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SALT LAKE CITY, UTAH

DECEMBER 1990

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STATUS REPORT  
REMEDiation WORK AND  
ROUND 5 LONG-TERM GROUND WATER QUALITY  
MONITORING DATA RESULTS  
FOR MAVERIK REFINERY TANK FARM  
KIRTLAND, NEW MEXICO  
FOR MAVERIK COUNTRY STORES, INC.

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DAMES & MOORE



**DAMES & MOORE**

OIL CONSERVATION DIVISION  
A PROFESSIONAL LIMITED PARTNERSHIP

127 SOUTH 500 EAST, SUITE 300, SALT LAKE CITY, UTAH 84102-1959 (801) 521-9255

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December 17, 1990

Oil Conservation Division  
State Land Office Building  
P.O. Box 2088  
Old Santa Fe Trail  
Santa Fe, New Mexico 87501

Attention: Mr. William Olson

Dear Bill:

Enclosed is a copy of the report, "Status Report Remediation Work and Round 5 Long-Term Ground Water Quality Monitoring Data Results for Maverik Refinery Tank Farm." Pertinent correspondence from the Oil Conservation Division (OCD) is included, and as per your request, the soil/sludge laboratory data and transportation manifests documenting the chemistry, volume and disposal of the excavated (contaminated) soil and sludge and the chemistry of the underlying soils remaining are included.

If you have any questions, please do not hesitate to contact us.

Very truly yours,

DAMES & MOORE

Peter F. Olsen  
Associate

Terry D. Vandell  
Senior Hydrogeologist

PFO/TDV:fl

cc: Mr. William Call  
Mr. Dave Tomko

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STATUS REPORT  
REMEDATION WORK AND ROUND 5  
LONG-TERM GROUND WATER QUALITY MONITORING DATA RESULTS  
FOR MAVERIK REFINERY AND TANK FARM  
KIRTLAND, NEW MEXICO  
FOR MAVERIK COUNTRY STORES, INC.

INTRODUCTION

This status report summarizes the remediation work completed to date at the Maverik Refinery and Tank Farm in Kirtland, New Mexico. A general site vicinity map and a location map which show the areas where remediation work has been conducted and the locations of the long-term ground water quality monitoring well sites are included on Plates 1 and 2, respectively. Laboratory data for and documentation of the soils and sludges excavated and the remaining underlying soils are included herein. All of the previous baseline (rounds 1, 2 and 3) and long-term (rounds 1-4) ground water quality monitoring data, and the September 1990 round 5 long-term monitoring data (including the results of duplicate ground water quality samples taken by the Oil Conservation Division [OCD]) are presented. Detailed ground water quality data and contaminant evaluations were presented in previous Dames & Moore reports completed in 1988 and 1989 as referenced.

PURPOSE AND SCOPE

The work completed from May through September 1990 was conducted in accordance with the Ground Water Stabilization Plan presented in the July 26, 1990 letter to William Olson of the OCD, with subsequent modifications which included the conditions outlined in the August 13, 1990 letter from William Olson to Dames & Moore (Appendix A). These modifications included the addition of one more monitor well located off-site west-northwest of the slurry wall; in-situ soil aeration and enhancement of biodegradation conditions in the unsaturated soil zone within the slurry wall area; and subsurface soil sampling and subsequent laboratory analyses of a subsurface soil sample taken from a borehole located off-site and downgradient from the refinery.

The work conducted to date, including this status report, completes the components of the Ground Water Stabilization Plan as shown on Plate 2. Long-term ground water quality monitoring of the 7 on-site and 5 off-site monitor wells will be used to determine the effectiveness of the slurry wall in containing shallow subsurface contamination on-site, and to monitor the water quality inside the slurry wall. All ground water quality data will continue to be submitted to the OCD for review.

Specifically, the work conducted since the August 1990 status report has included the following:

- o Sludge and contaminated soil excavation from 5 on-site locations. Contaminated materials were removed and transported to disposal sites mutually agreed upon by the State of New Mexico OCD and Maverik Country Stores, Inc. Transportation manifests and subsequent disposal records are documented herein. Representative composites of the residual soils were taken from the base and sides of the excavated sites for laboratory analysis of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and xylene (BTEX), and the 8 EP-Toxic metals.
- o Collection of an off-site soil sample taken about 200 feet south of the refinery and about 400 feet west of the tank farm at a depth of 9.5 to 10 feet for submittal for laboratory analysis of pH, sulfide and cyanide reactivity, BTEX and leachable metals via the EP-tox test.
- o Soil aeration and enhancement of biodegradation conditions by fertilization and wetting of the upper 3 feet of unsaturated surficial soils within the slurry wall area in the southwestern corner of the tank farm.
- o Completion of 7 new monitor wells at locations mutually agreed upon by Dames & Moore and the OCD. Six new monitor wells were located on-site and one was located off-site.
- o Laboratory analysis and data evaluation for round 5 long-term ground water quality monitoring. Splits of selected water quality samples were taken by the OCD.
- o Completion and submittal of this written report to the OCD in compliance with the long-term monitoring requirements.

## REMEDIATION WORK

### SOIL/SLUDGE EXCAVATION AND REMOVAL

Contaminated sludge and soil located on-site at 5 designated locations at the tank farm (Plate 2) were excavated in August and September 1990 by Flint Engineering & Construction Company, Farmington, New Mexico. The work was directed by a Dames & Moore geologist. This material was disposed of at the Envirotech Disposal Site near Bloomfield, New Mexico and at the Conservation Services Incorporated (CSI) site near Bennett, Colorado. The transportation manifests and final invoices which document the volumes of material removed from each site and subsequent disposal locations are included in Appendix B. Results and a brief discussion of the laboratory test results for the soils and sludges that were excavated and removed are included in Appendix C.

As stipulated by the OCD, the sludge and upper 4-inches of underlying soil at the Eastern Sludge Pit were disposed of at CSI. Based on the laboratory data for this sludge and underlying soil, there was no indication that these materials were hazardous. However, because the source of the sludge could not be documented conclusively, the OCD required disposal of this material to CSI. A total of 140 cubic yards of sludge and soil were removed from the Eastern Sludge Pit and disposed of at CSI as a non-hazardous waste.

A total of 1,296 cubic yards of contaminated soils and sludges were removed from the other 4 sites located adjacent to the tanks (Plate 2). These contaminated materials were disposed of at Envirotech's soil remediation site near Bloomfield, New Mexico.

Based on field observations, the lateral extent of the excavations and the volumes of material excavated from Sites 1-5, the average depths of the excavations at each of the 5 sites were about 4 feet at Site 1, 3 feet at Site 2, 10 feet at Site 3, 1 foot of sludge (including the underlying 4-inches of contaminated soil) and 2 feet of underlying soil at Site 5. The initial estimate of the total volume of soil and sludge to be excavated and subsequently removed was about 350 cubic yards. However, the extent of soil contamination both laterally

and vertically was more extensive and required the removal of an additional 946 cubic yards (for a total of 1296 cubic yards) to the Envirotech Disposal Site.

Following excavation, composited shallow soil samples were taken from each of the 5 sites. The samples were composited from at least 10 different locations on the bottom and sides within each of the excavated sites. The samples were analyzed for TPH, BTEX and the 8 RCRA metals via the EP-Toxic Characteristic Leaching Test. The results are included in Appendix D, Table D-1. The results indicate that the residual soils are within the OCD's criteria for total BTEX. The OCD requires additional clean-up if the concentration of BTEX is greater than 50 ppm. Benzene was not detected ( $< .05$  mg/kg) in any of the samples, and concentrations of ethylbenzene, toluene and xylene were very low and were generally near or at detection limits. Xylene was detected at all of the sites except site 1, with the highest concentration of 34 ug/kg detected at site 3. Concentrations of the leached metals in the soils taken from the 5 sites were below detection limits except for barium. It was detected in all of the samples but at very low concentrations ranging from 0.9 to 1.2 mg/l.

Elevated concentrations of TPH were detected at all five of the sites, with the highest concentrations detected at sites 2 and 3 at 21,000 mg/kg. The TPH concentration at site 1 measured 2,100 mg/kg, at site 4, 2,400 mg/kg, and at site 5, 11,000 mg/kg. As discussed in the Dames & Moore June 1988 Phase II Soils and Solid Waste Report for the subsurface soil and solid waste on-site, high concentrations of semivolatile organics (including bis (2-ethylhexyl) phthalate, 1-methyl-naphthalene, naphthalene, phenanthrene and chrysene) were detected in soils/sludges in the northwest corner and in the Eastern Sludge Pit. The elevated levels of TPH are the result of these heavy end products (oils) associated with product from the stove, fuel and crude oil tanks.

Although the OCD's criteria for soil clean-up is 100 ppm TPH, due to the low solubilities of these heavy end products, they are probably not a significant threat to the underlying ground water. Analytical results for semivolatile organics in the ground water (Dames & Moore, January 1989) indicated that of the 8 monitor wells that were tested in October 1988, the concentrations of semivolatiles were below the (low) detection level of 10 ug/l, except in MW-12.

Napthalene and m,p cresols were detected in MW-12 at very low levels of 33 ug/l and 11 ug/l, respectively. MW-12 was located within the current slurry wall boundaries, near the site of current MW-22.

#### ON-SITE SOIL TREATMENT

Based on the results of the biodegradation feasibility study conducted previously, (see Dames & Moore, Appendix B, February 1990) it was determined that nitrogen and phosphorous were the key nutrients limiting biological growth in the hydrocarbon-contaminated soils at the Maverik-Kirtland tank farm site. Consequently, as part of the remediation work, in August 1990 the upper 3 feet of the unsaturated soils located within the slurry wall were excavated and turned (aerated) using D-6 dozers and backhoes. The soils were then fertilized with 4,000 pounds of ammonium phosphate, aerated again and in September 1990, the upper 6 to 8 inches of soil were saturated with about 11,000 gallons of water obtained from the Lower Valley Water Users Association (see Appendix B for water source and volume documentation). The water was obtained from one of the on-site fire hydrants.

Ammonium phosphate was one of the additives that had been recommended to supply the nutrients required to enhance biodegradation. The 4,000 pounds of ammonium phosphate supplied about 500 pounds of nitrogen and 260 pounds of phosphorous. The amount of fertilizer applied was a balance between the theoretical amount required for complete biodegradation of the petroleum hydrocarbons in the unsaturated zone and field application considerations. Such considerations included the dissolution of the fertilizer in amounts that would exceed the rate at which the nutrients would be utilized by the microbes, and subsequent losses by leaching, volatilization or nitrification. Approximately 11,000 gallons of water were added over a two day period. Ponding was kept at a minimum. Additional water from snowmelt this spring should aid in supplying the water required for biodegradation and for dissolution of the nutrients.

Prior to soil fertilization but immediately after the soil had been aerated, three composited shallow soil samples from 10 sample points at depths to 6 inches were taken from the northern (SW-1N), central (SW-2C) and southern

(SW-3S) parts of the area enclosed by the slurry wall. Laboratory analytical tests for total petroleum hydrocarbon (TPH) contamination were conducted (Appendix D, Table D-1). The results indicate that the TPH concentration of the composited soil sample taken in the southern part of the slurry wall area was low (<10 mg/kg); the composited sample taken from the central part of the slurry wall area had an elevated TPH concentration of 370 mg/kg; and the composited soil sample taken from the northern part had a TPH concentration of 50 mg/kg.

#### NEW MONITOR WELL CONSTRUCTION AND WATER LEVEL DATA

Seven new shallow monitor wells ( ranging in depths from 12 to 15 feet to the top of the first clay zone) were constructed in September 1990 using a hollow stem auger drilling rig (Plate 2). The locations of these wells were approved by the OCD prior to drilling. The new monitor well construction details and well logs are presented in Appendix E. The drill cuttings and split spoon samples indicated, as have all of the previous drill hole data, that the upper zone of the shallow water table aquifer consists of a silty-clayey very fine sand which is underlain by a silty clay zone. The continuity and thickness of the underlying clay were documented prior to slurry wall construction. This information was presented in the previous Dames & Moore report (August 1990).

Six of these new monitor wells were completed on-site, two of which (MW-17 and MW-22) were completed for the purpose of monitoring water quality changes in the upper shallow zone within the slurry wall. These two new wells replaced the shallow monitor wells (MW-12 and the 3 shallow aquifer pump test wells) that had to be grouted in the spring of 1990, prior to slurry wall construction. On-site monitor well MW-18 was completed about 60 feet north of the slurry wall to monitor ground water quality outside and immediately upgradient of the slurry wall. Monitor well MW-21 was located about 20 feet east and outside of the slurry wall boundary to monitor ground water quality and the potential for contaminant migration around the eastern boundary of the slurry wall. The two new on-site monitor wells (MW-20 and MW-19) were completed about 70 feet south of the eastern and western corners of the slurry wall, respectively, to monitor along with existing MW-10, the ground water quality on-site and immediately downgradient of the slurry wall.

Monitor well MW-16 was completed off-site, about 90 feet west of and about 120 feet south of the northwestern corner of the slurry wall to monitor potential ground water contaminant migration around the northwestern edge of the slurry wall.

A water level elevation contour map (Plate 3) was completed based on water level data obtained in September 1990 from 6 of the 7 new monitor wells (MW-19 water level was measured but the measurement inadvertently was not recorded), and the 5 existing long-term monitor wells (MW-9, 10, 13, 14 and 15). Because water levels in MW-1 and MW-2 were not measured at this time, water level elevation data obtained previously (in October 1988) from MW-1 and MW-2 were considered in the construction of this contour map. The water level elevation contours are similar to those observed previously (see Dames & Moore, January 1989 Plate A-1), and indicate a hydraulic gradient to the south-southwest of about 0.01 ft/ft across the site. This is also equivalent to the topographic gradient across the site. The hydraulic gradient appears to be slightly steeper (about 0.02 ft/ft) off-site towards the west. This may be due in part to recharge to the ground water from irrigation flow seepage from the Farmer's Mutual Irrigation Ditch, and also the result of a slightly steeper topographic gradient of .02 ft/ft in this area.

Based on the September 1990 water level elevation data, there was not a significant difference in the hydraulic gradient over the site since the construction of the slurry wall 3 months earlier in June 1990. The hydraulic gradient from MW-18 (north of the slurry wall) to MW-17 (within the slurry wall) was about .01 ft/ft; the hydraulic gradient within the slurry wall (from MW-22 to MW-17) was about .012 ft/ft; and the hydraulic gradient from within the slurry wall towards the southwest (from MW-17 to MW-13) was about 0.013 ft/ft. The hydraulic gradient on-site may, as water levels within the slurry wall equilibrate, change over time. However, as it has been shown in previous studies (Dames & Moore, February 1988), although the clay zone into which the slurry wall is keyed and which underlies the upper silty-clayey, fine sand zone is continuous throughout this area, there is some hydraulic connection between the upper sand zone and lower (gravel) zone. This hydraulic connection, although limited, may continue to influence the water levels within the slurry wall.



The historic water level elevation data from MW-11 and MW-12 indicated small water level elevation differences of .12 to .27 feet between the two wells. A distinct vertical hydraulic gradient could not be established because the water level elevation gradients fluctuated (i.e., the level in MW-12 exceeded that in MW-11 twice and the level in MW-11 exceeded that in MW-12 once) during the period of data collection from November 1987 through October 1988.

Although there may be a limited hydraulic connection which could continue to influence ground water levels within the slurry wall, the slurry wall should still be effective in controlling subsurface contaminant movement through the shallow aquifer. The water quality data obtained from the monitor wells located adjacent to and immediately downgradient from the slurry wall should help to determine the wall's effectiveness. Additional water level and water quality data will continue to be obtained in all of the on-site monitor wells (including MW-1 and MW-2), and in additional off-site monitor wells (W-1, MW-8, MW-7, MW-3, MW-6 and MW-5) located to the south and southwest further downgradient from the site. This data will also serve to document the effectiveness of the slurry wall in containing the on-site contaminants.

#### LONG-TERM GROUND WATER QUALITY MONITORING, ROUND 5

##### INTRODUCTION

The long-term ground water quality monitoring program agreed to by the EID (and subsequently by the OCD) was initiated in April 1989 with the completion of the Round 1 long-term ground water quality sampling and analyses. The plan required triannual, biannual and annual monitoring of one on-site and four off-site monitor wells over a three-year period (1989-1991), respectively. However, as a result of changes to the original site remediation plan (i.e., construction of a slurry wall to contain contaminants rather than implementation of ground water pumping and treating), to document the effectiveness of the slurry wall, ground water monitoring was expanded to include 7 on-site and 5 off-site monitor wells.

Semiannual monitoring includes obtaining static ground water levels, conducting field analytical tests for pH, conductivity and temperature, and labora-

tory analysis for volatile organics, (aromatic and halogenated), total dissolved solids, sulfate and chloride in these 12 monitor wells (Table 1). As discussed in Appendix F, Rocky Mountain Analytical Laboratory in Arvada, Colorado (an EPA contract laboratory) has conducted the analyses of the ground water samples taken by Dames & Moore.

The concentrations of the inorganic constituents and the detected organic constituents from the September 1990 (Round 5) sampling are presented in Tables 2 and 3, respectively. Isoconcentration contour maps which show the results of the Round 5 water quality monitoring and the spatial distribution of the total dissolved solids, sulfate, chloride, 1-2 dichloroethane, benzene, toluene, ethylbenzene, and total xylene concentrations in the shallow ground water flow system are presented in Appendix F, Plates F-1 through F-8. In addition, the OCD (Bill Olsen) took duplicate water quality samples from on-site monitor wells MW-10 and MW-19, and from off-site monitor wells MW-14, MW-16 and MW-19. These duplicate samples were analyzed for aromatic and halogenated volatile organic parameters by Inter-Mountain Laboratories, Inc. (IMLI), Farmington, New Mexico. EPA methods 8010 and 8020 were used. These results are presented in the October 16, 1990 letter from the OCD (see Appendix A) and are discussed below.

The field and laboratory water quality data for the selected monitor wells for rounds 1, 2, 3, 4 and 5 long-term remediation monitoring and, as previously mentioned, comprehensive data from prior sampling rounds 1, 2 and 3 for wells MW-9, MW-10 and MW-13 are also presented in Tables F-1 and F-2 in Appendix F. The laboratory water quality data report for round 5 is also included in Appendix F. Although MW-13 still has a drop pipe in it due to previously observed free product, no free product was observed during Round 5 sampling. The drop pipe was, however, placed back into MW-13 after purging and prior to sampling. Although strong hydrocarbon odors were detected in MW-17 and MW-22, free product was not observed.

As presented and discussed herein, there are wide variations and some elevated concentrations of inorganic constituents both on and off-site. However, the number and concentrations of the organic constituents detected on-site out-

side of the slurry wall boundaries and downgradient in the off-site monitor wells are small and remain at, or continue to decrease to, near detection limits.

To account for seasonal fluctuations, the water quality data from Round 5 were compared to the August 1989 Round 2 long-term water quality monitoring data.

#### INORGANIC CONSTITUENTS

##### On-Site

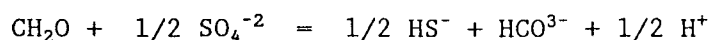
The ground water quality in the shallow aquifer within the slurry wall and in the highly contaminated area on-site (MW-17 and MW-22) is similar to that observed previously in the shallow monitor wells (MW-12 and the northern pump test observation well) which were located within the slurry wall area and which were sampled in 1987, 1988 and 1990, (see previous Dames & Moore reports, January 1989 and March 1990).

Compared to the surrounding ground water quality at the new upgradient monitor well MW-18, and at MW-21 and MW-16 (off-site) located east and west of the slurry wall, respectively, the TDS and chloride concentrations inside the slurry wall are elevated and sulfate concentrations are low. TDS, sulfate and chloride concentrations were measured in MW-17 at 2,160 mg/l, 27.3 mg/l and 401 mg/l, respectively, and in MW-22 at 1,300 mg/l, 17.5 mg/l and 216 mg/l, respectively. The water quality in MW-22 (located about 130 feet north-northeast of MW-17) appears to be slightly better than that in MW-17.

Since monitoring began in 1987, the TDS concentration has increased in the area southwest and downgradient of the slurry wall and the site (Plate F-1). This is because this entire zone, (downgradient from the refinery and tank farm to the southwest to the San Juan River) is a ground water discharge zone. Concentrations of TDS in the on-site wells immediately downgradient from the slurry wall (MW-19, MW-10 and MW-20) are similar to the TDS concentrations found within the slurry wall, (Plate F-1).

The low sulfate concentrations observed within the slurry wall (in MW-12, the northern observation well and now observed in MW-17 and MW-22) indicate (as

discussed in the previous March 1990 Dames & Moore report), that reduction-oxidation (redox) processes from bacterial microorganisms (such as sulfate reduction that occurs in the latter phase of the redox hierarchy) that oxidize organic matter and reduce inorganic compounds in the ground water are occurring in the shallow ground water in this area confined by the slurry wall. As discussed in our March 1990 report, the main source of energy for the bacteria is the oxidation of organic matter. The equation that defines such sulfate reduction is:



Sulfate concentrations in the on-site wells immediately downgradient from the major contaminant plume are much higher than those measured inside the slurry wall (17.5 and 27.3 mg/l). Specifically, sulfate concentrations outside of and downgradient from the slurry wall range from 292 mg/l in MW-19 to 650 mg/l in MW-20.

Chloride concentrations in the ground water within and immediately downgradient of the slurry wall also appear to be slightly elevated as compared to the surrounding ground water. Chloride concentrations in MW-12 were 321 and 360 mg/l in 1987 and 1988, respectively. Chloride concentrations in September 1990 in MW-17 and MW-22 were measured at 401 and 216 mg/l, respectively. The chloride concentration in MW-19 (located southwest of the slurry wall) measured 620 mg/l in September 1990. Elevated chloride concentrations have also been detected off-site to the southwest. The background concentration for chloride is difficult to determine however, due to the large spatial and temporal variations in the concentration. This variation is believed to be primarily due to ground water discharge towards the southwest in the direction of MW-17 and MW-19. A detailed discussion of the variation in chloride concentration was presented in a previous Dames & Moore report (June 1988).

The TDS, sulfate and chloride concentrations at MW-10 (located south of the slurry wall and monitored since November 1987) have generally remained about the same and are slightly lower than in August 1989. The September 1990 concentrations for TDS, sulfate and chloride at MW-10 were 952, 436 and 38.9 mg/l, respec-

tively, as compared to the August 1989 concentrations of these constituents at 990, 470 and 45 mg/l, respectively. The water quality data from MW-10 indicate that there have not been significant ground water quality changes in the concentrations of the inorganic constituents to the south (about 150 feet) of the slurry wall.

#### Off-Site

Comparison of the inorganic parameter concentrations in the ground water off-site to that on-site is best illustrated by the isoconcentration maps (Plates F-1, F-2 and F-3). The contour maps for TDS and sulfate show that the concentrations of these constituents increase to the south and southwest away from the tank farm. In September 1990, the highest TDS concentration measured on-site was at MW-19 (at 2,210 mg/l), and off-site it was at MW-14 (at 3,920 mg/l). The highest sulfate concentration on-site was at MW-10 (at 436 mg/l) and off-site it was at MW-14 (at 2,080 mg/l).

Concentrations of chloride, however, appear to higher on-site as compared to off-site. The highest chloride concentration observed on-site was at MW-19 (at 620 mg/l), and off-site at MW-14 (at 174 mg/l).

In comparison to the August 1989 water quality data for existing off-site monitor wells MW-9, MW-13, MW-14 and MW-15, the concentrations of TDS, sulfate and chloride have generally remained stable or increased slightly, with the largest increases in TDS, sulfate and chloride concentrations occurring in MW-14. MW-14 is located about 80 feet west of and approximately midway along the western edge of the slurry wall. Historically, the water quality in MW-14 has always fluctuated more than in any of the other off-site monitor wells.

Although concentrations of the inorganic constituents in the off-site wells have generally increased in comparison to the August 1989 water quality data (Table 2), the September 1990 concentrations of these constituents in all of the existing off-site monitor wells are still well below the maximum concentrations that have been measured previously. In addition, because these wells are located in a ground water discharge zone that is also affected by irrigation ditch water

recharge from the Farmers Mutual Irrigation Ditch, (and until April 1989 by waters from the Westside Irrigation Ditch), large variations in the concentrations of these inorganic parameters in the shallow ground water aquifer are not unexpected.

The water quality in newly constructed MW-16 (which is located upgradient from all of the other off-site monitor wells), appears to be better than that observed in any of the other off-site monitor wells at any previous time. This is probably due to the location of MW-16. MW-16 is slightly upgradient and just north of the ground water discharge zone. This particular zone is defined by near to surface ground water discharge. Such discharge has been verified by ground water levels measured at depths of only .35 foot from ground surface in MW-13 (Table F-1), and the presence of evaporite deposits on the ground surface.

#### ORGANIC CONSTITUENTS

##### On-Site

The laboratory results from RMAL for the organic constituents detected in the September 1990 round 5 and previous rounds 1, 2, 3 and 4 long-term monitoring, and in the three previous rounds for the five organic constituents detected (including halogenated and aromatic volatile organics) are presented in Table 3. The isoconcentration maps which show the concentrations of these constituents are included in Appendix F, Plates F-4 through F-8. The organic constituents that have been detected on-site are 1,2 dichloroethane (1,2-DCA), benzene, toluene, ethylbenzene and xylene (BTEX).

The September 1990 water quality laboratory analytical results indicate that high concentrations of 1,2-DCA, benzene, toluene, ethylbenzene and xylenes are present in the shallow aquifer within the slurry wall (in MW-17 and MW-22) and that these concentrations are similar to those concentrations found previously (from 1987 through 1990) in MW-12 and in the northern observation well (see Dames & Moore, March 1990). The concentrations of 1,2-DCA, benzene, toluene, ethylbenzene and xylenes in MW-17 and in MW-22 in September 1990 were 360 and 7,200 ug/l; 11,000 and 21,000 ug/l; 15,000 and 20,000 ug/l; 1,600 and

1,100 ug/l; and 13,000 and 8,300 ug/l, respectively. With respect to 1,2-DCA, benzene and toluene, the water quality in MW-17 is significantly better than in MW-22, and the concentrations of ethylbenzene and total xylenes are about the same in both wells.

As illustrated on Plates F-4 through F-8, 1,2-DCA and benzene were also detected at elevated concentrations on-site, outside of the slurry wall. Elevated 1,2-DCA concentrations of 45 ug/l and 67 ug/l were detected by RMAL in MW-19 (south-southwest of the slurry wall) and in MW-21 (east of the slurry wall). The duplicate sample from MW-19 (taken by the OCD and analyzed by IMLI, (see Appendix A) did not however indicate that 1,2-DCA was present in MW-19 at concentrations above the detection level of 10 ug/l. Such discrepancies are not uncommon at low constituent concentrations.

Laboratory data from RMAL indicated that benzene was detected on-site outside of the slurry wall only in MW-18 (upgradient of the slurry wall) at a concentration of 17 ug/l. The elevated benzene concentration detected in MW-18 was likely due to historic surficial spills and sludge disposal in the area north of the slurry wall. Data obtained from IMLI, however indicated that benzene was also detected in MW-19, but at a very low concentration of 0.6 ug/l (near the detection limit of 0.2 ug/l). The New Mexico MCL's for drinking water for both 1,2-DCA and benzene are 10 ug/l.

Elevated concentrations of 1,2-DCA detected outside but within 70 feet south (MW-19) and 30 feet east (MW-21) of the slurry wall are not unexpected due to the high solubility of 1,2-DCA in water (see Table 4). Since 1987 1,2-DCA has been the key indicator parameter used for monitoring on-site ground water contamination from the leaded gasoline spill, and related contaminant migration from the tank farm to private water wells and to off-site monitor wells.

Organic constituents were also detected on-site at MW-10, MW-18, MW-19 and MW-21 but at very low to near detection concentration levels. 1,2-DCA was detected in MW-10 at 1.4 ug/l; total xylenes were detected in MW-18, MW-19 and MW-21 at 880 ug/l, 1.9 ug/l and 5.0 ug/l, respectively; ethylbenzene was detected in MW-18, MW-19 and MW-21 at 84 ug/l, 1.1 ug/l and 1.1 ug/l, respectively; and

toluene was detected in MW-21 at 1.5 ug/l. All of these concentrations are (with the exception of total xylenes in MW-18 of 880 ug/l) very low, well below the levels established for New Mexico drinking water quality. The New Mexico drinking water level for total xylenes is 620 ug/l, and the EPA proposed MCL is 10,000 ug/l.

Based on the IMLI laboratory results obtained from the duplicate samples taken at MW-19 and MW-10 on-site, BTEX concentrations in MW-19 were measured at near detection levels of 0.6 ug/l, 0.7 ug/l, 0.5 ug/l and 2 ug/l, respectively, and only m,p xylene was detected in MW-10 but at a very low concentration of 0.6 ug/l.

#### Off-Site

As shown on the isoconcentration maps Plates F-4 through F-8, with the exception of trace concentrations of 1,2-DCA detected within 200 feet of the southwestern corner of the tank farm, there does not appear to be off-site contamination of the shallow ground water aquifer as a result of ground water contamination at the tank farm. 1,2-DCA was detected in two off-site monitor wells MW-14 and MW-9 at near detection concentrations of 2.0 and 2.1 ug/l, respectively. The duplicate samples analyzed by IMLI however, did not indicate the presence of 1,2-DCA above the detection limit of 1.0 ug/l. All other concentrations of 1,2-DCA in the off-site monitor wells were below the detection level of 1.0 ug/l.

The only other organic constituent detected by RMAL in the off-site monitor wells was toluene. It was detected in MW-13 at a very low concentration of 1.5 ug/l. The detection level for toluene was 0.5 ug/l.

Very low (near detection limits) concentrations of organics were detected in the duplicate samples taken from MW-16 and analyzed by IMLI. These included toluene at 0.6 ug/l, ethylbenzene at 0.4 ug/l, and total xylenes at 2.8 ug/l.

In comparison to the August 1989 water quality data and historic water quality data for the off-site monitor wells, the concentrations of the organic



constituents detected off-site continue to be very low and are at or near detection levels.

In addition, a ground water sample collected from the Walker well in April 1990 by Bill Olson of the OCD (Appendix A) indicated that only a trace of 1,2-DCA was detected and that the concentration was below the detection limit of 1 ug/l.

#### OFF-SITE SUBSURFACE SOIL SAMPLE

At the request of the OCD (Bill Olson) a subsurface soil sample was taken off-site (at a depth of 9.5 to 10 feet) in the pasture to the west of the tank farm and south of the refinery (Plate 2). The laboratory analytical results are included in Appendix G. The constituents detected are presented in Table G-1 and as indicated, although some volatile organics (toluene, ethylbenzene and xylene) were detected, they were detected at very low concentrations. The results of the TCLP test and characteristic tests for reactivity and corrosivity also indicate that the soil sample is not hazardous.

#### CONCLUSIONS AND RECOMMENDATIONS

These summary conclusions and recommendations are based on the remediation work and all of Dames & Moore's previous work conducted at the Maverik Refinery Tank Farm since 1987.

- o The historic ground water quality data and recent round 5 long-term ground water quality monitoring indicate that 1,2-DCA and BTEX concentrations in the shallow aquifer on-site within the slurry wall are high, and that elevated concentrations of benzene are present immediately to the north, and 1,2-DCA immediately to the southwest and east of the slurry wall.
- o The ground water quality data indicate that 1,2-DCA is the only organic contaminant that has and is consistently found downgradient of the tank farm, but it is found at very low (near detection) levels. In September 1990 1,2-DCA was detected off-site in only two monitor wells at concentrations of 2.0 and 2.1 ug/l, below New Mexico and EPA MCL's for drinking water. The wells are within 200 feet of the southwest corner of the tank farm.

- o Over the past two years, on-site and off-site surface and subsurface tank farm-related contamination has been cleaned up and controlled. Ground water monitoring data verify that contaminant migration off-site is minimal and is not a threat to public health or the environment. Specifically, the remediation work, the controls and monitoring that have been implemented have included the following:
  - Free-product from the on-site shallow ground water aquifer was removed via pumping from an on-site interceptor trench;
  - Major contaminant source areas have been eliminated (i.e., the sludge in the storage tanks has been removed and the tanks cleaned, and sludge and heavily contaminated soils have been excavated and removed from the site);
  - Westside Irrigation Ditch waters were piped to eliminate the potential for contaminant seepage migration off-site into irrigation waters;
  - Six on-site monitor wells were grouted to prevent potential ground water contamination during slurry wall construction;
  - A slurry wall was constructed in June 1990 to contain the highly contaminated shallow ground water on-site;
  - Seven (7) new monitor wells, strategically placed to monitor the ground water within and surrounding the slurry wall were constructed, and along with the 5 existing monitor wells, have and will be monitored semiannually as part of an "Early Warning" ground water monitor system to ensure the early detection of potential contaminant migration away from the slurry wall. In addition, on-site upgradient monitor wells MW-1 and MW-2, and downgradient off-site monitor wells W-1, MW-8, MW-7, MW-3, MW-6 and MW-5 will be measured for water level elevation data and on an annual basis will be sampled for the same constituents as the other monitor wells. This includes field analytical tests for pH, conductivity and temperature, and laboratory water quality analysis for TDS, sulfate, chloride, 1,2-DCA and BTEX.
- o At this time, rather than trying to implement in-situ ground water remediation within the slurry wall area (i.e. via air sparging and/or soil venting), we recommend that ground water quality monitoring be continued on a semiannual basis to evaluate the effectiveness of the slurry wall and sludge removal in controlling and reducing ground water contamination. If contaminants outside the slurry wall or off-site should show significant increases in concentration, resampling and additional remediation action should then be considered.

Based on the ground water quality data on-site in the highly contaminated area inside the slurry wall, biodegradation of the organic constituents is and has been occurring. This has been documented since monitoring started in 1987. Although such degradation is slow, as discussed in previous Dames & Moore reports, the low permeability of the contaminated shallow aquifer (which consists of clayey-silty fine sands) is not conducive to active remediation. If the remediation work completed to date is effective in controlling off-site contamination, we recommend that monitoring continue and that natural biodegradation serve as the long-term mechanism for further on-site remediation within the slurry wall.

## REFERENCES

- Dames & Moore, February 1988. Phase I Hydrogeologic Evaluation, Maverik Refinery and Tank Farm, Kirtland, New Mexico.
- Dames & Moore, June 1988. Addendum to Phase I Hydrogeologic Evaluation, Maverik Refinery and Tank Farm, Kirtland, New Mexico.
- Dames & Moore, June 1988. Phase II Subsurface Soil and Solid Waste Contaminant Evaluation For Maverik Refinery and Tank Farm, Kirtland, New Mexico.
- Dames & Moore, September 14, 1988. Ground Water Remediation Plan For Maverik Country Stores, Inc., Kirtland, New Mexico Refinery Tank Farm.
- Dames & Moore, January 1989. Water Quality Data Summary Report For Completion of the Hydrogeologic Evaluation, Maverik Refinery and Tank Farm, Kirtland, New Mexico For Maverik Country Stores, Inc.
- Dames & Moore, July 1989. Status Report, Remediation Work, Aquifer Pump Test and Round 1 Long-Term Ground Water Quality Monitoring Data Results For Maverik Refinery and Tank Farm, Kirtland, New Mexico, For Maverik Country Stores, Inc.
- Dames & Moore, August 8, 1989. Amended Ground Water Remediation Plan.
- Dames & Moore, February 1990. Status Report, Remediation Work and Round 3 Long-Term Ground Water Quality Monitoring Data Results For Maverik Refinery and Tank Farm, Kirtland, New Mexico, For Maverik Country Stores, Inc.
- Dames & Moore, March 1990. On-Site Ground, Surface Water and Sludge Laboratory Analytical Data and Modified Ground Water Remediation Plan For Maverik Tank Farm Kirtland, New Mexico For Maverik Country Stores, Inc.
- Dames & Moore, August 1990. Status Report, Remediation Work and Round 4 Long-Term Ground Water Quality Monitoring Data Results For Maverik Refinery and Tank Farm, Kirtland, New Mexico, For Maverik Country Stores, Inc.
- EPA, October 1986. Superfund Public Health Evaluation Manual, EPA 540/1-86/060.

TABLE 1

LONG-TERM MONITORING  
LABORATORY WATER QUALITY PARAMETERS

General Inorganics

Chloride  
 Sulfate  
 Total Dissolved Solids

Halogenated Volatile Organics  
 EPA Method 601

Chloromethane  
 Bromomethane (Methylbromide)  
 Vinyl chloride  
 Chloroethane  
 Methylene chloride  
 1,1-Dichloroethene  
 1,1-Dichloroethane  
 1,2-Dichloroethene (cis/trans)  
 Chloroform  
 1,1,2-Trichloro-2,2,1-trifluoroethane  
 1,2-Dichloroethane  
 1,1,1-Trichloroethane  
 Carbon tetrachloride  
 Bromodichloromethane  
 1,2-Dichloropropane  
 trans-1,3-Dichloropropene  
 Trichloroethene  
 Chlorodibromomethane  
 cis-1,3-Dichloropropene  
 1,1,2-Trichloroethane  
 EDB (1,2-Dibromoethane)  
 Bromoform  
 1,1,2,2-Tetrachloroethane  
 Chlorobenzene

Aromatic Volatile Organics  
 EPA Method 602

Benzene  
 Toluene  
 Chlorobenzene  
 Ethylbenzene  
 Total Xylenes  
 1,3-Dichlorobenzene  
 1,4-Dichlorobenzene  
 1,2-Dichlorobenzene

Note: For detail of methodology see ENSECO's (RMAL) attached report (Appendix F )

TABLE 2

LABORATORY RESULTS FOR MAJOR IONS, ROUND 5  
LONG-TERM MONITORING, (AND PRIOR ANALYTICAL DATA RESULTS)  
FOR MAVERIK COUNTRY STORES, REFINERY TANK FARM, KIRTLAND, NEW MEXICO

Sample Site Designation <sup>(1)</sup>	TDS <sup>(2)</sup> (mg/l)		(Long-Term)					Sulfate <sup>(2)</sup> (mg/l)		Long-Term					Chloride <sup>(2)</sup> (mg/l)		Long-Term				
	1,000							600							250						
	1	2	1	2	3	4	5	1	2	1	2	3	4	5	1	2	1	2	3	4	5
<b>Wells</b>																					
<b>On-Site</b>																					
MW-10	1,240'	2,725'	2,310'	990	910	1,300'	952	568	1,640'	1,190'	470	404	577	436	46	191	146	45	34	72	38.9
MW-18	-	-	-	-	-	-	682	-	-	-	-	-	-	67.1	-	-	-	-	-	-	43.8
MW-19	-	-	-	-	-	-	2,210'	-	-	-	-	-	-	292.	-	-	-	-	-	-	620.
MW-20	-	-	-	-	-	-	1,310'	-	-	-	-	-	-	650.	-	-	-	-	-	-	45.9
MW-21	-	-	-	-	-	-	917	-	-	-	-	-	-	386	-	-	-	-	-	-	78.4
<b>Inside Slurry Wall</b>																					
MW-17	-	-	-	-	-	-	2,160'	-	-	-	-	-	-	27.3	-	-	-	-	-	-	401
MW-22	-	-	-	-	-	-	1,300'	-	-	-	-	-	-	17.5	-	-	-	-	-	-	216
<b>Off-Site</b>																					
MW-9	1,520'	2,160'	1,420'	1,200'	1,260'	1,190'	1,140'	863'	1,510'	727'	624'	638'	574	551	43.	81	39	37	38	35	35.4
MW-13	3,700'	1,850'	2,480'	2,660	3,580'	2,890'	3,040'	1,980'	920'	1,350'	1,350'	1,890'	1,480'	1,630'	257.	82	94	78	170	112	140
MW-14	-	-	6,140'	2,560'	2,620'	3,980'	3,920'	-	-	3,320'	1,360'	1,370'	2,120'	2,080'	-	-	406'	114	116	202	174
MW-15	-	-	2,360'	1,900'	2,940'	4,320'	2,540'	-	-	1,220'	1,030'	1,720'	2,750'	1,380'	-	-	178	139	204	347'	163
MW-16	-	-	-	-	-	-	867	-	-	-	-	-	-	292	-	-	-	-	-	-	27.6

## Footnotes:

(1) Data from Rounds 1 and 2 and from Rounds 1, 2, 3 and 4 long-term monitoring are presented for each sample site in subsequent columns, respectively.

(2) (Round 1) Sampled November 10-27, 1987  
(Round 2) Sampled February 22-24, 1988  
(Round 3) Sampled October 12-13, 1988 no laboratory analysis for inorganics)  
(Round 4) Long-Term Monitoring, sampled April 27, 1989 and May 4, 1989  
(Round 5) Long-Term Monitoring, sampled August 10, 1989  
(Round 6) Long-Term Monitoring, sampled December 12, 1989  
(Round 7) Long-Term Monitoring, sampled May 2, 6, 1990  
(Round 8) Long-Term Monitoring, sampled September 13, 14, 1990  
\* Exceeds New Mexico MCL For Drinking Water.  
- Indicates not analyzed



TABLE 3 (Continued)

Sample Site Designation <sup>(1)</sup>	Toluene <sup>(2)</sup> (ug/l)					Benzene <sup>(2)</sup> (ug/l)									
	750					10									
	2,000 <sup>(3)</sup>					5									
Rounds	(Long-Term)					(Long-Term)									
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
<b>Wells</b>															
<b>On-Site</b>															
MW-10 <sup>(2)</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-18	-	-	-	-	-	<12	-	-	-	-	-	-	-	-	<0.5
MW-19	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5
MW-20	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5
MW-21	-	-	-	-	-	1.5	-	-	-	-	-	-	-	-	<0.5
<b>Inside Slurry Wall</b>															
MW-17	-	-	-	-	-	15,000	-	-	-	-	-	-	-	-	11,000
MW-22	-	-	-	-	-	20,000	-	-	-	-	-	-	-	-	21,000
<b>Off-Site</b>															
MW-9 <sup>(2)</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-13 <sup>(2)</sup>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-14 <sup>(2)</sup>	-	-	-	-	-	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-15 <sup>(2)</sup>	-	-	-	-	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-16	-	-	-	-	-	<0.5	-	-	-	-	-	-	-	-	<0.5

**Footnotes:**

- (1) Data from each round are presented for each sample site in consecutive columns.  
 (2) Constituents for long-term monitoring, from designated wells as indicated.  
 (3) EPA proposed MCL's and MCLG's (May 22, 1989).  
 The values indicated as less than (<) are detection limits only, and not actual concentrations.  
 - Indicates not analyzed.  
 \* Exceeds New Mexico MCL for drinking water.



TABLE 4

CHARACTERISTICS OF ORGANIC COMPOUNDS DETECTED  
LONG-TERM REMEDIATION MONITORING

	<u>Molecular Weight</u>	<u>Density (gm/cm<sup>3</sup>)</u>	<u>Water Solubility (mg/l)</u>	<u>Vapor Pressure (mm Hg)</u>	<u>K<sub>oc</sub>(1) (ml/g)</u>	<u>K<sub>ow</sub>(2)</u>
<u>Volatile Organic Parameters</u>						
Benzene	78	0.88	1,750	95	83	132
Ethylbenzene	106	0.87	152	7	1,100	1,412
Toluene	92	0.87	535	28	300	537
Xylene, m	106	0.86	130	10	871	1,820
Xylene, p	106	0.86	192	10	676	1,412
Xylene, o	106	0.88	175	10	426	891
1,2-Dichloroethane	99	1.26	8,520	64	14	30

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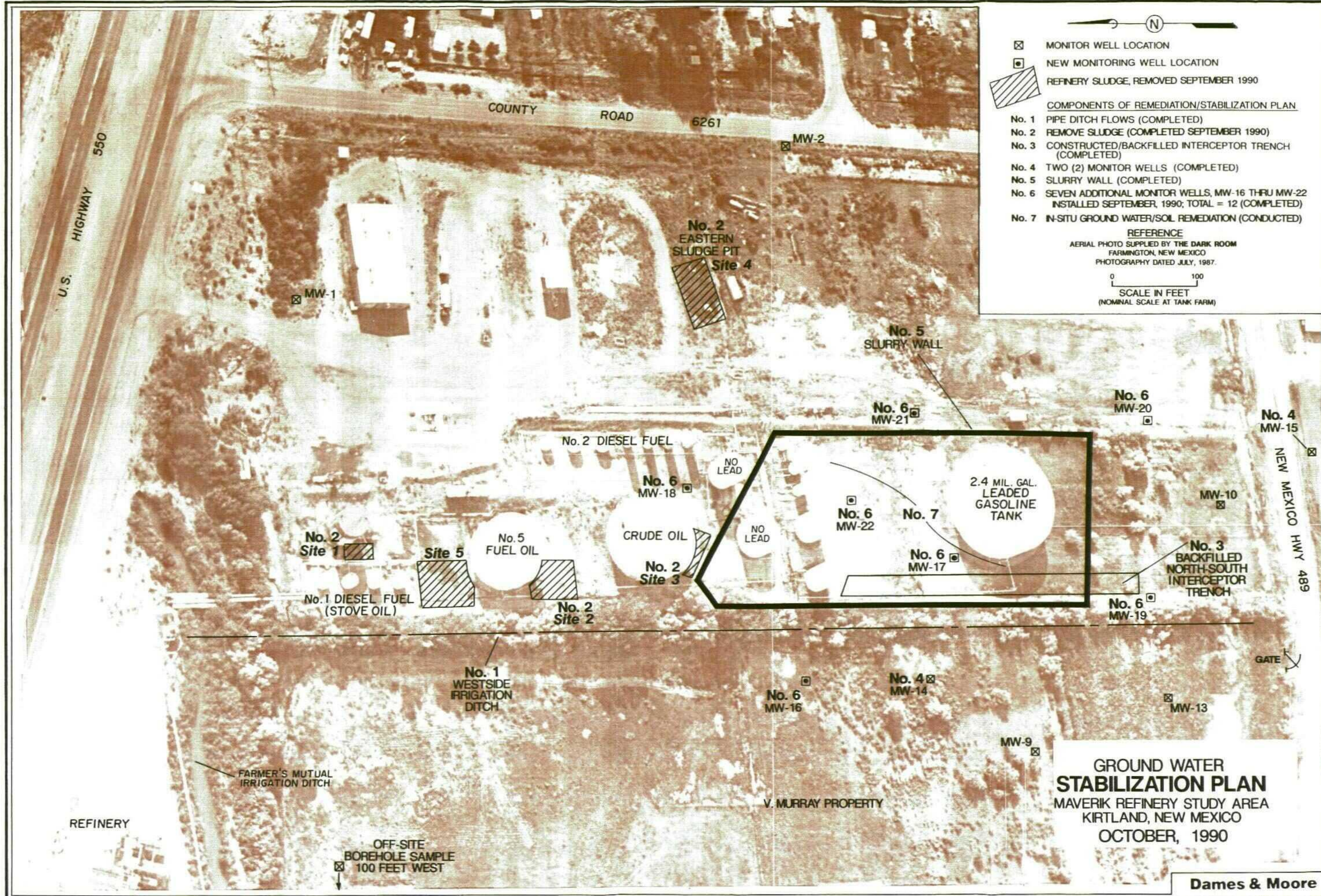
(1) Organic carbon partition coefficient, a measure of the tendency for organics to be adsorbed by soil and sediment.

(2) Octanol-water partition coefficient, a measure of the tendency of a chemical at equilibrium to distribute between an organic phase (octanol) and water.

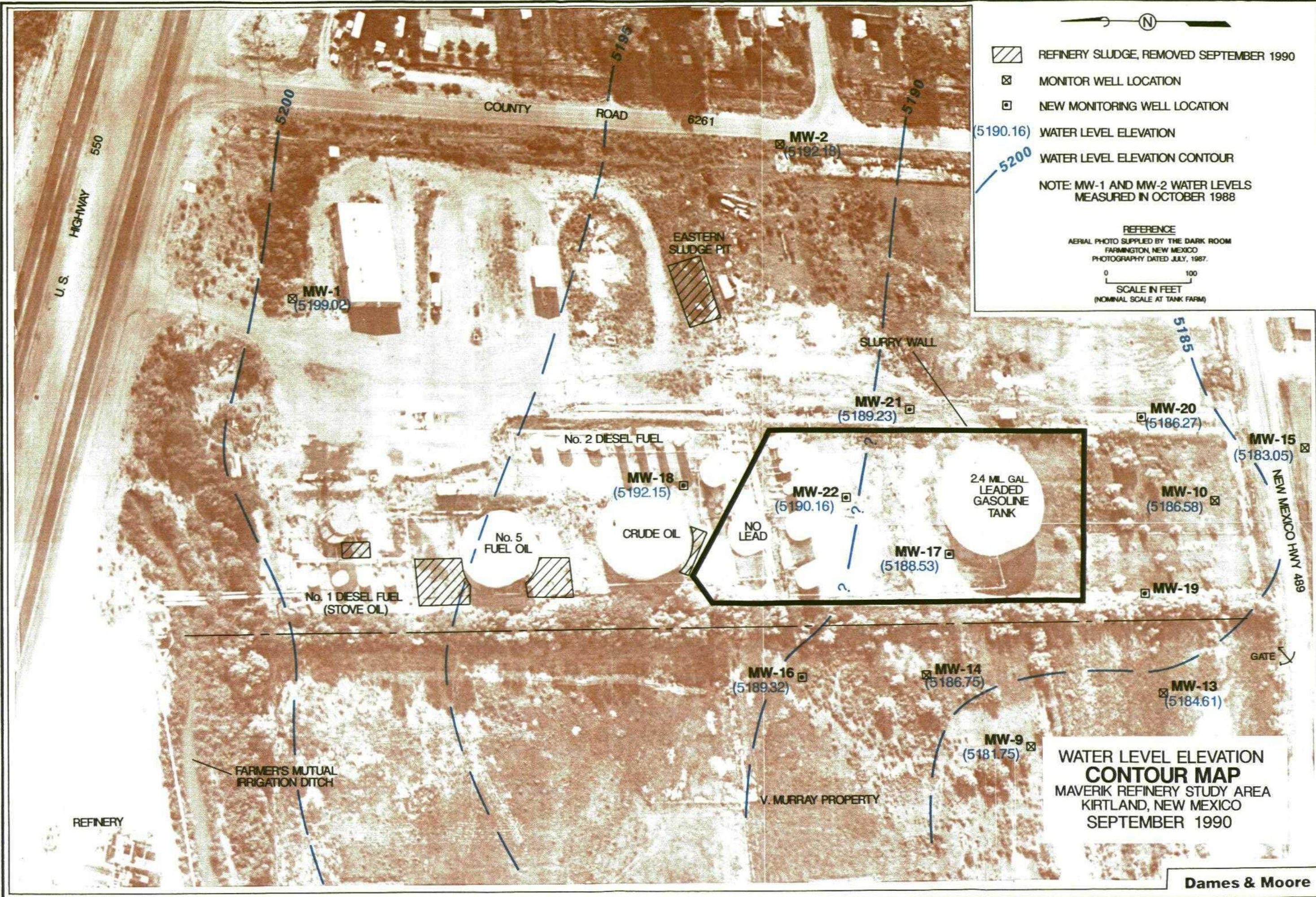
Source: Superfund Public Health Evaluation Manual, EPA 540/1-86/060, October 1986; Land Treatment of Appendix VIII Constituents in Petroleum Industry Wastes, American Petroleum Institute Publication 4379, May 1984.













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DATA  
CHEM  
LABORATORIES



TECHNICAL REPORT

for

DAMES AND MOORE

250 E. Broadway Suite 200  
Salt Lake City, UT 84111

Attention: Terry Vandell

*Rand Potter*  
Rand Potter  
Project Manager

CINCINNATI OFFICE  
4933 GLENDALE MILFORD ROAD  
CINCINNATI, OHIO 45242-3708  
513 733-5155 FAX 513 733-5347

SALT LAKE OFFICE  
360 WEST LAMAR DRIVE  
SALT LAKE CITY, UTAH 84123-2547  
801 266-7700 FAX 801 266-9992

DENVER OFFICE  
5239 5TH BOULEVARD #500  
ENGLEWOOD, COLORADO 80111-3328  
303 771-1355 FAX 303 771-0575

Sept. 26, 1990

REPORT INTRODUCTION  
ANALYTICAL COMMENTARY

SUBMITTED TO: Terry Vandell  
SUBMITTED BY: Lawrence S. Hall  
REFERENCE DATA:

Analysis of: 1 solid sample  
Sample Preparation: TCLP  
Method of Analysis: EPA 8240  
Identification No.: S90-0730EE  
DataChem Laboratory No.: EJ 4337

The above-numbered sample was prepared for analysis as prescribed in the Toxicity Characteristic Leaching Procedure (TCLP, Federal Register; Vol. 51, No. 216; November 7, 1986) and subsequently analyzed by EPA Method 8240 with modifications (EPA SW-846; third edition; September 1986; U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response). Ethanol and dichlorodifluoromethane are not included in the analysis.

Zero headspace extractors (ZHE), which are specifically designed for the TCLP procedure were used for sample preparation. Enough sample to provide 12.5 grams of solid phase was loaded into the ZHE. Prior determination of the percent solids of each sample enabled calculation of the weight of each sample to be used. The liquid portion of each sample was forced out of the ZHE with 50 psi helium and recombined with the extract when compatible. Two hundred fifty milliliters of dilute acetic acid solution (with sodium hydroxide added to stabilize the pH at 4.93 + or - 0.05 pH units) was injected into the ZHE prior to rotation of the entire apparatus for eighteen hours. The final water extract was transferred to 40 milliliter vials for the GC/MS analysis.

In all cases the ratio of extraction fluid to solid phase was maintained at a 20 to 1 ratio (by weight) as required by the TCLP methodology. Therefore, sample results reported as ug/L of extraction fluid represents micrograms of analyte per 50 grams of solid.

The water extract from the TCLP preparation was purged onto a Tekmar 2-phase trap then desorbed at 180 degrees centigrade under reverse helium flow. The desorbed organics were separated by a 2m x 2mm I.D. glass column packed with 1% SP-1000 on 60/80 mesh Carboxpack B. The column oven was programmed from 45 degrees centigrade ( 3 minutes ) to 220 degrees centigrade at 8 degrees centigrade per minute. Ionization of the analytes was by electron impact at 70 eV and scanning of the resulting ions was from 35 amu to 260 amu every three seconds.

An internal standard method of quantitation was used. Internal standards were added to each sample and standard prior to analysis. The standards were obtained from the EPA as mixtures. Five standards were analyzed as prescribed by the method at 20, 50, 100, 150 and 200 micrograms/liter. System Performance Check Compounds were checked for a minimum response factor of 0.300, these compounds are chloromethane, bromoform (can be 0.250), 1,1-dichloroethane, chlorobenzene and 1,1,2,2-tetrachloroethane. Response factors from the initial calibration curve are used to calculate percent relative standard deviation (%RSD) for Calibration Check Compounds. These are toluene, 1,1-dichloroethene, chloroform, 1,2-dichloropropane, ethylbenzene, and vinyl chloride, the %RSD must be less than 30%. These Q.C. criteria were met for the initial calibration curve.

Quantitation of each target compound is based on response factors from a 50 ug/L continuing calibration standard. Before sample analysis can begin, standardization requirements must be met. The response factors of System Performance Check Compounds must meet the minimum criteria of 0.300, except bromoform at 0.250, and the Calibration Check Compounds must be less than 25% difference with the average response from the initial calibration curve.

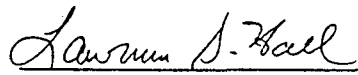
Tuning and calibration checks were made prior to sample analysis. A reagent blank was also analyzed prior to sample analysis to certify cleanliness of reagents. Before analysis, blanks were analyzed in each sparging unit to verify the cleanliness of the instrument sampling apparatus.

In addition, the following quality assurance procedures were routine; monitoring of internal standard absolute areas and retention times and measurement of surrogate standard recoveries.

DataChem will maintain a complete record of your data on magnetic tape including the ion chromatograms, mass spectra, and verification of compliance with EPA tuning (BFB).

The results for EPA Method 8240 are reported twice for each sample in the body of the report, first on the Summary Report and again on the Analytical Report (results by sample). The Analytical Report consists of two pages for each sample. Analytical standards have been analyzed for each compound on page one and the quantitative results are presented. The unknown compounds have been tentatively identified and are found on page two of the Analytical Report. The amount of each unknown present is estimated by comparison to an internal standard assuming the response factor to be one. Additionally, the footnotes on page two of the Analytical Report have been used to qualify the data reported.

DataChem Laboratories declines to report results for 1,1,1-trichlorethane due to contamination of the ZHE (zero headspace extractor). The ZHE was shown to be free of all other analytes.

  
Lawrence S. Hall



Sponsor DAMES & MOORE

		<u>Results ug/L</u>			Method Blank
Field No.	OFF-S				
DataChem EJ No.	4337				
<u>COMPOUND</u>	<u>ug/L</u>				
chloromethane	1.6	U			U
bromomethane	1.5	U			U
vinyl chloride	1.7	U			U
chloroethane	1.4	U			U
dichloromethane	1.6	U			U
acetone	4.3	U			U
carbon disulfide	1.6	U			U
trichlorofluoromethane	1.5	U			U
1,1-dichloroethene	1.2	U			U
1,1-dichloroethane	2.1	U			U
trans-1,2-dichloroethene	1.2	U			U
chloroform	1.8	U			U
1,2-dichloroethane	2.4	U			U
iodomethane	1.5	U			U
acrolein	58.	U			U
acrylonitrile	43.	U			U
2-butanone	3.8	U			U
1,1,1-trichloroethane	1.6	@			U
carbon tetrachloride	1.5	U			U
vinyl acetate	3.5	U			U
bromodichloromethane	1.8	U			U
1,2-dichloropropane	2.0	U			U
cis-1,3-dichloropropene	3.1	U			U
trichloroethene	1.3	U			U
benzene	1.6	U			U
chlorodibromomethane	1.4	U			U
1,1,2-trichloroethane	1.1	U			U
trans-1,3-dichloropropene	2.9	U			U
2-chloroethylvinyl ether	3.3	U			U
bromoform	1.2	U			U
dibromomethane	2.5	U			U
trans-1,4-dichloro-2-butene	1.7	U			U
4-methyl-2-pentanone	3.5	U			U
1,2,3-trichloropropane	2.3	U			U
2-hexanone	4.1	U			U
1,1,2,2-tetrachloroethane	2.0	U			U
tetrachloroethene	1.5	U			U
ethyl methacrylate	1.9	U			U
toluene	1.5	U			U
chlorobenzene	1.3	U			U
ethylbenzene	1.4	25.			U
styrene	1.2	U			U
total xylene	1.0	230.			U

\* See Footnotes on Page 2 of the analytical report

*Laurie Hall*

Analyst

*Thomas J. Masconi*

Reviewer

*Thomas J. Masconi*

Data Released

@ see memo

EPA METHOD 8240

## TARGET ANALYTE RESULTS

Field Sample ID OFF-SITE Sponsor DAMES & MOORE  
 File ID IM19EJ4337 Date of Analysis 09/11/90 Date Received 08/28/90  
 DataChem SET ID S90-0730EE

<u>Cas. No</u>	<u>COMPOUND</u>	<u>RESULTS</u> <u>(ug/L)</u>	<u>DETECTION LIMITS</u> <u>(ug/L)</u>
74-87-3	chloromethane	U	1.6*
74-83-9	bromomethane	U	1.5*
75-01-4	vinyl chloride	U	1.7*
75-00-3	chloroethane	U	1.4*
75-09-2	methylene chloride	U	1.6*
67-64-1	acetone	U	4.3*
75-15-0	carbon disulfide	U	1.6*
75-69-4	trichlorofluoromethane	U	1.5*
75-35-4	1,1-dichloroethene	U	1.2*
75-34-3	1,1-dichloroethane	U	2.1*
540-59-0	total 1,2-dichloroethene	U	1.2*
76-66-3	chloroform	U	1.8*
107-06-2	1,2-dichloroethane	U	2.4*
74-88-4	iodomethane	U	1.5*
107-02-8	acrolein	U	58.*
107-13-1	acrylonitrile	U	43.*
78-93-3	2-butanone	U	3.8*
71-55-6	1,1,1-trichloroethane	@	1.6*
56-23-5	carbon tetrachloride	U	1.5*
108-05-4	vinyl acetate	U	3.5*
75-27-4	bromodichloromethane	U	1.8*
78-87-5	1,2-dichloropropane	U	2.0*
10061-02-5	cis-1,3-dichloropropene	U	3.1*
79-01-6	trichloroethene	U	1.3*
71-43-2	benzene	U	1.6*
124-48-1	dibromochloromethane	U	1.4*
79-00-5	1,1,2-trichloroethane	U	1.1*
10061-02-6	trans-1,3-dichloropropene	U	2.9*
110-75-8	2-chloroethylvinyl ether	U	3.3*
75-25-2	bromoform	U	1.2*
74-95-3	dibromomethane	U	2.5*
764-41-0	trans-1,4-dichloro-2-butene	U	1.7*
108-10-1	4-methyl-2-pentanone	U	3.5*
96-18-4	1,2,3-trichloropropane	U	2.3*
591-78-6	2-hexanone	U	4.1*
79-34-5	1,1,2,2-tetrachloroethane	U	2.0*
127-18-4	tetrachloroethene	U	1.5*
97-63-2	ethyl methacrylate	U	1.9*
108-88-3	toluene	U	1.5*
108-90-7	chlorobenzene	U	1.3*
100-41-4	ethylbenzene	25.	1.4*
100-42-5	styrene	U	1.2*
1330-20-7	total xylene	230.	1.0*

\* current DataChem detection limit

① See memo

NON-TARGET ANALYTE RESULTS  
Additional Volatiles

Field Sample ID OFF-SITE

## Scan Results

<u>Cas. No</u>	<u>COMPOUND</u>	<u>Number</u>	<u>ug/L</u>	<u>Footnotes</u>
----------------	-----------------	---------------	-------------	------------------

[illegible]

## FOOTNOTES

- B The analyte was found in the method blank. The reported results have been adjusted for the quantity found in the blank.
- E The reported concentration is an estimate only. The response factor was assumed to be 1.000 relative to an internal standard.
- J Indicates an estimated concentration below the Method Detection Limit.
- K The isomer is unknown.
- N Analytical standards were not analyzed for this compound.
- U Not detected.
- W The identification is tentative or closely related to the compound.

WATER  
Surrogate Percent  
Recovery Summary

DataChem ID S90 0730EE

[illegible]

(TOL) = TOLUENE-D8  
(BFB) = BROMOFLUOROBENZENE  
(DCE) = 1,2-DICHLOROETHANE-D4

QC LIMITS  
(88-110)  
(86-115)  
(76-114)

MB is the abbreviation for method blank.  
If more than one method blank was analyzed they will be designated MB-1, MB-2, ect.

APPENDIX A  
PERTINENT CORRESPONDENCE/DATA FROM THE OCD

APPENDIX A  
PERTINENT CORRESPONDENCE/DATA FROM THE OCD

The following have been included in this appendix for purposes of documentation of key correspondence pertaining to site remediation and ground water quality: 1) four letters from the OCD (dated April 20, 1990, May 25, 1990, June 15, 1990 and August 13, 1990) regarding the remediation plan for the Maverik refinery and tank farm; 2) the laboratory results of the duplicate water quality samples taken by the OCD (Bill Olson) on September 13, 1990 for MW-9, MW-10, MW-14, MW-16 and MW-19; and 3) the laboratory results of the water sample taken (by the OCD, Bill Olson) of the Walker well on April 12, 1990.



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

GARREY CARRUTHERS  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

April 20, 1990

Terry D. Vandell  
Dames and Moore  
127 South 500 East  
Suite 300  
Salt Lake City, Utah 84102-1959

**RE: MODIFIED GROUND WATER REMEDIATION PLAN FOR THE KIRTLAND  
NEW MEXICO MAVERICK REFINERY**

Dear Ms. Vandell:

The New Mexico Oil Conservation Division (NMOCD) is in the process of reviewing the March 1990 "ON-SITE GROUND, SURFACE WATER AND SLUDGE LABORATORY ANALYTICAL DATA AND MODIFIED GROUND WATER REMEDIATION PLAN FOR MAVERICK TANK FARM KIRTLAND, NEW MEXICO FOR MAVERICK COUNTRY STORES INC". The conceptual remedial plan presented in the above document appears sufficient to remediate contaminated ground water and prevent further ground water contamination but, the NMOCD requires the following information to complete the review process:

1. Design specifications for the slurry wall, such as physical dimensions, method of emplacement and composition of the slurry, were not included in the remediation plan. NMOCD understands that Dames and Moore will initiate a boring program the week of April 30, 1990 in order to complete design criteria of the slurry wall. Please submit all design specifications upon completion of evaluation of the boreholes.
2. The NMOCD requests submission of design specifications for the air sparging system, dewatering wells and additional monitoring wells including depth of wells, completion intervals, methods of construction, piping and types of pumps.
3. Where will the additional monitoring wells be located?
4. Please submit design specifications for the water application or sprinkling process for enhanced bioremediation including area of application, types of equipment to be used and the locations of equipment and piping.

Ms. Terry D. Vandell  
April 20, 1990  
Page -2-

5. What measures will be taken to ensure that sprayed water will not leave the application area and that excess ponding does not occur during the application process?

The NMOCD would like to remind you that no remedial discharges can occur until the site has an approved discharge plan. Oversight responsibility, including authority for discharge plan approval, is expected to be formally returned to this agency at the Water Quality Control Commission meeting in Farmington on Tuesday, May 15, 1990. You will find enclosed the time and location of this meeting. An agenda for the meeting will be prepared shortly. If you have questions or comments on requests in this letter, please call me at (505) 827-5885.

Sincerely,



William Olson  
Hydrogeologist

WO/si

cc: William Call, Maverick County Stores, Inc.  
OCD Aztec District Office  
Dave Tomko, EID Farmington





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

GARREY CARRUTHERS  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

May 25, 1990

CERTIFIED MAIL  
RETURN RECEIPT NO. P-918-402-316

Terry D. Vandell  
Dames and Moore  
127 South 500 East  
Suite 300  
Salt Lake City, Utah 84102-1959

RE: Discharge Plan Requirement  
Maverick Refinery Remediation Project  
San Juan County, New Mexico

Dear Ms. Vandell:

Under the provisions of the Water Quality Control Commission (WQCC) Regulations you are hereby notified that the filing of a discharge plan is required for the Kirtland New Mexico Maverick Refinery Remediation Project located in the NE/4 NE/4, Section 17 and the SE/4 SE/4, Section 8, Township 29 North, Range 14 West, NMPM, San Juan County, New Mexico.

This notification of discharge plan requirement is pursuant to Sections 3-104 and 3-106 of the WQCC Regulations. The discharge plan, defined in Section 1.101.P of the WQCC Regulations, should cover all discharges of effluent or leachate at the site or adjacent to the site. Included in the application should be plans for controlling spills and accidental discharges at the site.

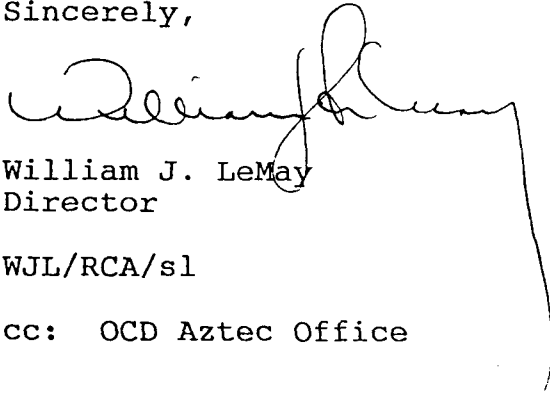
A copy of the regulations is enclosed for your convenience. Three copies of the discharge plan application should be submitted.

Section 3-106.A. 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.

Ms. Terry D. Vandell  
May 25, 1990  
Page -2-

If there are any questions on this matter, please feel free to call David Boyer at 827-5812, Roger Anderson at 827-5884 or Bill Olsen at 827-5885 as they have the assigned responsibility for review of all discharge plans.

Sincerely,

A handwritten signature in cursive script, appearing to read 'William J. LeMay', with a long horizontal line extending to the right.

William J. LeMay  
Director

WJL/RCA/sl

cc: OCD Aztec Office



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

GARREY CARRUTHERS  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

June 15, 1990

CERTIFIED MAIL  
RETURN RECEIPT NO. P-918-402-329

Terry D. Vandell  
Dames and Moore  
127 South 500 East, Suite 300  
Salt Lake City, Utah 84102

RE: SLURRY WALL CONSTRUCTION AT THE MAVERIK REFINERY AND TANK FARM  
KIRTLAND, NEW MEXICO

Dear Ms. Vandell:

The New Mexico Oil Conservation Division (OCD) has completed review of the May 30, 1990 "SCOPE OF WORK, TECHNICAL SPECIFICATIONS AND DRAWINGS" for the slurry wall and the June 7, 1990 "ADDITIONAL INFORMATION FOR SLURRY WALL DESIGN AND LOCATION AT MAVERIK COUNTRY STORES, INC. TANK FARM, KIRTLAND, NEW MEXICO".

The OCD approves of the installation of a slurry wall in the tank farm area, as presented in the above documents, to contain highly contaminated ground water prior to initiation of a ground water remediation program.

OCD approval of the slurry wall for containment of highly contaminated ground water does not constitute approval of the remediation system proposed. The additional information requested in OCD's April 20, 1990 correspondence with Dames and Moore still must be submitted before OCD can complete a review of the proposed remediation system.

OCD approval of the slurry wall system does not limit remediation to the area contained by the slurry wall if other areas of contaminated ground water related to the refinery activities outside of the slurry wall exceed New Mexico Water Quality Control Commission water quality standards. In addition, other contaminated areas such as the sludge areas identified in the June 1988 "PHASE II SUBSURFACE SOIL AND SOLID WASTE CONTAMINANT

EVALUATION, MAVERIK REFINERY AND TANK FARM, KIRTLAND, NEW MEXICO FOR MAVERIK COUNTRY STORES, INC" also need to be addressed in the site remediation plan.

Please be advised that OCD approval of the slurry wall installation does not relieve you of liability actionable under any other laws and/or regulations. If you have any questions please call me at (505) 827-5885.

Sincerely,

A handwritten signature in cursive script, appearing to read "Will C. Olson".

William C. Olson  
Hydrogeologist

WCO

xc: William Call, Maverik Country Stores, Inc.  
William J. Lemay, OCD Director  
Frank Chavez, OCD Aztec District Office  
Dave Tomko, EID Farmington



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

GARREY CARRUTHERS  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

August 13, 1990

CERTIFIED MAIL  
RETURN RECEIPT NO. P-918-402-339

Terry D. Vandell  
Dames and Moore  
127 South 500 East, Suite 300  
Salt Lake City, Utah 84102

RE: SOIL/SLUDGE DISPOSAL PLAN  
MAVERIK REFINERY AND TANK FARM  
KIRTLAND, NEW MEXICO

Dear Ms. Vandell:

The New Mexico Oil Conservation Division (OCD) has completed review of the July 26, 1990 "SOIL/SLUDGE DISPOSAL" proposal submitted by Dames and Moore for the Maverik Country Stores, Inc. Refinery and Tank Farm in Kirtland, New Mexico. The OCD approves of Dames and Moores proposal for removal of contaminated soil from the eastern sludge pit and tank farm area with the following changes and conditions as agreed during conversations between OCD and Dames and Moore on August 9, 1990:


- 1) The OCD will allow disposal of contaminated soils at the Envirotech Solids Disposal Facility south of Bloomfield, New Mexico.
- 2) Sludge from the eastern sludge pit will not be taken to the Envirotech Solids Disposal Facility. Dames and Moore will transport the sludge to CSI for proper disposal.
- 3) The definition of sludge from the eastern sludge pit will include a four inch buffer of soil surrounding the physical limit of the sludge.

- 4) Contaminated soils from the bottom of each excavated area will be sampled and submitted for appropriate laboratory analyses to determine if further remediation is required.
- 5) All soils above the following contaminant levels, determined by laboratory analysis, will be remediated:
  - If the sum of all detected aromatics is greater than 50 part per million (ppm), or the benzene concentration is greater than 10 ppm.
  - If the concentration of total petroleum hydrocarbons is greater than 100 ppm.
  - If the concentration of any heavy metals are greater than one-fifth of RCRA EP toxic levels.
- 6) Clean fill will be used for all backfilling of excavated areas.
- 7) Soil samples will be taken from the excavated areas prior to backfilling to confirm that remediation levels have been attained.
- 8) A report will be submitted to OCD upon completion documenting remediation performed including the limits of the excavated areas, volumes excavated, transportation manifests, all laboratory analyses performed and any other pertinent information.

OCD approval of the soil/sludge disposal remediation plan does not limit remediation to the areas proposed if other areas of contaminated soil related to refinery activities are identified during future investigations.

Please be advised that OCD approval of the soil/sludge remediation plan does not relieve you of liability which may be actionable under any other laws and/or regulations. If you have any questions please call me at (505) 827-5885.

Sincerely,



William C. Olson  
Hydrogeologist

WCO

xc: William Call, Maverik Country Stores, Inc.  
Frank Chavez, OCD Aztec District Office  
Dave Tomko, EID Farmington



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

GARREY CARRUTHERS  
GOVERNOR

October 16, 1990

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

Terry D. Vandell  
Dames and Moore  
127 South, 500 East  
Suite 300  
Salt Lake City, Utah 84102-1959

RE: OCD SAMPLING OF MONITOR WELLS  
CARIBOU/MAVERIK REFINERY AND TANK FARM  
KIRTLAND, NEW MEXICO

Dear Ms. Vandell:

On September 13, 1990, the New Mexico Oil Conservation Division (OCD) split ground water samples from select Caribou/Maverik refinery monitor wells with Dames and Moore. Samples were analyzed for aromatic and halogenated volatile organics using EPA method 8010/8020. Enclosed you will find copies of the analytical results for monitor wells MW-9, MW-10, MW-14, MW-16 and MW-19.

Halogenated volatile organics were not detected in any of the samples. Low levels of purgeable volatile organics (benzene, toluene, ethylbenzene and xylene) were detected in samples from monitor wells MW-10, MW-14, MW-16 and MW-19. No purgeable volatile organics were detected in the sample from monitor well MW-9.

If you have any questions, please contact me at (505)827-5885.

Sincerely,

William C. Olson  
Hydrogeologist

Enclosures

xc: Aztec OCD Office  
Dave Tomko, Farmington EID Office  
William Call, Maverik Country Stores, Inc.



Inter-Mountain  
Laboratories, Inc.

CLIENT: NMOCD-Caribou  
ID: 9009131615  
SITE: MW-9  
LAB NO: F4994

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

DATE REPORTED: 09/27/90  
DATE ANALYZED: 09/18/90  
DATE RECEIVED: 09/14/90  
DATE COLLECTED: 09/13/90

Analysis Requested: Purgeable aromatics in water.

Parameter	Concentration	Units
-----	-----	-----
Benzene	ND (0.2)	ug/l
Toluene	ND (0.2)	ug/l
Ethylbenzene	ND (0.2)	ug/l
m/p-Xylene	ND (0.2)	ug/l
o-Xylene	ND (0.2)	ug/l
1,4-Dichlorobenzene	ND (0.4)	ug/l
1,3-Dichlorobenzene	ND (0.3)	ug/l
1,2-Dichlorobenzene	ND (0.4)	ug/l
Chlorobenzene	ND (0.2)	ug/l

Method:

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

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.

C. Neal Schaeffer  
Senior Chemist

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SANTA FE





Inter-Mountain  
Laboratories, Inc.

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OCT 1 1990

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

CLIENT: NMOC-D-Caribou

OIL CONSERVATION DIV.  
SANTA FE

DATE REPORTED: 09/27/90

ID: 9009131615

DATE ANALYZED: 09/18/90

SITE: MW-9

DATE RECEIVED: 09/14/90

LAB NO: F4994

DATE COLLECTED: 09/13/90

Analysis Requested: Purgeable halocarbons in water.

Parameter	Concentration
Chloromethane, ug/l.....	ND (10)
Bromomethane, ug/l.....	ND (10)
Dichlorodifluoromethane, ug/l.....	ND (10)
Vinyl chloride, ug/l.....	ND (10)
Chloroethane, ug/l.....	ND (1.0)
Dichloromethane (methylene chloride)	ND (1.0)
Trichlorofluoromethane, ug/l.....	ND (1.0)
1,1-dichloroethene, ug/l.....	ND (1.0)
1,1-dichloroethane, ug/l.....	ND (1.0)
trans-1,2-dichloroethene, ug/l.....	ND (1.0)
cis-1,2-dichloroethene, ug/l.....	ND (1.0)
Chloroform, ug/l.....	ND (1.0)
1,2-dichloroethane, ug/l.....	ND (1.0)
1,1,1-trichloroethane, ug/l.....	ND (1.0)
Carbon tetrachloride, ug/l.....	ND (1.0)
Bromodichloromethane, ug/l.....	ND (1.0)
Bromochloromethane, ug/l.....	ND (1.0)
1,2-Dichloropropane, ug/l.....	ND (1.0)
1,3-Dichloropropane, ug/l.....	ND (1.0)
1,2-Dibromoethane, ug/l.....	ND (1.0)
1,2-Dibromo-3-chloropropane, ug/l...	ND (1.0)
Trichloroethene, ug/l.....	ND (1.0)
Dibromochloromethane, ug/l.....	ND (1.0)
1,1,2-Trichloroethane, ug/l.....	ND (1.0)
1,1-dichloropropene, ug/l.....	ND (1.0)
2-chloroethyl vinyl ether, ug/l.....	ND (10)
Bromoform, ug/l.....	ND (1.0)
1,1,1,2-tetrachloroethane, ug/l.....	ND (1.0)
1,1,2,2-tetrachloroethane, ug/l.....	ND (1.0)
Tetrachloroethene, ug/l.....	ND (1.0)
Chlorobenzene, ug/l.....	ND (1.0)
1,3-dichlorobenzene, ug/l.....	ND (1.0)
1,2-dichlorobenzene, ug/l.....	ND (1.0)
1,4-dichlorobenzene, ug/l.....	ND (1.0)
bis(2-chloroisopropyl)ether, ug/l....	ND (1.0)
Bromobenzene, ug/l.....	ND (1.0)
2-Chlorotoluene, ug/l.....	ND (1.0)
Dibromomethane, ug/l.....	ND (1.0)
1,2,3-Trichloropropane, ug/l.....	ND (1.0)

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



Inter-Mountain  
Laboratories, Inc.

CLIENT: NMOCB-Caribou  
ID: 9009131715  
SITE: MW-10  
LAB NO: F4995

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

DATE REPORTED: 09/27/90  
DATE ANALYZED: 09/18/90  
DATE RECEIVED: 09/14/90  
DATE COLLECTED: 09/13/90

Analysis Requested: Purgeable aromatics in water.

Parameter	Concentration	Units
-----	-----	-----
Benzene	ND	(0.2) ug/l
Toluene	ND	(0.2) ug/l
Ethylbenzene	ND	(0.2) ug/l
m/p-Xylene	0.6	(0.2) ug/l
o-Xylene	ND	(0.2) ug/l
1,4-Dichlorobenzene	ND	(0.4) ug/l
1,3-Dichlorobenzene	ND	(0.3) ug/l
1,2-Dichlorobenzene	ND	(0.4) ug/l
Chlorobenzene	ND	(0.2) ug/l

Method:

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

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.

C. Neal Schaeffer  
Senior Chemist

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SANTA FE

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Inter-Mountain  
Laboratories, Inc.

OCT 1 1990

OIL CONSERVATION DIV.  
SANTA FE

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

CLIENT: NMOC-D-Caribou  
ID: 9009131715  
SITE: MW-10  
LAB NO: F4995

DATE REPORTED: 09/27/90  
DATE ANALYZED: 09/18/90  
DATE RECEIVED: 09/14/90  
DATE COLLECTED: 09/13/90

Analysis Requested: Purgeable halocarbons in water.

Parameter	Concentration
Chloromethane, ug/l.....	ND (10)
Bromomethane, ug/l.....	ND (10)
Dichlorodifluoromethane, ug/l.....	ND (10)
Vinyl chloride, ug/l.....	ND (10)
Chloroethane, ug/l.....	ND (1.0)
Dichloromethane (methylene chloride)	ND (1.0)
Trichlorofluoromethane, ug/l.....	ND (1.0)
1,1-dichloroethene, ug/l.....	ND (1.0)
1,1-dichloroethane, ug/l.....	ND (1.0)
trans-1,2-dichloroethene, ug/l.....	ND (1.0)
cis-1,2-dichloroethene, ug/l.....	ND (1.0)
Chloroform, ug/l.....	ND (1.0)
1,2-dichloroethane, ug/l.....	ND (1.0)
1,1,1-trichloroethane, ug/l.....	ND (1.0)
Carbon tetrachloride, ug/l.....	ND (1.0)
Bromodichloromethane, ug/l.....	ND (1.0)
Bromochloromethane, ug/l.....	ND (1.0)
1,2-Dichloropropane, ug/l.....	ND (1.0)
1,3-Dichloropropane, ug/l.....	ND (1.0)
1,2-Dibromoethane, ug/l.....	ND (1.0)
1,2-Dibromo-3-chloropropane, ug/l...	ND (1.0)
Trichloroethene, ug/l.....	ND (1.0)
Dibromochloromethane, ug/l.....	ND (1.0)
1,1,2-Trichloroethane, ug/l.....	ND (1.0)
1,1-dichloropropene, ug/l.....	ND (1.0)
2-chloroethyl vinyl ether, ug/l.....	ND (10)
Bromoform, ug/l.....	ND (1.0)
1,1,1,2-tetrachloroethane, ug/l.....	ND (1.0)
1,1,2,2-tetrachloroethane, ug/l.....	ND (1.0)
Tetrachloroethene, ug/l.....	ND (1.0)
Chlorobenzene, ug/l.....	ND (1.0)
1,3-dichlorobenzene, ug/l.....	ND (1.0)
1,2-dichlorobenzene, ug/l.....	ND (1.0)
1,4-dichlorobenzene, ug/l.....	ND (1.0)
bis(2-chloroisopropyl)ether, ug/l....	ND (1.0)
Bromobenzene, ug/l.....	ND (1.0)
2-Chlorotoluene, ug/l.....	ND (1.0)
Dibromomethane, ug/l.....	ND (1.0)
1,2,3-Trichloropropane, ug/l.....	ND (1.0)

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*

C. Neal Schaeffer  
Senior Chemist



Inter-Mountain  
Laboratories, Inc.

CLIENT: NMOCD-Caribou  
ID: 9009131530  
SITE: MW-14  
LAB NO: F4996

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

DATE REPORTED: 09/27/90  
DATE ANALYZED: 09/18/90  
DATE RECEIVED: 09/14/90  
DATE COLLECTED: 09/13/90

Analysis Requested: Purgeable aromatics in water.

Parameter	Concentration	Units
-----	-----	-----
Benzene	ND (0.2)	ug/l
Toluene	ND (0.2)	ug/l
Ethylbenzene	ND (0.2)	ug/l
m/p-Xylene	0.4 (0.2)	ug/l
o-Xylene	ND (0.2)	ug/l
1,4-Dichlorobenzene	ND (0.4)	ug/l
1,3-Dichlorobenzene	ND (0.3)	ug/l
1,2-Dichlorobenzene	ND (0.4)	ug/l
Chlorobenzene	ND (0.2)	ug/l

Method:

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

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.

C. Neal Schaeffer  
Senior Chemist

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OIL CONSERVATION DIV.  
SANTA FE



InterMountain  
Laboratories, Inc.

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OCT 1 1990

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

CLIENT: NMOCD-Caribou

ID: 9009131530

SITE: MW-14

LAB NO: F4996

OIL CONSERVATION DIV.  
SANTA FE

DATE REPORTED: 09/27/90

DATE ANALYZED: 09/18/90

DATE RECEIVED: 09/14/90

DATE COLLECTED: 09/13/90

Analysis Requested: Purgeable halocarbons in water.

Parameter	Concentration
Chloromethane, ug/l.....	ND (10)
Bromomethane, ug/l.....	ND (10)
Dichlorodifluoromethane, ug/l.....	ND (10)
Vinyl chloride, ug/l.....	ND (10)
Chloroethane, ug/l.....	ND (1.0)
Dichloromethane (methylene chloride)	ND (1.0)
Trichlorofluoromethane, ug/l.....	ND (1.0)
1,1-dichloroethene, ug/l.....	ND (1.0)
1,1-dichloroethane, ug/l.....	ND (1.0)
trans-1,2-dichloroethene, ug/l.....	ND (1.0)
cis-1,2-dichloroethene, ug/l.....	ND (1.0)
Chloroform, ug/l.....	ND (1.0)
1,2-dichloroethane, ug/l.....	ND (1.0)
1,1,1-trichloroethane, ug/l.....	ND (1.0)
Carbon tetrachloride, ug/l.....	ND (1.0)
Bromodichloromethane, ug/l.....	ND (1.0)
Bromochloromethane, ug/l.....	ND (1.0)
1,2-Dichloropropane, ug/l.....	ND (1.0)
1,3-Dichloropropane, ug/l.....	ND (1.0)
1,2-Dibromoethane, ug/l.....	ND (1.0)
1,2-Dibromo-3-chloropropane, ug/l...	ND (1.0)
Trichloroethene, ug/l.....	ND (1.0)
Dibromochloromethane, ug/l.....	ND (1.0)
1,1,2-Trichloroethane, ug/l.....	ND (1.0)
1,1-dichloropropene, ug/l.....	ND (1.0)
2-chloroethyl vinyl ether, ug/l.....	ND (10)
Bromoform, ug/l.....	ND (1.0)
1,1,1,2-tetrachloroethane, ug/l.....	ND (1.0)
1,1,2,2-tetrachloroethane, ug/l.....	ND (1.0)
Tetrachloroethene, ug/l.....	ND (1.0)
Chlorobenzene, ug/l.....	ND (1.0)
1,3-dichlorobenzene, ug/l.....	ND (1.0)
1,2-dichlorobenzene, ug/l.....	ND (1.0)
1,4-dichlorobenzene, ug/l.....	ND (1.0)
bis(2-chloroisopropyl)ether, ug/l....	ND (1.0)
Bromobenzene, ug/l.....	ND (1.0)
2-Chlorotoluene, ug/l.....	ND (1.0)
Dibromomethane, ug/l.....	ND (1.0)
1,2,3-Trichloropropane, ug/l.....	ND (1.0)

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



Inter-Mountain  
Laboratories, Inc.

CLIENT: NMOCD-Caribou  
ID: 9009131430  
SITE: MW-16  
LAB NO: F4997

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

DATE REPORTED: 09/27/90  
DATE ANALYZED: 09/18/90  
DATE RECEIVED: 09/14/90  
DATE COLLECTED: 09/13/90

Analysis Requested: Purgeable aromatics in water.

Parameter	Concentration	Units
-----	-----	-----
Benzene	ND (0.2)	ug/l
Toluene	0.6 (0.2)	ug/l
Ethylbenzene	0.4 (0.2)	ug/l
m/p-Xylene	1.0 (0.2)	ug/l
o-Xylene	1.8 (0.2)	ug/l
1,4-Dichlorobenzene	ND (0.4)	ug/l
1,3-Dichlorobenzene	ND (0.3)	ug/l
1,2-Dichlorobenzene	ND (0.4)	ug/l
Chlorobenzene	ND (0.2)	ug/l

Method:

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

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.

C. Neal Schaeffer  
Senior Chemist

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OIL CONSERVATION DIV.  
SANTA FE

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Inter-Mountain  
Laboratories, Inc.

OIL CONSERVATION DIV.  
SANTA FE

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

CLIENT: NMOC-D-Caribou  
ID: 9009131430  
SITE: MW-16  
LAB NO: F4997

DATE REPORTED: 09/27/90  
DATE ANALYZED: 09/18/90  
DATE RECEIVED: 09/14/90  
DATE COLLECTED: 09/13/90

Analysis Requested: Purgeable halocarbons in water.

Parameter	Concentration
Chloromethane, ug/l.....	ND (10)
Bromomethane, ug/l.....	ND (10)
Dichlorodifluoromethane, ug/l.....	ND (10)
Vinyl chloride, ug/l.....	ND (10)
Chloroethane, ug/l.....	ND (1.0)
Dichloromethane (methylene chloride)	ND (1.0)
Trichlorofluoromethane, ug/l.....	ND (1.0)
1,1-dichloroethene, ug/l.....	ND (1.0)
1,1-dichloroethane, ug/l.....	ND (1.0)
trans-1,2-dichloroethene, ug/l.....	ND (1.0)
cis-1,2-dichloroethene, ug/l.....	ND (1.0)
Chloroform, ug/l.....	ND (1.0)
1,2-dichloroethane, ug/l.....	ND (1.0)
1,1,1-trichloroethane, ug/l.....	ND (1.0)
Carbon tetrachloride, ug/l.....	ND (1.0)
Bromodichloromethane, ug/l.....	ND (1.0)
Bromochloromethane, ug/l.....	ND (1.0)
1,2-Dichloropropane, ug/l.....	ND (1.0)
1,3-Dichloropropane, ug/l.....	ND (1.0)
1,2-Dibromoethane, ug/l.....	ND (1.0)
1,2-Dibromo-3-chloropropane, ug/l...	ND (1.0)
Trichloroethene, ug/l.....	ND (1.0)
Dibromochloromethane, ug/l.....	ND (1.0)
1,1,2-Trichloroethane, ug/l.....	ND (1.0)
1,1-dichloropropene, ug/l.....	ND (1.0)
2-chloroethyl vinyl ether, ug/l.....	ND (10)
Bromoform, ug/l.....	ND (1.0)
1,1,1,2-tetrachloroethane, ug/l.....	ND (1.0)
1,1,2,2-tetrachloroethane, ug/l.....	ND (1.0)
Tetrachloroethene, ug/l.....	ND (1.0)
Chlorobenzene, ug/l.....	ND (1.0)
1,3-dichlorobenzene, ug/l.....	ND (1.0)
1,2-dichlorobenzene, ug/l.....	ND (1.0)
1,4-dichlorobenzene, ug/l.....	ND (1.0)
bis(2-chloroisopropyl)ether, ug/l.....	ND (1.0)
Bromobenzene, ug/l.....	ND (1.0)
2-Chlorotoluene, ug/l.....	ND (1.0)
Dibromomethane, ug/l.....	ND (1.0)
1,2,3-Trichloropropane, ug/l.....	ND (1.0)

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



Inter-Mountain  
Laboratories, Inc.

CLIENT: NMOCDCaribou  
ID: 9009131800  
SITE: MW-19  
LAB NO: F4998

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

DATE REPORTED: 09/27/90  
DATE ANALYZED: 09/18/90  
DATE RECEIVED: 09/14/90  
DATE COLLECTED: 09/13/90

Analysis Requested: Purgeable aromatics in water.

Parameter -----	Concentration -----	Units -----
Benzene	0.6 (0.2)	ug/l
Toluene	0.7 (0.2)	ug/l
Ethylbenzene	0.5 (0.2)	ug/l
m/p-Xylene	0.9 (0.2)	ug/l
o-Xylene	1.1 (0.2)	ug/l
1,4-Dichlorobenzene	ND (0.4)	ug/l
1,3-Dichlorobenzene	ND (0.3)	ug/l
1,2-Dichlorobenzene	ND (0.4)	ug/l
Chlorobenzene	ND (0.2)	ug/l

Method:

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

(Detection limit in parenthesis.)

ND - Parameter not detected at the stated detection limit.

C. Neal Schaeffer  
Senior Chemist

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OCT 1 1990

OIL CONSERVATION DIV.  
SANTA FE





Inter-Mountain  
Laboratories, Inc.

CLIENT: NMOCDCaribou

ID: 9009131800

SITE: MW-19

LAB NO: F4998

2506 West Main Street  
Farmington, New Mexico 87401  
Tel. (505) 326-4737

DATE REPORTED: 10/09/90

DATE ANALYZED: 09/20/90

DATE RECEIVED: 09/14/90

DATE COLLECTED: 09/13/90

Analysis Requested: Purgeable halocarbons in water.

Parameter	Concentration
Chloromethane, ug/l.....	ND (100)
Bromomethane, ug/l.....	ND (100)
Dichlorodifluoromethane, ug/l.....	ND (100)
Vinyl chloride, ug/l.....	ND (100)
Chloroethane, ug/l.....	ND (10)
Dichloromethane (methylene chloride)	ND (10)
Trichlorofluoromethane, ug/l.....	ND (10)
1,1-dichloroethene, ug/l.....	ND (10)
1,1-dichloroethane, ug/l.....	ND (10)
trans-1,2-dichloroethene, ug/l.....	ND (10)
cis-1,2-dichloroethene, ug/l.....	ND (10)
Chloroform, ug/l.....	ND (10)
1,2-dichloroethane, ug/l.....	ND (10)
1,1,1-trichloroethane, ug/l.....	ND (10)
Carbon tetrachloride, ug/l.....	ND (10)
Bromodichloromethane, ug/l.....	ND (10)
Bromochloromethane, ug/l.....	ND (10)
1,2-Dichloropropane, ug/l.....	ND (10)
1,3-Dichloropropane, ug/l.....	ND (10)
1,2-Dibromoethane, ug/l.....	ND (10)
1,2-Dibromo-3-chloropropane, ug/l...	ND (10)
Trichloroethene, ug/l.....	ND (10)
Dibromochloromethane, ug/l.....	ND (10)
1,1,2-Trichloroethane, ug/l.....	ND (10)
1,1-dichloropropene, ug/l.....	ND (10)
2-chloroethyl vinyl ether, ug/l.....	ND (100)
Bromoform, ug/l.....	ND (10)
1,1,1,2-tetrachloroethane, ug/l.....	ND (10)
1,1,2,2-tetrachloroethane, ug/l.....	ND (10)
Tetrachloroethene, ug/l.....	ND (10)
Chlorobenzene, ug/l.....	ND (10)
1,3-dichlorobenzene, ug/l.....	ND (10)
1,2-dichlorobenzene, ug/l.....	ND (10)
1,4-dichlorobenzene, ug/l.....	ND (10)
bis(2-chloroisopropyl)ether, ug/l....	ND (10)
Bromobenzene, ug/l.....	ND (10)
2-Chlorotoluene, ug/l.....	ND (10)
Dibromomethane, ug/l.....	ND (10)
1,2,3-Trichloropropane, ug/l.....	ND (10)

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



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

GARREY CARRUTHERS  
GOVERNOR

June 1, 1990

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

Mrs. William Walker  
15 Road 6271  
Kirtland, New Mexico 87417

Dear Mrs. Walker:

On April 12, 1990, the New Mexico Oil Conservation Division (OCD) collected a water sample from your private well for analysis of the presence of petroleum hydrocarbons which may be related to the past activities of the Caribou/Maverik Refinery in Kirtland, New Mexico. Enclosed you will find the results of the analyses.

The analytical results show that your well water contains a trace amount of 1,2-Dichloroethane, an organic chemical often associated with leaded gasoline. Although 1,2-Dichloroethane was detected, the concentration could not be quantified because it was present at a concentration lower than the one ppb detection limit of the laboratory equipment. The state of New Mexico Water Quality Control Commission ground water standard for 1,2-Dichloroethane is 10 parts per billion (ppb). The presence of 1,2-dichloroethane in your well indicates that very low levels of this petroleum related contaminant are present in the shallow ground water, but the amount of the contaminant is too small to be a threat to human health.

The OCD would like to contact you in the future to resample your well in order to monitor the water quality of the aquifer in your area. If you have any questions please contact me at 827-5885.

Sincerely,

William C. Olson  
Hydrogeologist

Enclosures

xc: Frank Chavez, OCD Aztec District Office  
Terry Vandell, Dames and Moore  
Dave Tomko, EID Farmington Office

## ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

SCIENTIFIC LABORATORY DIVISION

700 CAMINO DE SALUD N.E., ALBUQUERQUE, NM 87106

Organic Chemistry Section - Telephone: (505) 841-2570

SLD No.

90-0549-C

Date

Received: 4/10/12

Request ID No. 000783-C

2 User Code #:

814435

3 Request ID No.:

6 County: San Juan

4 Priority Code #: 3

(If "1" or "2", call EID-SLD Coordinator)

5 Facility Name:

Caribon Refinery

7 City:

Kirtland

8 State:

NM

9 Sample Location:

10 Collected By:

Bill

10/1/50N

On: 90/04/12

At: 11:00 hrs.

First

Last

Date: (YY/MM/DD)

Time: 24 hr. clock

3:00 pm = 1500 hrs.

11 Codes:

2610

Submitter

WSS #

Organization

12 Latitude (DDMMSS)

Longitude (DDMMSS)

2 Digit ID (if needed)

13 Report To:

Name

Bill Olson

14 Phone #:

827-5885

Address

N.M. Oil Conservation Division

P.O. Box 2088

City, State Zip

Santa Fe N.M. 87504-2088

15

Sampling Information:

Sample Purpose:

☒ Grab☐ Composite

(Composite Time Period)

☐ Compliance☐ Flow Proportioned☐ Check☐ Equal Aliquot☒ Monitoring☐ Sample Split w/Permittee☐ Special☐ Chain of Custody

16 Field Data:

pH:

Conductivity:

umhos @

°C

Temperature:

°C

Chlorine Residual:

mg/l

Flow:

17 Sample Source:

☐ -Stream☐ -Lake☐ -Drain☐ -Pool☐ -WWTP☒ -Well; Depth:☐ -Spring☐ -Distribution☐ -Point-of-Entry☐ -Other:

18 Field Notes/

Sample #:

Walker Private Well

19 Sample Type:

☒ -Water☐ -Soil☐ -Food☐ -Wastewater☐ -OtherThis form accompanies a single sample consisting of:

2 - septum vial(s) (volume = 40 ml)

- glass jugs (volume = )

(volume = )

20 Preservation:

☐ - NP

No Preservation; Sample stored at room temperature

☒ - P-ice

Sample stored in an ice bath (Not Frozen)

☐ - P-TS

Sample Preserved with Sodium Thiosulfate to remove chlorine residual

☐ - P-HCl

Sample Preserved with Hydrochloric Acid (2 drops/40 ml)

☐ - Other

21 Analyses Requested:

Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required.

## Volatile Screens:

- ☐ - (753) Aliphatic Headspace (1-5 Carbons)  
☒ - (754) Aromatic & Halogenated Purgeables (EPA 601 & 602)  
☐ - (765) Mass Spectrometer Purgeables (EPA 624)  
☐ - (766) SDWA Total Trihalomethanes (EPA 501.1)  
☐ - (774) SDWA VOC's I [8 Regulated + ] (EPA 502.2)  
☐ - (775) SDWA VOC's II [EDB & DBCP] (EPA 504)

## Other Specific Compounds or Classes:

- ☐ - ( )  
☐ - ( )  
☐ - ( )

## Semivolatile Screens:

- ☐ - (763) Acid Extractables  
☐ - (751) Aliphatic Hydrocarbons  
☐ - (755) Base/Neutral Extractables (EPA 625)  
☐ - (756) Base/Neutral/Acid Extractables (EPA 8270)  
☐ - (758) Herbicides, Chlorophenoxy Acid  
☐ - (759) Herbicides, Triazines  
☐ - (760) Organochlorine Pesticides  
☐ - (761) Organophosphate Pesticides  
☐ - (767) Polychlorinated Biphenyls (PCB's)  
☐ - (764) Polynuclear Aromatic Hydrocarbons  
☐ - (762) SDWA Pesticides & Herbicides

Remarks:

## SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud, NE  
Albuquerque, NM 87106 [505]-841-2500  
ORGANIC CHEMISTRY SECTION [505]-841-2570

April 27, 1990

Request  
ID No. 000783

**ANALYTICAL REPORT**  
**SLD Accession No. OR-90-0549**

Distribution

(■) Submitter

(☒) SLD Files

To: Olson  
NM Oil Conserv. Div.  
State Land Office Bldg.  
P.O. Box 2088  
Santa Fe, NM 87504-2088

From: Organic Chemistry Section  
Scientific Laboratory Div.  
700 Camino de Salud, NE  
Albuquerque, NM 87106

Re: A water, Purgeable sample submitted to this laboratory on April 16, 1990

## DEMOGRAPHIC DATA

COLLECTION		LOCATION
On: 12-Apr-90	By: Ols . . .	Caribon Refinery/Walker Well
At: 18:00 hrs.	In/Near: Kirtland	

## ANALYTICAL RESULTS: Aromatic &amp; Halogenated Purgeable Screen

Parameter	Value	Note	MDL	Units
1,2-Dichloroethane	0.00	T	1.00	ppb
Aromatic Purgeables (6)	0.00	N	1.00	ppb

See Laboratory Remarks for Additional Information

Notations & Comments:

MDL = Minimal Detectable Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified;  
T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.

Evidentiary Seals: Not Sealed ☒; Intact: No ☐, Yes ☐ & Broken By: \_\_\_\_\_ Date: \_\_\_\_\_

Laboratory Remarks:

## QUALITY CONTROL SUMMARY FOR VOLATILES SCREEN

METHOD BLANK: A laboratory method blank was analyzed along with this sample to assure the absence of interfering contaminants from lab reagents, instruments, or the general laboratory environment. Unless listed below, no contaminants were detected in this blank above the reported detection limit.

COMPOUND DETECTED	CONCENTRATION (PPB)
No Compounds Detected	

## SURROGATE RECOVERIES:

SURROGATE	CONCENTRATION	% RECOVERY
Fluorobenzene	25 ppb	105.8
2-Bromo-1-chloropropane	15 ppb	91.4

SPIKE RECOVERY: The % recoveries for compounds in the batch

(Continued on page 2.)

ANALYTICAL REPORT  
SLD Accession No. OR-90-0549  
Continuation, Page 2 of 2

spike were from 80% to 120% with the exception of the compounds listed below:

COMPOUND	CONCENTRATION	% RECOVERY
Vinyl chloride	50.0 ppb	54.4
Dichloroethene-1,1	50.0 ppb	79.8
Trichloroethane-1,1,1	50.0 ppb	77.4
Dichloroethane-1,2	50.0 ppb	123.6
Dichlorobenzene-1,4	50.0 ppb	126.4

Analyst: 

Steve R. Davis

*Analyst, Organic Chemistry*

4-20-90  
Analysis

Date

Reviewed By: 

Richard F. Meyerhein

04/25/90  
*Supervisor, Organic Chemistry Section*

APPENDIX B  
DOCUMENTATION:  
WASTE DISPOSAL TRANSPORTATION MANIFESTS AND INVOICES

APPENDIX B

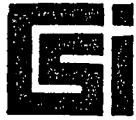
DOCUMENTATION: WASTE DISPOSAL TRANSPORTATION MANIFESTS AND INVOICES

As requested by the OCD (Bill Olson), for purposes of documentation, enclosed are the final sludge and contaminated soil waste disposal invoices, waste transportation and disposal manifests from CSI (and Munchiando Trucking) and Envirotech (and Moss Excavation, Aranda and Atencio Trucking), and a final invoice from the Lower Valley Water Users Association for the 10,800 gallons of water used in site remediation.

RECEIVED SEP 11 1990

INVOICE NO.

109451

**CONSERVATION SERVICES, INC.**

2090 East 104th Ave. Suite 300  
DENVER, COLORADO 80233  
(303) 280-9336 FAX (303) 280-9848

# invoice

From Order# 9078

SOLD TO: DAMES & MOORE  
SUITE 1200  
1125 17TH STREET  
DENVER, CO

MJ

80202-2027

SHIP TO: DAMES & MOORE MJ  
MAVERIK COUNTRY STORES, INC.  
US HWY 550  
KIRKLAND, NM

Page 1

ACCOUNT NO.	SALESMAN NO.	PURCHASE ORDER NO.	SHIP VIA	COL	PPD	DATE SHIPPED	TERMS	INVOICE DATE
DAM100	03		MUNCHIANDO			08/29/90	DUE ON RCPT	08/31/90

QTY ORDERED	QTY SHIPPED	QTY BACK ORDERED	ITEM NO.	DESCRIPTION	UNIT PRICE	DISC %	EXTENDED PRICE
40	40		031214,15	YARDS WASTE DISPSOAL	27.000	0	1080.00
40	40		031216,17	YARDS WASTE DISPOSAL	27.000	0	1080.00
40	40		031220,22	YARDS WASTE DISPOSAL	27.000	0	1080.00
20	20		031223	YARDS WASTE DISPOSAL	27.000	0	540.00
1	1		04012	CSI LAB SAMPLE	50.000	0	50.00
1	1		04011	CSI LAB SAMPLE	50.000	0	50.00
2	2			SUB. CONTR LAB SAMPLE	187.250	0	374.50
12	12		6080	HRS. MUNCHIANDO TRUCK	65.000	0	780.00
8	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
4	4		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
12	12		6080	HRS. MUNCHIANDO TRUCK	65.000	0	780.00
8	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
4	4		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
12	12		6080	HRS. MUNCHIANDO TRUCK	65.000	0	780.00
8	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
4	4		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
12	12		6080	HRS. MUNCHIANDO TRUCK	65.000	0	780.00
8	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
4	4		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
12	12		6080	HRS. MUNCHIANDO TRUCK	65.000	0	780.00
8	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
4	4		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
12	12		6080	HRS. MUNCHIANDO TRUCK	65.000	0	780.00
8	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
4	4		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
16	16		6082	HRS. MUNCHIANDO TRUCK	65.000	0	1040.00
8	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
8	8		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
16	16		6082	HRS. MUNCHIANDO TRUCK	65.000	0	1040.00

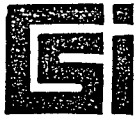
5% OF DISPOSAL COST IS PAID TO ADAMS COUNTY.

\*\*\* C O N T I N U E D \*\*\*

Thank You

SALE AMOUNT	
MISC. CHARGES	
SALES TAX	
FREIGHT	
TOTAL	



**CONSERVATION SERVICES, INC.**

2090 East 104th Ave. Suite 300  
DENVER, COLORADO 80233  
(303) 280-9336 FAX (303) 280-9848

OLD TO: DAMES &amp; MOORE

MJ

SHIP TO: DAMES &amp; MOORE

MJ

QTY. ORDERED	QTY. SHIPPED	QTY. BACK ORDERED	ITEM NO.	DESCRIPTION	UNIT PRICE	DISC. %	EXTENDED PRICE
9	2						

QTY. ORDERED	QTY. SHIPPED	QTY. BACK ORDERED	ITEM NO.	DESCRIPTION	UNIT PRICE	DISC. %	EXTENDED PRICE
	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
	8		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
	16		6082	HRS. MUNCHAINDO TRUCK	65.000	0	1040.00
	8		MUNCHAINDO	HRS. OPERATOR	0.000	0	0.00
	8		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
	16		6082	HRS. OPERATOR	65.000	0	1040.00
	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
	8		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
	16		6082	HRS. MUNCHIANDO TRUCK	65.000	0	1040.00
	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
	8		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
	16		6082	HRS. OPERATOR	65.000	0	1040.00
	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
	8		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
	16		6082	HRS. MUNCHAINDO TRUCK	65.000	0	1040.00
	8		MUNCHIANDO	HRS. OPERATOR	0.000	0	0.00
	8		MUNCHIANDO	HRS. OPERATOR O/T	0.000	0	0.00
	7		PER DIEM	7 MEN PER DIEM	70.000	0	490.00

DISPOSAL COST IS PAID TO ADAMS COUNTY.  
WE APPRECIATE YOUR BUSINESS AND HOPE  
WE CAN CONTINUE TO BE OF SERVICE TO  
YOU IN THE FUTURE...

SALE AMOUNT 17484.50

MISC. CHARGES  
SALES TAX  
FREIGHT

TOTAL 17484.50

*Thank You*

**CONSERVATION SERVICES, INC.****OFFICES**

2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
Fax: 280-9848

**FACILITY**

41800 E. 88th Ave.  
Bennett, CO 80102  
(303) 1-644-4335

N<sup>o</sup> 031214

67

**INDUSTRIAL WASTE DISPOSAL MANIFEST****PART I: TO BE COMPLETED BY SHIPPER/GENERATOR**COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & MooreEMERGENCY PHONE (801) 521-9255RECEIVER'S NAME CONSERVATION SERVICES, INC.BUSINESS ADDRESS 2090 E. 104th Avenue Denver, CO 80233 OFFICE PHONE 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102 SITE PHONE 1-644-4335

QUANTITY	UNITS	WASTE DESCRIPTION	CSI WASTE CODE NUMBER
<u>20</u>	<u>CU. YD</u>	<u>Eastern Sludge Pit</u>	<u>C0-02-082190-04012</u>
		<u>Crude Oil Tank</u>	
		<u>Residue in Soils</u>	

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: 8/10/90TYPE OR PRINT  
ABOVE NAME:William Call**PART II: TO BE COMPLETED BY CARRIER/DRIVER**CARRIER NAME MUNICHIAN DO TRUCKINGBUSINESS ADDRESS 2021 E. 66th AVE.PHONE NO. 288-4253

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:Thomas McHugh**PART III: TO BE COMPLETED BY RECEIVER**RECEIVERS NAME CONSERVATION SERVICES, INC.PHONE NO. Site - 1-644-4335 Office - 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102RECEIVER'S COMMENTS D.B.

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: 8-29-90TYPE OR PRINT  
ABOVE NAME:Troy F. Easterberg

WHITE - ORIGINAL YELLOW - TRANSPORTER PINK - DISPOSAL FACILITY GOLD - GENERATOR

**CONSERVATION SERVICES, INC.****OFFICES**

2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
Fax: 280-9848

**FACILITY**

41800 E. 88th Ave.  
Bennett, CO 80102  
(303) 1-644-4335

No 031215

**INDUSTRIAL WASTE DISPOSAL MANIFEST****PART I: TO BE COMPLETED BY SHIPPER/GENERATOR**COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255RECEIVER'S NAME CONSERVATION SERVICES, INC.BUSINESS ADDRESS 2090 E. 104th Avenue Denver, CO 80233 OFFICE PHONE 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102 SITE PHONE 1-644-4335

QUANTITY	UNITS	WASTE DESCRIPTION	CSI WASTE CODE NUMBER
<u>20 yds</u>		<u>Eastern Sludge Pit</u>	<u>CO-02-082190-04012</u>
		<u>Crude Oil Tank</u>	
		<u>Residue in Soils</u>	

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: 8/10/90TYPE OR PRINT  
ABOVE NAME: William Call**PART II: TO BE COMPLETED BY CARRIER/DRIVER**CARRIER NAME Munchingo TruckingBUSINESS ADDRESS 268 Stanley Rd Idaho Springs, COPHONE NO. 303-288-4253

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: 8/28/90TYPE OR PRINT  
ABOVE NAME: AK SCHONTZ**PART III: TO BE COMPLETED BY RECEIVER**RECEIVERS NAME CONSERVATION SERVICES, INC.PHONE NO. Site - 1-644-4335 Office - 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102RECEIVER'S COMMENTS D.B.

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: 8-29-90TYPE OR PRINT  
ABOVE NAME: Troy F Easterberg

WHITE - ORIGINAL YELLOW - TRANSPORTER PINK - DISPOSAL FACILITY GOLD - GENERATOR

**CONSERVATION SERVICES, INC.****OFFICES**

2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
Fax: 280-9848

**FACILITY**

41800 E. 88th Ave.  
Bennett, CO 80102  
(303) 1-644-4335

No 031216

**INDUSTRIAL WASTE DISPOSAL MANIFEST****PART I: TO BE COMPLETED BY SHIPPER/GENERATOR**COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & MooreEMERGENCY PHONE (801) 521-9255RECEIVER'S NAME CONSERVATION SERVICES, INC.BUSINESS ADDRESS 2090 E. 104th Avenue Denver, CO 80233 OFFICE PHONE 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102 SITE PHONE 1-644-4335

QUANTITY	UNITS	WASTE DESCRIPTION	CSI WASTE CODE NUMBER
<u>20 yds</u>		<u>Eastern Sludge Pit</u>	<u>CO-02-082190-04012</u>
		<u>Crude Oil Tank</u>	
		<u>Residue in Soils</u>	

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: 8/10/90TYPE OR PRINT  
ABOVE NAME:William Call**PART II: TO BE COMPLETED BY CARRIER/DRIVER**CARRIER NAME MUNCHLANDO TRUCKINGBUSINESS ADDRESS 7021 E. 66th AVE DENVER, CO.PHONE NO. 288-4853

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: 8/28/90TYPE OR PRINT  
ABOVE NAME:GREG NILL**PART III: TO BE COMPLETED BY RECEIVER**RECEIVERS NAME CONSERVATION SERVICES, INC.PHONE NO. Site - 1-644-4335 Office - 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102RECEIVER'S COMMENTS D.B.

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: 8-29-90TYPE OR PRINT  
ABOVE NAME:Troy F Easterberg

WHITE - ORIGINAL YELLOW - TRANSPORTER PINK - DISPOSAL FACILITY GOLD - GENERATOR

**CONSERVATION SERVICES, INC.****OFFICES**

2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
Fax: 280-9848

**FACILITY**

41800 E. 88th Ave.  
Bennett, CO 80102  
(303) 1-644-4335

N<sup>o</sup> 031217**INDUSTRIAL WASTE DISPOSAL MANIFEST****PART I: TO BE COMPLETED BY SHIPPER/GENERATOR**

**COMPANY NAME** Maverik Country Stores, Inc.  
**BUSINESS ADDRESS** P.O. Box 457, Afton, Wyoming 83110-0457  
**ADDRESS OF SHIPMENT ORIGIN** U.S. Highway 550, Kirtland, NM  
**AUTHORIZED CONTACT** Terry Vandell, Dames & Moore **EMERGENCY PHONE** (801) 521-9255

**RECEIVER'S NAME** CONSERVATION SERVICES, INC.  
**BUSINESS ADDRESS** 2090 E. 104th Avenue Denver, CO 80233 **OFFICE PHONE** 280-9336  
**SITE ADDRESS** 41800 E. 88th Avenue Bennett, CO 80102 **SITE PHONE** 1-644-4335

QUANTITY	UNITS	WASTE DESCRIPTION	CSI WASTE CODE NUMBER
20		Eastern Sludge Pit	CO-02-082190-04019
		Crude Oil Tank	
		Residue in Soils	

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE:

8/10/90

TYPE OR PRINT  
ABOVE NAME:

William Call**PART II: TO BE COMPLETED BY CARRIER/DRIVER**

**CARRIER NAME** MUNCHIANDO TRUCKING  
**BUSINESS ADDRESS** 2021 E. 66th AVE DENVER, CO  
**PHONE NO.** 288-4253

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE:

8-28-90

TYPE OR PRINT  
ABOVE NAME:

DON ROE**PART III: TO BE COMPLETED BY RECEIVER**

**RECEIVERS NAME** CONSERVATION SERVICES, INC.  
**PHONE NO.** Site - 1-644-4335 Office - 280-9336  
**SITE ADDRESS** 41800 E. 88th Avenue Bennett, CO 80102

**RECEIVER'S COMMENTS**

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE:

8-29-90

TYPE OR PRINT  
ABOVE NAME:

Troy F Easterberg

WHITE - ORIGINAL YELLOW - TRANSPORTER PINK - DISPOSAL FACILITY GOLD - GENERATOR

**CONSERVATION SERVICES, INC.****OFFICES**

2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
Fax: 280-9848

**FACILITY**

41800 E. 88th Ave.  
Bennett, CO 80102  
(303) 1-644-4335

No 031220

63

**INDUSTRIAL WASTE DISPOSAL MANIFEST****PART I: TO BE COMPLETED BY SHIPPER/GENERATOR**COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255RECEIVER'S NAME CONSERVATION SERVICES, INC.BUSINESS ADDRESS 2090 E. 104th Avenue Denver, CO 80233 OFFICE PHONE 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102 SITE PHONE 1-644-4335

QUANTITY	UNITS	WASTE DESCRIPTION	CSI WASTE CODE NUMBER
<u>20</u>	<u>YDS</u>	<u>Eastern Sludge Pit</u>	<u>CO-02-082190-04012</u>
		<u>Crude Oil Tank</u>	
		<u>Residue in Soils</u>	

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
AGENT XDATE: 8/10/90TYPE OR PRINT  
ABOVE NAME: William C. Hill**PART II: TO BE COMPLETED BY CARRIER/DRIVER**CARRIER NAME Munichian TruckingBUSINESS ADDRESS 2021 E 66<sup>TH</sup> DENVER COPHONE NO. 303-288-4253

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT XDATE: 8/28/90TYPE OR PRINT  
ABOVE NAME: William C. Hill**PART III: TO BE COMPLETED BY RECEIVER**RECEIVERS NAME CONSERVATION SERVICES, INC.PHONE NO. Site - 1-644-4335 Office - 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102RECEIVER'S COMMENTS DB

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT XDATE: 8-29-90TYPE OR PRINT  
ABOVE NAME: Beryl H. Rector

WHITE - ORIGINAL YELLOW - TRANSPORTER PINK - DISPOSAL FACILITY GOLD - GENERATOR

**CONSERVATION SERVICES, INC.**

OFFICES

2090 E. 104th Ave.

Denver, CO 80233

(303) 280-9336

Fax: 280-9848

FACILITY

41800 E. 88th Ave.

Bennett, CO 80102

(303) 1-644-4335

N<sup>o</sup> 031222**INDUSTRIAL WASTE DISPOSAL MANIFEST****PART I: TO BE COMPLETED BY SHIPPER/GENERATOR**COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255RECEIVER'S NAME CONSERVATION SERVICES, INC.BUSINESS ADDRESS 2090 E. 104th Avenue Denver, CO 80233 OFFICE PHONE 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102 SITE PHONE 1-644-4335

QUANTITY	UNITS	WASTE DESCRIPTION	CSI WASTE CODE NUMBER
<u>20</u>	<u>cu. yds.</u>	<u>Eastern Sludge Pit</u>	<u>CO-02-082190-04012</u>
		<u>Crude Oil Tank</u>	
		<u>Residue in Soils</u>	

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: 8/10/90TYPE OR PRINT  
ABOVE NAME:William Call**PART II: TO BE COMPLETED BY CARRIER/DRIVER**CARRIER NAME MUNCHIANDO TRUCKINGBUSINESS ADDRESS P.O. Box 430, IDAHO SPGS, Co 80452PHONE NO. (303) 288-4253

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: 08/28/90TYPE OR PRINT  
ABOVE NAME:THOMAS E. BERG**PART III: TO BE COMPLETED BY RECEIVER**RECEIVERS NAME CONSERVATION SERVICES, INC.PHONE NO. Site - 1-644-4335 Office - 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102RECEIVER'S COMMENTS D.B.

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

DATE: 8-29TYPE OR PRINT  
ABOVE NAME:Troy F Easterberg

WHITE - ORIGINAL YELLOW - TRANSPORTER PINK - DISPOSAL FACILITY GOLD - GENERATOR

**CONSERVATION SERVICES, INC.****OFFICES**

2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
Fax: 280-9848

**FACILITY**

41800 E. 88th Ave.  
Bennett, CO 80102  
(303) 1-644-4335

N<sup>o</sup> 031223**INDUSTRIAL WASTE DISPOSAL MANIFEST****PART I: TO BE COMPLETED BY SHIPPER/GENERATOR**COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & MooreEMERGENCY PHONE (801) 521-9255RECEIVER'S NAME CONSERVATION SERVICES, INC.BUSINESS ADDRESS 2090 E. 104th Avenue Denver, CO 80233 OFFICE PHONE 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102 SITE PHONE 1-644-4335

QUANTITY	UNITS	WASTE DESCRIPTION	CSI WASTE CODE NUMBER
<u>20</u>	<u>Yds.</u>	<u>Eastern Sludge Pit</u>	<u>CO-02-082190-04012</u>
		<u>Crude Oil Tank</u>	
		<u>Residue in Soils</u>	

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

William Call

DATE:

8/10/90TYPE OR PRINT  
ABOVE NAME:William Call**PART II: TO BE COMPLETED BY CARRIER/DRIVER**

CARRIER NAME

Munchiando Trucking

BUSINESS ADDRESS

268 Stanley Rd. Idaho Springs CO

PHONE NO.

303-288-4253

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

Deek Henderson

DATE:

8/28/90TYPE OR PRINT  
ABOVE NAME:Deek Henderson**PART III: TO BE COMPLETED BY RECEIVER**RECEIVERS NAME CONSERVATION SERVICES, INC.PHONE NO. Site - 1-644-4335 Office - 280-9336SITE ADDRESS 41800 E. 88th Avenue Bennett, CO 80102

RECEIVER'S COMMENTS

D.D.

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT

X

Troy F. Easterberg

DATE:

8-29-90TYPE OR PRINT  
ABOVE NAME:Troy F. Easterberg

WHITE - ORIGINAL YELLOW - TRANSPORTER PINK - DISPOSAL FACILITY GOLD - GENERATOR





**CONSERVATION SERVICES, INC.**

**OFFICES**  
2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
FAX 280-9848

**FACILITY**  
41800 East 88th Ave.  
Bennett, CO 80102  
(303) 644-4335

## JOB LOG

SERVICE REQUEST NO. 6080

DATE 8-27-90

JOB NO. 03-00821

## CONTACT

P.O. NO. \_\_\_\_\_

CUSTOMER JAMES F MOORE

EMPLOYEE

LOCATION U.S. HIGHWAY 330 KIRILAND N.M.

EQUIPMENT  
NO. & TYPE

## CODES

**LEAVE CSI**

## 5. FINISH LOADING

## 8. START OFF LOADING

## 12. ARRIVE CSI

## 2. ARRIVE JOB SITE

## 6. PAPER WORK

## 9. FINISH OFF LOADING

### 13. SPECIAL (EXPLAIN)

### 3. START LOADING

## 7. JOB FINISHED

## 10. JOB FINISHED

14. STANDBY (EXPLAIN)

**CONTINUE LOADING**

## 11. LEAVE JOB SITE

DATE \_\_\_\_\_

TIME AM/PM

**CODE**

**EXPLANATION**

8-27-90

7:00 A.M.

LEAH DENNER

13.5.54

ROAD TIME TO FARMINGTON NEW MEX

7:00 PM

### Mileage

Ending :

**Starting :**

TOTAL :

**COMMENTS:**

WORK VERIFICATION



# CONSERVATION SERVICES, INC.

OFFICES  
2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
FAX 280-9848

FACILITY  
41800 East 88th Ave.  
Bennett, CO 80102  
(303) 644-4335

## SERVICE REQUEST

No 6082



CUSTOMER DAMES & MOORE DATE 8/28/90

LOCATION U.S. Highway 550 Kirtland ~~2500~~ N.M. JOB # 03-00829

P.O. OR CONTRACT NO. \_\_\_\_\_ ISSUED BY J. Huser

EQUIPMENT				MISC. EQUIPMENT		
TRUCK NO.	TRAILER NO.	CAP	TYPE	TYPE	QTY.	HOURS/DAYS
502		20 W.D.	SLUDGE			
503		"	"			
127		"	"			
4		"	"			
20		"	"			
3		"	"			
19		"	"			

PERSONNEL						
DATE	NAME	CLASS	BEGAN	FINISHED	HRS.-MILES	AUTHORIZATION
8-28-90	MUNCHIANDO		7:00 A.M.	11:00 P.M.	16	Craig Ad.
	MUNCHIANDO		"	"	16	
	MUNCHIANDO		"	"	16	
	MUNCHIANDO		"	"	16	
	MUNCHIANDO		"	"	16	
	MUNCHIANDO		"	"	16	
	MUNCHIANDO		"	"	16	
TOTAL HOURS					112	

DISPOSAL							
DATE	MANIFEST NO.	QUANTITY	DESCRIPTION	DATE	MANIFEST NO.	QUANTITY	DESCRIPTION
8-28-90	031214	20 yds	Sludge	8-28-90	031216	20 yds	SLUDGE
8-28-90	031222	20 yds	"	8-28-90	031220	20 yds	"
8-28-90	031223	20 yds	"	8-28-90	031217	20 yds	"
				8-28-90	031215	20 yds	"

SERVICES PERFORMED -  
EQUIPMENT - SAFETY GEAR

**CONSERVATION SERVICES, INC.**

**OFFICES**  
\*2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
FAX 280-9848

**FACILITY**  
41800 East 88th Ave.  
Bennett, CO 80102  
(303) 644-4335

## JOB LOG

SERVICE  
REQUEST NO.

6082

DATE \_\_\_\_\_

8-78-90

JOB NO. 1-AMF-9-1100K CONTACT

P.O. NO.

CUSTOMER 03-000-1

EMPLOYEE

LOCATION U.S. HIGHWAY 530 KIRILAND, N.M.

EQUIPMENT  
NO. & TYPE

CODES

- |                     |                   |                       |                       |
|---------------------|-------------------|-----------------------|-----------------------|
| 1. LEAVE CSI        | 5. FINISH LOADING | 8. START OFF LOADING  | 12. ARRIVE CSI        |
| 2. ARRIVE JOB SITE  | 6. PAPER WORK     | 9. FINISH OFF LOADING | 13. SPECIAL (EXPLAIN) |
| 3. START LOADING    | 7. JOB FINISHED   | 10. JOB FINISHED      | 14. STANDBY (EXPLAIN) |
| 4. CONTINUE LOADING |                   | 11. LEAVE JOB SITE    |                       |

[illegible]

COMMENTS:

### WORK VERIFICATION

# CONSERVATION SERVICES, INC.

## OFFICES

2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
Fax: 280-9848

## FACILITY

41800 E. 88th Ave.  
Bennett, CO 80102  
(303) 1-644-4335

CSI Waste Code No. 00-02-C82190-04011

EPA I.D. NO. \_\_\_\_\_

## INDUSTRIAL WASTE CHARACTERIZATION DATA

In order for us to determine whether we can lawfully and safely transport, treat, and dispose of your waste material, we must obtain certain information about the chemical and physical properties of the waste, and its chemical composition and regulatory status. Please be complete and answer each question by circling "YES" or "NO", checking the appropriate boxes, or filling in the blanks. Answers must be in ink or typewritten and the completed form must be signed by the generator. Please attach all available analyses.

## GENERATOR INFORMATION

CUSTOMER NAME: Maverik Country Stores, Inc.  
MAILING ADDRESS: P.O. Box 457  
Afton, Wyoming 83110-0457  
FACILITY ADDRESS: U.S. Highway #550  
Kirtland, NM  
IS BILLING ADDRESS THE SAME AS MAILING ADDRESS? YES X NO  
IF YOU HAVE USED CSI BEFORE GIVE CUSTOMER # \_\_\_\_\_

## CUSTOMER CONTACT

NAME Mr. William Call  
TITLE President  
PHONE (307) 886-3551  
BROKER NAME Dames & Moore  
BROKER CONTACT Terry Vandell  
BROKER PHONE # (801) 521-9255  
REAPPROVAL OF WASTE # \_\_\_\_\_

## SOURCE OF WASTE

Waste Name: Soil beneath sludge at Eastern Sludge  
Process Generating Waste Pit  
Crude Oil Tank  
Residue

Describe the business of generator

Oil refining

SIC \_\_\_\_\_

Waste from: ☐ EPA ☐ City/County/State Agency ☒ Private Party  
Shipment Mode: ☒ Bulk ☐ Drums ☐ Woven Bags ☐ Pallets ☐ Other  
Estimated Volume 70 ☐ Gallons ☐ Lbs. ☒ Cubic Yards  
☐ Drums ☐ Other  
Per: ☐ Day ☐ Month ☐ Year or ☒ One Time

## WASTE PROPERTIES AND COMPOSITION

### 1 APPEARANCE

Color Grey  
Odor HC

### 2 PHASES

☒ Single  
☐ Bilayered  
☐ Multi-layered

### 3 pH

☐ < 2 ☐ 8-10  
☐ 2-6 ☐ 10-12.5  
☒ 6-8 ☐ > 12.5  
Actual \_\_\_\_\_

### 4 FLASH POINT (closed cup)

☐ < 100°F  
☐ 100°F-140°F  
☐ 140°F-160°F  
☒ 160°F-200°F  
☐ > 200°F  
Actual \_\_\_\_\_  
☐ Oxidizer

### 5 PHYSICAL STATE

☐ Oil  
☐ Liquid (water)  
☐ Sludge  
☐ Damp solid  
☐ Dry solid  
☐ Powder  
☐ Filter cake  
☒ Soil  
☐ Concrete  
☐ Debris  
☐ Lab pack  
☐ Incinerat. ash  
☐ Other

### 6 Chemical Composition and Constituents ( ) % ( ) PPM or % Range (List all known) Lower Upper

See Enseco Results ( ) ( )  
80 MESP-SO1 ( ) ( )  
( ) ( )  
( ) ( )  
( ) ( )  
( ) ( )  
( ) ( )  
( ) ( )  
( ) ( )

### 7 SPECIFIC GRAVITY

☐ < 0.8 ☐ 1.4-1.7  
☐ 0.8-1.0 ☐ > 1.7  
☐ 1.0-1.2 ☐ \_\_\_\_\_  
☒ 1.2-1.4 Actual

### 8 TOTAL SUSPENDED SOLIDS (% WT.)

☐ < 0.5 ☐ > 20  
☐ 0.5-2.0 ☐ \_\_\_\_\_  
☐ 2-5 Actual  
☐ 5-20 % Free Liquid

### 9 VISCOSITY (similar to)

☒ TAR  
☒ HONEY  
☐ MOTOR OIL  
☐ WATER

## REGULATORY QUESTIONS

Is the waste a hazardous waste as defined by RCRA in 40 CFR Part 261? Yes No  
Is the waste stream from a non-specific source listed in 40 CFR Part 261.31 (F Codes)? Yes No  
Is the waste stream from a specific source listed in 40 CFR Part 261.32 (K Codes)? Yes No  
Is the waste from a discarded commercial chemical product, specification species, container residue and/or spill residue listed in 40 CFR 261.33 (P Codes and U Codes)? Yes No  
Does the waste have any hazardous characteristics listed in 40 CFR 261.2, Subpart C (D Codes)? Yes No  
Is the waste specifically excluded from hazardous waste regulations in 40 CFR Part 261.4? Yes No  
If so, attach an explanation including the portion of 40 CFR Part 261.4 where the exclusion is mentioned.  
Is the waste mixed with a hazardous waste? Yes No  
Is the waste being legally treated for a single hazardous characteristic? If so, attach an explanation. Yes No

## WASTE CLASSIFICATION

Is the waste: ☐ An unused product ☐ Used oil fuel  
☒ A spill clean up residue ☐ Demolition/construction debris  
☐ From a manufacturing process ☐ From a WWT system  
☐ From an UST removal project ☐ From a sand or grease trap  
Does the waste contain:  
☐ PCB's Levels (ppm) ☐ < 1.0 ☐ 1-10 ☐ 10-25 ☐ 25-50  
☐ Radioactives ☐ Carcinogens ☐ Biocides ☐ Infectious Waste  
☐ Pathogens ☐ Biological Agents ☐ Etiological Agents ☐ Asbestos  
☐ Controlled Substances ☐ Pharmaceuticals ☐ Gasoline ☐ Oil  
☐ Diesel Fuel ☒ Other Hydrocarbons

## WASTE DETERMINATION

The information listed is based on: ☒ Knowledge of Process  
☐ CSI Analysis ☒ Independent Analysis ☐ MSDS's ☐ Other  
Analysis attached: ☒ EP Toxicity (metals) ☐ EP Toxicity Pest/Herb  
☒ VOC ☐ Semi-Volatile ☐ TCLP ☒ TOX ☐ PCB ☐ TPH ☐ BTEX  
☐ Total Metals ☐ MSDS's ☐ Method 8240 ☐ Method 8270  
☐ Other \_\_\_\_\_

## AUTHORIZED SIGNATORY

I hereby certify that all information submitted, in this and all attached documents, is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omissions of composition or properties exists, and that all known or suspected hazards have been disclosed.  
A sample representative of the waste has been collected using EPA approved methods and has been or is being sent to CSI's laboratory.

PRINT NAME: William Call

SIGNATURE: William Call

TITLE: President, Maverik Country Stores, Inc.

DATE: 8/10/90

**CONSERVATION SERVICES, INC.**  
OFFICES FACILITY  
2090 E. 104th Ave. 41800 E. 88th Ave.  
Denver, CO 80233 Bennett, CO 80102  
(303) 280-9336 (303) 1-644-4335  
Fax: 280-9848

CSI Waste Code No. 00-02-082190-0402  
EPA I.D. NO. \_\_\_\_\_

**INDUSTRIAL WASTE CHARACTERIZATION DATA**

In order for us to determine whether we can lawfully and safely transport, treat, and dispose of your waste material, we must obtain certain information about the chemical and physical properties of the waste, and its chemical composition and regulatory status. Please be complete and answer each question by circling "YES" or "NO", checking the appropriate boxes, or filling in the blanks. Answers must be in ink or typewritten and the completed form must be signed by the generator. Please attach all available analyses.

GENERATOR INFORMATION		CUSTOMER CONTACT	
CUSTOMER NAME:	<u>Maverik Country Stores, Inc.</u>	NAME	<u>Mr. William Call</u>
MAILING ADDRESS:	<u>P.O. Box 457</u>	TITLE	<u>President</u>
	<u>Afton, WY 83110-0457</u>	PHONE	<u>(307) 886-3551</u>
FACILITY ADDRESS:	<u>U.S. Highway #550</u>	BROKER NAME	<u>Dames &amp; Moore</u>
	<u>Kirtland, NM,</u>	BROKER CONTACT	<u>Terry Vandell</u>
IS BILLING ADDRESS THE SAME AS MAILING ADDRESS? _____ YES <u>X</u> NO		BROKER PHONE #	<u>(801) 521-9255</u>
IF YOU HAVE USED CSI BEFORE GIVE CUSTOMER # _____		REAPPROVAL OF WASTE #	_____

SOURCE OF WASTE	Describe the business of generator
Waste Name: <u>Sludge at Eastern Sludge Pit</u>	<u>Oil refining</u> SIC _____
Process Generating Waste <u>Crude Oil Tank Sludge</u>	Waste from: <input type="checkbox"/> EPA <input type="checkbox"/> City/County/State Agency <input checked="" type="checkbox"/> Private Party
	Shipment Mode: <input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Drums <input type="checkbox"/> Woven Bags <input type="checkbox"/> Pallets <input type="checkbox"/> Other
	Estimated Volume <u>70</u> <input type="checkbox"/> Gallons <input type="checkbox"/> Lbs. <input checked="" type="checkbox"/> Cubic Yards
	<input type="checkbox"/> Drums <input type="checkbox"/> Other _____
	Per: <input type="checkbox"/> Day <input type="checkbox"/> Month <input type="checkbox"/> Year or <input checked="" type="checkbox"/> One Time

WASTE PROPERTIES AND COMPOSITION					
<b>1 APPEARANCE</b>	<b>2 PHASES</b>	<b>3 pH</b>	<b>4 FLASH POINT</b>	<b>5 PHYSICAL STATE</b>	<b>6 Chemical Composition</b>
Color <u>Grey-black</u>	<input checked="" type="checkbox"/> Single	<input type="checkbox"/> < 2	(closed cup)	<input type="checkbox"/> Oil	and Constituents ( ) %
Odor <u>HC</u>	<input type="checkbox"/> Bilayered	<input type="checkbox"/> 2-6	<input type="checkbox"/> < 100°F	<input checked="" type="checkbox"/> Liquid (water)	(must total 100%)
	<input type="checkbox"/> Multi-layered	<input type="checkbox"/> > 12.5	<input type="checkbox"/> 100°F-140°F	<input checked="" type="checkbox"/> Sludge	(List all known)
		<input checked="" type="checkbox"/> 6-8	<input type="checkbox"/> 140°F-160°F	<input type="checkbox"/> Damp solid	( ) PPM or % Range
		Actual	<input checked="" type="checkbox"/> 160°F-200°F	<input type="checkbox"/> Dry solid	Lower Upper
<b>7 SPECIFIC GRAVITY</b>	<b>8 TOTAL SUSPENDED SOLIDS (% WT.)</b>	<b>9 VISCOSITY</b>	<input type="checkbox"/> > 200°F	<input type="checkbox"/> Powder	<u>See Enseco Results</u>
<input type="checkbox"/> < 0.8 <input type="checkbox"/> 1.4-1.7	<input type="checkbox"/> < 0.5 <input type="checkbox"/> > 20	(similar to)	Actual	<input type="checkbox"/> Filter cake	<u>MESP-SI.1</u>
<input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> > 1.7	<input type="checkbox"/> 0.5-2.0 <input type="checkbox"/> _____	<input checked="" type="checkbox"/> TAR	<input type="checkbox"/> Oxidizer	<input type="checkbox"/> Soil	( ) ( )
<input type="checkbox"/> 1.0-1.2 <input type="checkbox"/> _____	<input type="checkbox"/> 2-5 Actual	<input type="checkbox"/> HONEY		<input type="checkbox"/> Concrete	( ) ( )
<input type="checkbox"/> 1.2-1.4 Actual	<input type="checkbox"/> 5-20 % Free Liquid	<input type="checkbox"/> MOTOR OIL		<input type="checkbox"/> Debris	( ) ( )
		<input type="checkbox"/> WATER		<input type="checkbox"/> Lab pack	( ) ( )
				<input type="checkbox"/> Incinerat. ash	( ) ( )
				<input type="checkbox"/> Other	( ) ( )

REGULATORY QUESTIONS		WASTE CLASSIFICATION	
Is the waste a hazardous waste as defined by RCRA in 40 CFR Part 261?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the waste:	<input type="checkbox"/> An unused product <input type="checkbox"/> Used oil fuel
Is the waste stream from a non-specific source listed in 40 CFR Part 261.31 (F Codes)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> A spill clean up residue	<input type="checkbox"/> Demolition/construction debris
Is the waste stream from a specific source listed in 40 CFR Part 261.32 (K Codes)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<input type="checkbox"/> From a manufacturing process	<input type="checkbox"/> From a WWT system
Is the waste from a discarded commercial chemical product, off specification species, container residue and/or spill residue listed in 40 CFR 261.33 (P Codes and U Codes)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<input type="checkbox"/> From an UST removal project	<input type="checkbox"/> From a sand or grease trap
Does the waste have any hazardous characteristics listed in 40 CFR 261.2, Subpart C (D Codes)?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Does the waste contain:	
Is the waste specifically excluded from hazardous waste regulations in 40 CFR Part 261.4?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<input type="checkbox"/> PCB's Levels (ppm) <input type="checkbox"/> < 1.0 <input type="checkbox"/> 1-10 <input type="checkbox"/> 10-25 <input type="checkbox"/> 25-50	
If so, attach an explanation including the portion of 40 CFR Part 261.4 where the exclusion is mentioned.		<input type="checkbox"/> Radioactives <input type="checkbox"/> Carcinogens <input type="checkbox"/> Biocides <input type="checkbox"/> Infectious Waste	
Is the waste mixed with a hazardous waste?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<input type="checkbox"/> Pathogens <input type="checkbox"/> Biological Agents <input type="checkbox"/> Etiological Agents <input type="checkbox"/> Asbestos	
Is the waste being legally treated for a single hazardous characteristic? If so, attach an explanation.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	<input type="checkbox"/> Controlled Substances <input type="checkbox"/> Pharmaceuticals <input type="checkbox"/> Gasoline <input type="checkbox"/> Oil	
		<input type="checkbox"/> Diesel Fuel <input checked="" type="checkbox"/> Other Hydrocarbons	
		<b>F. WASTE DETERMINATION</b>	
		The information listed is based on: <input checked="" type="checkbox"/> Knowledge of Process	
		<input type="checkbox"/> CSI Analysis <input checked="" type="checkbox"/> Independent Analysis <input type="checkbox"/> MSDS's <input type="checkbox"/> Other	
		Analysis attached: <input checked="" type="checkbox"/> EP Toxicity (metals) <input type="checkbox"/> EP Toxicity Pest/Herb	
		<input type="checkbox"/> VOC <input type="checkbox"/> Semi-Volatile <input type="checkbox"/> TCLP <input checked="" type="checkbox"/> TOX <input type="checkbox"/> PCB <input type="checkbox"/> TPH <input type="checkbox"/> BTEX	
		<input type="checkbox"/> Total Metals <input type="checkbox"/> MSDS's <input type="checkbox"/> Method 8240 <input type="checkbox"/> Method 8270	
		<input type="checkbox"/> Other _____	

**G. AUTHORIZED SIGNATORY**

I hereby certify that all information submitted, in this and all attached documents, is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omissions of composition or properties exists, and that all known or suspected hazards have been disclosed.

A sample representative of the waste has been collected using EPA approved methods and has been or is being sent to CSI's laboratory.

PRINT NAME: William Call SIGNATURE: William Call

TITLE: President, Maverik Country Stores, Inc. DATE: 8/10/90

DAMES & MOORE  
127 South 500 East  
Suite 300  
Salt Lake City, Utah 84102-1959

# INVOICE

ENDOR NO. 089625  
 REG. OFF. 031  
 INV NO. 82790-83190  
 INVOICE DATE 9-13-90  
 MONTH 7 WK. 2  
 PROCESSED BY M  
 BUS NO. 5LC 293  
 ENTRY NO. 652604  
 ENTERED BY: M  
 POST CODE 555  
 DATES 1st 30day from  
 Invoice date

350 @ \$800/cu. yd.	\$ 2,800.00
946 @ \$12.00/cu. yd.	<u>11,352.00</u>
	\$14,152.00
NM Gross Receipts @ 5.75%	<u>813.74</u>
TOTAL DUE	\$14,965.74

[illegible]



**DAMES & MOORE**

A PROFESSIONAL LIMITED PARTNERSHIP

September 10, 1990

Envirotech  
3111 Knudsen  
Farmington, NH 87401

Attention: Mr. Morris Young,  
President

Re: Industrial Waste Disposal Manifests For The Disposal Of Tank  
Farm Contaminated Wastes and Soils From The Maverik Country  
Stores Inc. Tank Farm To Envirotech's Disposal Site near  
Bloomfield, New Mexico

Dear Mr. Young:

As per our telephone conversation of September 5, 1990, enclosed are the 108 industrial waste disposal manifests for the soil and sludge that were removed from Maverik Country Store's tank farm in Kirtland, New Mexico and shipped, via 12 cubic yard capacity trucks (from August 27 through August 31, 1990), to your disposal site near Bloomfield, New Mexico. Copies of these manifests will also be included in a final remediation report to be submitted to Bill Olson of the OCD.

If you have any questions on the enclosed, please do not hesitate to contact me at (801) 521-9255.

Very Truly Yours,

Terry D. Vandell



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>M2E</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <u>mark it 3060</u>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 343 ALONA VISTA N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-27-90TYPE OR PRINT  
ABOVE NAME:Curtis B. Wilson  
CURTIS B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery~~ <sup>M2E</sup> Hammond Ditch Road / Bloomfield, NM ENVIROTECH DISPOSAL SITE  
ACROSS HWY FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-27-90TYPE OR PRINT  
ABOVE NAME:Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>MZE</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <sup>tank # 5 West</sup> <u>30060</u> <sup>cont</sup>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT x Craig Scola

DATE: 8/27/90

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 343 FLORA VISTA N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT x Curtis B. Wilson

DATE: 8-27-90

TYPE OR PRINT ABOVE NAME: CURTIS B. WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery~~ <sup>MZE</sup> Hammond Ditch Road / Bloomfield, NM ENVIROTECH DISPOSAL SITE  
ACROSS FROM HILLTOP THRIFTWAY HW 44  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT x Michael T. Eason

DATE: 8-27-90

TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>NZ</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank <del>THANKS</del>
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <del>30060</del>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 343 PLATA VISTA N.M. 87415  
 PHONE NO. 334-6947

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-27-90

TYPE OR PRINT  
ABOVE NAME: CURTIS R Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road~~ <sup>NZ</sup> Bloomfield, NM ENVIROTECH DISPOSAL  
 RECEIVER'S COMMENTS SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-27-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.

BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457

ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM

AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m28</sup>Thriftway Disposal Site

BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822

SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <i>John #30060</i>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXPLORATION

BUSINESS ADDRESS P.O. Box 343 HONA U.S.A N.m. 87415

PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 5-27-90

TYPE OR PRINT ABOVE NAME: Capt B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young

PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway-Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH DISPOSAL SITE

RECEIVER'S COMMENTS ACROSS HW FROM HILL TOP THRIFTWAY

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-27-90

TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>MRE</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) 30060
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Mass Excavation  
 BUSINESS ADDRESS P.O. Box 343 Florida Vista NM 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8/27/90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway-Refinery/<sup>MRE</sup> Hammond Ditch Road /Bloomfield, NM ENVIROTECH DISPOSAL  
SITE ACROSS FROM HILLTOP THRIFTWAY HW 44  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-27-90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>MRE</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE:

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS P.O. Box 343 Place Vista NM 87415  
 PHONE NO. 34-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway-Refinery/<sup>MRE</sup> Hammond Ditch Road / Bloomfield, NM ENVIROTECH DISPOSAL SITE  
 RECEIVER'S COMMENTS ACROSS HW FROM HILLTOP THRIFTWAY

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:

MICHAEL T. EDSON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>M2C</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <u>300 60</u>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Mass Exponent  
 BUSINESS ADDRESS Box 343 Finney Vista  
 PHONE NO. \_\_\_\_\_

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X Walter Michael

8-27-90 DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>M2C</sup> ENVIROTECH DISPOSAL SITE  
 RECEIVER'S COMMENTS ACROSS HW 44 FROM HILLTOP THRIFTWAY

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X Michael T. Eason

DATE: 8-27-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact ☒ \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS Exterminators  
 BUSINESS ADDRESS PO 343 Flor Vista  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-27-90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway-Refinery/<sup>m2c</sup> Hammond Ditch Road /Bloomfield, NM ENVIROTECH DISPOSAL SITE  
 RECEIVER'S COMMENTS ACROSS HW 44 FROM HILLTOP THRIFTWAY

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-27-90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

MICHAEL T. GASON





## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech ~~Site 1~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) 30060
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE:

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Atencio Trucking  
 BUSINESS ADDRESS 1404 Gullidge Rd FARM  
 PHONE NO. 327-3287

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:

Vicente Atencio  
Vicente Atencio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ Highway 44 East of Thriftway Store  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:

8-28-90

# 7

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Enviro~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aranda Trucking  
 BUSINESS ADDRESS #16 CR 5470 Farmington N. M.  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Hammond Ditch Road, Bloomfield, NM~~ 11300 Hwy 44 East Hulet  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90TYPE OR PRINT  
ABOVE NAME:Re Forwarded

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Arasche Trucking  
 BUSINESS ADDRESS #16 C.R. 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road~~ Bloomfield, NM <sup>Highway 41</sup> <sup>East Hilltop</sup>  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-25-90

TYPE OR PRINT  
ABOVE NAME:

#1

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~XXXXXX~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 343 SLOPA VISTA NM 87415  
 PHONE NO. 3346967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Curtis B. Wilson  
Curtis B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Harris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway B. Sincery~~ Hammond Ditch Road / Bloomfield, NM Amory 44

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-28-90

REX FARMER

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~XXXXXX~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 343 Alona Vista N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road, Bloomfield, NM~~ 444  
Wickup

RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

REX FARNSWORTH

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact ☒ \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Beards Trucking  
 BUSINESS ADDRESS H 16 CR 5470 Farmington NM  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME: Dwayne Brown

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway-Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>m2</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Thompson~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) 300 60
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Atencio Trucking  
 BUSINESS ADDRESS 1404 Bulledge Rd Farm  
 PHONE NO. 327 3787

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME:

Vicente Atencio  
Vicente Atencio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway to Emery/Hammond Ditch Road/Bloomfield, NM~~ Henry 44  
Emery Hilltop

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME:

RETRANSITION



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Waste~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <u>30068</u>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aterio Trucking  
 BUSINESS ADDRESS 1404 Gullwater Rd Farm  
 PHONE NO. 327-3787

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: 8-28-90TYPE OR PRINT  
ABOVE NAME:Vicente Alencar

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftyway Refinery/Hammond Ditch Road/Bloomfield, NM~~ 44 Edw Hillyer

RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: 8-28-90TYPE OR PRINT  
ABOVE NAME:REX Farnsworth

No. 10  
7

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Environmental~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) 200 60
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS & ASSOCIATES  
 BUSINESS ADDRESS P.O. Box 343 PLOPA VISTA N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X Russell Moss

DATE: 8/24/90

TYPE OR PRINT ABOVE NAME: Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Hammond Ditch Road, Bloomfield, NM~~ Highway 44 East Hulet  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X Rex Farnsworth

DATE: 8-28-90

TYPE OR PRINT ABOVE NAME: Rex Farnsworth

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Disposal~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil <del>From Crude Oil Tank (Drums too)</del> 30000
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Examination  
 BUSINESS ADDRESS Flora Vista NM PO Box 743  
 PHONE NO. 334-6867

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8/28/90

TYPE OR PRINT  
ABOVE NAME: Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thief River Refinery/Hammond Ditch Road/Bloomfield, NM~~ Highway 44  
Hilltop

RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90.

TYPE OR PRINT  
ABOVE NAME: REX Farnsworth

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/██████████ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) 30060
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS PO Box 343 Flora, N.M. 87415  
 PHONE NO. 334 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8/24/90

TYPE OR PRINT  
ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~The Flamingo Refinery/Hammond Ditch Road/Bloomfield, NM~~ Highway 427 Hilltop Road of the Big Horn  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME:

#7

RE: Flamingo

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~REDACTED~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) 70080
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS PO Box 343 Flora NM 87415  
 PHONE NO. 334-0868

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Russell Moss  
Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Hammond Ditch Road / Bloomfield, NM~~ Highway 214 East of Trinity Stone  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-28-90

REX FARMER

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) 300'0
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS PO Box 343 Floca, NM 87415  
 PHONE NO. 334-6267

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway-Refinery/Hammond Ditch Road /Bloomfield, NM  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-28-90  
#3

REX Farnsworth

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~XXXXXX~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <u>TANK # 3060</u>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 343 Flora Vista N.M. 87415  
 PHONE NO. 354-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME:

Curt B. Wilson  
Curt B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Hammond Ditch Road / Bloomfield, NM~~ Hilltop East of Hwy 44  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME:

RE: Farnsworth

# 2

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Hammond~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <i>Handwritten: 11/11/90 20060</i>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 343 Plaza Vista N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90TYPE OR PRINT  
ABOVE NAME:Curtis B. W. / son

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~The Hammon Refinery/Hammond Ditch Road/Bloomfield, NM~~ Hwy 44 East of Thirty 500  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90TYPE OR PRINT  
ABOVE NAME:REX FRANKS



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <i>Drum # 30080</i>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE:

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS Excavation  
 BUSINESS ADDRESS P.O. Box 243 PLOMA VISTA N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:8-28-90Curtis B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Theriffway Balinory Hammond Ditch Road Bloomfield NM~~ *Highway 44 East Ditch Stoned*

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:8-28-90REX Farnsworth

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Disposal Site~~  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <u>1A H 5668</u>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 343 FLORA VISTA N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME:

Curtis B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~The Highway Refinery/Hammond Ditch Road (Bloomfield, NM)~~ Highway #4  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME:

RECEIVED

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~XXXXXX~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <u>30060</u>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS Excavation  
 BUSINESS ADDRESS Box 343 Flora Vista  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME:

Walter Michael

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~The 11th St. S. by Hammond Ditch Road, Bloomfield, NM~~ Highway 44 Highway East of Tuffney Store  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME:

Rex Farnsworth

#2

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~XXXXXX~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) <u>30066</u>
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT x *Walter Michael*

DATE: 8-28-90

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS E-valuation  
 BUSINESS ADDRESS Flora Vista Box 343  
 PHONE NO. 334 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT x *Walter Michael*

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thief River Falls, MN~~ Highway 44 East of Thief River Falls, MN  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT x *Rex Farnsworth*

DATE: 8-28-90

TYPE OR PRINT ABOVE NAME: \_\_\_\_\_

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too), 30060
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: 8-18-90

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Mass Excavation  
 BUSINESS ADDRESS 334-6967 Box 243 Flora Vista  
 PHONE NO. 334 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

TYPE OR PRINT  
ABOVE NAME:

DATE:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~

Hiway 44  
East of Thrifty  
stone

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

TYPE OR PRINT  
ABOVE NAME:

DATE: 8-28-90

REXAMOWORTH

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Waste~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too) 30060
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Flores Vista POB 342  
 PHONE NO. 334 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Highway Refinery/Hammond Ditch Road/Bloomfield, NM~~ 44: Highway 550  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90.  
#4

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

B. J. Francisco

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME ABANDA Trucking  
 BUSINESS ADDRESS # 16 CR 5470 Farmington  
 PHONE NO. 632 3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME: Dwayne Brown

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILL TOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON





# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME ARANDA Trucking  
 BUSINESS ADDRESS #16 CR 5470 Farmington  
 PHONE NO. 632 3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

Dwaine Brown

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL  
 SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-27-90

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m26</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aranda Trucking  
 BUSINESS ADDRESS #116 CR 5470 Farmington  
 PHONE NO. (505) 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>m26</sup> ENVIROTECH SOIL DISPOSAL  
 SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aranda Trucking  
 BUSINESS ADDRESS #16 CR 5470 Farmington  
 PHONE NO. 632 3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery~~ <sup>m2c</sup> Hammond Ditch Road / Bloomfield, NM ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: MICHAEL T PASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & MooreEMERGENCY PHONE (801) 521-9255RECEIVER'S NAME Envirotech/<sup>m2c</sup>Thriftway Disposal SiteBUSINESS ADDRESS Bloomfield, New MexicoOFFICE PHONE (505) 326-2822SITE ADDRESS Hammond Ditch RoadSITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE:

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME ARANDA TruckingBUSINESS ADDRESS #16 RR 5470 Farmington NMPHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:8-29-90Dwayne Brown

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris YoungPHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>m2c</sup> ENVIROTECH SOIL DISPOSAL

SITE ACROSS HW 44 FROM HILL TOP THRIFTWAY

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:8-29-90Michael J. EasonMICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>M2E</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME ARANDA TRUCKING  
 BUSINESS ADDRESS #16 CR 5470 Farmington  
 PHONE NO. 632 3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: Dwayne Brown

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>M2E</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Flora Vista, P.O. Box 343 N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Michael L. Wilson

MICHAEL L. WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Harris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway-Refinery/Hammond Ditch Road /Bloomfield, NM

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Aug 29, 90

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Flora Vista P.O. Box 343 N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL L. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway-Refinery/Hammond Ditch Road /Bloomfield, NM  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: Aug 29, 90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Alton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil <del>From Crude Oil Tank</del> (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS Excavation  
 BUSINESS ADDRESS 1. Sparks Vista POB 343  
 PHONE NO 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

Walter Michos

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Morris Young  
 PHONE NO (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>m2c</sup> ENVIROTECH SOIL DISPOSAL SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY.  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m12</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact ☒ \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Transportation  
 BUSINESS ADDRESS Flora Vista BOB 343  
 PHONE NO. 334. 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY.  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>M2C</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME GROSS Excavation  
 BUSINESS ADDRESS Flora Vista POB 342  
 PHONE NO. 334 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Norris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>M2C</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>mxc</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact ☒ \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Paradise Vista POB 343  
 PHONE NO. 334 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ Walter M. King

DATE: 8-24-90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH <sup>Soil</sup> DISPOSAL  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY.  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ Michael T. Eason

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & MooreEMERGENCY PHONE (801) 521-9255RECEIVER'S NAME Envirotech <sup>mzc</sup> Thriftway Disposal SiteBUSINESS ADDRESS Bloomfield, New MexicoOFFICE PHONE (505) 326-2822SITE ADDRESS Hammond Ditch RoadSITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		Site 5

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact ☒ \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS ELEVATIONBUSINESS ADDRESS Floer Vista P.O.B 343PHONE NO. 334 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ Walter Michael

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris YoungPHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HWY 44 FROM HILLTOP THRIFTWAY

RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ Michael T. Eason

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		<u>Site 5</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS Excavation  
 BUSINESS ADDRESS Flato Nista POB 343  
 PHONE NO. 344-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Walter Michos

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

N<sup>o</sup> 8

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Alton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Mass Excavation  
 BUSINESS ADDRESS PO Box 343 Floralista NM 87415  
 PHONE NO. 234-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Norris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL SITE ACROSS HW 44 FROM HILTON THRIFTWAY

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Michael T. Eason

MICHAEL T. EASON

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech <sup>m2c</sup> ~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4, Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS PO Box 343 Fiera Vista NM 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8/22/90

Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>m2c</sup> **ENVIROTECH SOIL DISPOSAL**  
**SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY**

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-29-90

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE:

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Po Box 343 Flora, N.M.  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>m2c</sup> ENVIROTECH SOIL DISPOSAL  
**SITE ACROSS HW 44 FROM HILTON THRIFTWAY**

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:Michael T. Eason  
**MICHAEL T. EASON**



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~W. H. H. H.~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS PO Box 343 Elavilla NM 87415  
 PHONE NO. 334-6867

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Russell Moss

Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL  
**SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY**  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

Michael T. Eason

MICHAEL T. EASON

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X CRAIG SCOLA

DATE: 6/29/90 TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS PO Box 743 Placita NM 87415  
 PHONE NO. 334-6867

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X Russell Moss

DATE: 6/29/90 TYPE OR PRINT ABOVE NAME: Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILTON THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X Michael J. Eason

DATE: 8-29-90 TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>MJC</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 <u>Sludge/Soil Near Fuel Tank</u>
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X CRAIG SCOLA

DATE: 8/29/90 TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Morris Excavation  
 BUSINESS ADDRESS PO Box 313 Flora Vista NM  
 PHONE NO. 4-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X Russell Morris

DATE: 8/29/90 TYPE OR PRINT ABOVE NAME: Russell Morris

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway-Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>MJC</sup> ENVIROTECH SOIL DISPOSAL SITE ACROSS HWY 44 FROM HILL TOP THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X Michael T. Falcon

DATE: 8-29-90 TYPE OR PRINT ABOVE NAME: MICHAEL T. FALCON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m22</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	<u>Site 4 Soil, &gt;1/4 Inches Below Sludge In Eastern Sludge Pit</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Flora Vista P.O. Box 343 NM 87745  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

Michael L. Wilson

MICHAEL L. WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: Aug 29, 90

TYPE OR PRINT ABOVE NAME:

VERL FARNSWORTH

VERL FARNSWORTH

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Alton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	<u>Site 1 Sludge/Soil Near Diesel Fuel Tanks</u>
60	C.yd.	<u>Site 2 Sludge/Soil Near Fuel Tank</u>
60	C.yd.	<u>Site 3 Sludge/Soil From Crude Oil Tank (Drums too)</u>
200	C.yd.	<u>Site 4 Soil, &gt;1/4 inches Below Sludge In Eastern Sludge Pit</u>
		<u>Sites 5</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS 7 Lora Vista P.O. Box 343 N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

MICHAEL L. WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road / Bloomfield, NM~~ <sup>m2c</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILL TOP THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

VERL FARSWORTH

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>mzc</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Flora Vista P.O. Box 343 N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: MICHAEL L. WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS <sup>mzc</sup>~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL  
 SITE ADDRESS ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>M2C</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	<u>Site 2 Sludge/Soil Near Fuel Tank</u>
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS 7 Lora Vista P.O. Box 343 N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL L. WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>M2C</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HWY 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. GAZON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & MooreEMERGENCY PHONE (801) 521-9255RECEIVER'S NAME Envirotech/~~Thriftway~~ Disposal SiteBUSINESS ADDRESS Bloomfield, New MexicoOFFICE PHONE (505) 326-2822SITE ADDRESS Hammond Ditch RoadSITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Mass ExcavationBUSINESS ADDRESS Flora Vista P.O. Box 343 NM 87415PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 7-29-90

TYPE OR PRINT  
ABOVE NAME:

MICHAEL L. WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris YoungPHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HWY 4 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON



# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255  
 RECEIVER'S NAME Envirotech/<sup>M2E</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Separation  
 BUSINESS ADDRESS Flora Vista P.O. Box 343 N.M. 87415  
 PHONE NO. 334-6467

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-29-90 MICHAEL L. WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>M2E</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-29-90 MICHAEL T. EASON

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXHAUSTION  
 BUSINESS ADDRESS P.O. Box 343 Hona Vista N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Artis B. Wilson  
Curtis B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ ENVIROTECH SOIL  
DISPOSAL SITE ACROSS HW 44 FROM HILTON THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech, <sup>mt2</sup> ~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Expedition  
 BUSINESS ADDRESS P.O. Box 343 HONOLULU, HI 96815  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Curtis B. Wilson  
Curtis B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL  
**SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY**  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>mll</sup>~~Thriftyway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 343 FLORA VISTA N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Ante B. Wilson  
Capt. J. Bl. 1021

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftyway Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>mll</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILL TOP THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech <sup>m2E</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE:

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 343 HORA VISTA N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:

Curtis B. Wilson  
Curtis B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>m2E</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILTON THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>mzc</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 343 Mona UTA N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Curtis B. Wilson  
CURTIS B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVER'S NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway to the left of Hammond Ditch Road / Bloomfield, NM~~ <sup>mzc</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HWY 550 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
<u>40</u>	<u>C.yd.</u>	<u>Site 1 Sludge/Soil Near Diesel Fuel Tanks</u>
<u>60</u>	<u>C.yd.</u>	<u>Site 2 Sludge/Soil Near Fuel Tank</u>
<u>60</u>	<u>C.yd.</u>	<u>Site 3 Sludge/Soil From Crude Oil Tank (Drums too)</u>
<u>200</u>	<u>C.yd.</u>	<u>Site 4 Soil, &gt;1/4 Inches Below Sludge In Eastern Sludge Pit</u>
		<u>Site 5</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: \_\_\_\_\_

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS EXCAVATION  
 BUSINESS ADDRESS P.O. Box 213 Afton U.S.A N.m 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: \_\_\_\_\_

Curtis B. Wilson  
Curtis B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>m2c</sup> ENVIROTECH SOIL DISPOSAL  
SITE ADDRESS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: \_\_\_\_\_

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: 8-29-90 TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aranda Trucking  
 BUSINESS ADDRESS #16 CR 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90 TYPE OR PRINT ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL  
SITE ACROSS FROM HW 44 FROM HILETOP THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90 TYPE OR PRINT ABOVE NAME: MICHAEL T. EACON



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m22</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aranda Trucking  
 BUSINESS ADDRESS #16 Rd 5470 Farmington  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>m22</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME:

MICHAEL T. EASON

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255  
 RECEIVER'S NAME Envirotech/<sup>m2c</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
<u>40</u>	<u>C.yd.</u>	<u>Site 1 Sludge/Soil Near Diesel Fuel Tanks</u>
<u>60</u>	<u>C.yd.</u>	<u>Site 2 Sludge/Soil Near Fuel Tank</u>
<u>60</u>	<u>C.yd.</u>	<u>Site 3 Sludge/Soil From Crude Oil Tank (Drums too)</u>
<u>200</u>	<u>C.yd.</u>	<u>Site 4 Soil, &gt;1/4 Inches Below Sludge In Eastern Sludge Pit</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Archer Trucking  
 BUSINESS ADDRESS #16 CR 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

Raymond J. Archer

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery~~ <sup>m2c</sup> Hammond Ditch Road / Bloomfield, NM  
SITE ACROSS HWY 44 FROM HILLTOP THRIFTWAY ENVIROTECH SOIL DISPOSAL  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

Michael J. Eason  
MICHAEL T. EASON

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
<u>40</u>	<u>C.yd.</u>	<u>Site 1 Sludge/Soil Near Diesel Fuel Tanks</u>
<u>60</u>	<u>C.yd.</u>	<u>Site 2 Sludge/Soil Near Fuel Tank</u>
<u>60</u>	<u>C.yd.</u>	<u>Site 3 Sludge/Soil From Crude Oil Tank (Drums too)</u>
<u>200</u>	<u>C.yd.</u>	<u>Site 4 Soil, &gt;1/4 Inches Below Sludge In Eastern Sludge Pit</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## ③ PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aranda Trucking  
 BUSINESS ADDRESS #16 CR 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X Raymond J Aranda

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>m2c</sup> ENVIROTECH SOIL DISPOSAL SITE ACROSS FROM HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X Michael T. Eason

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup>~~Thriftyway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
<u>200</u>	C.yd.	<u>Site 4 Soil, &gt; 1/4 Inches Below Sludge In Eastern Sludge Pit</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aramco Trucking  
 BUSINESS ADDRESS #16 CR 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-28-90

TYPE OR PRINT ABOVE NAME:

Raymond J. Menden

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftyway Refinery/Hammond Ditch Road / Bloomfield, NM~~ ENVROTECH SOIL DISPOSAL SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME:

Michael T. Eason

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Mayerik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
<u>200</u>	<u>C.yd.</u>	<u>Site 4 Soil, &gt;1/4 Inches Below Sludge In Eastern Sludge Pit</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: 8-28-90 TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aranch Trucking  
 BUSINESS ADDRESS # 16 CR 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90 TYPE OR PRINT ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL SITE ACROSS HW 44 FROM HILTON THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-28-90 TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech <sup>mrc</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
<u>200</u>	<u>C.yd.</u>	<u>Site 4 Soil, &gt;1/4 Inches Below Sludge In Eastern Sludge Pit</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: 8-28-90

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Arundt Trucking  
 BUSINESS ADDRESS #16 CR 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Raymond J. Arundt

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>mrc</sup> ENVIROTECH SOIL DISPOSAL SITE ACROSS HW44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-28-90

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>mll</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Atencio Trucking  
 BUSINESS ADDRESS 1404 Gullery Rd FARM  
 PHONE NO. 327 3787

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: Vicente Atencio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway-Refinery/Hammond Ditch Road / Bloomfield, NM~~ <sup>mll</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW FROM HILL TOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: MICHAEL T. EALON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech <sup>m2c</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Atencio Trucking  
 BUSINESS ADDRESS 1404 Gullidge Rd Farm  
 PHONE NO. 327 3787

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME:

Vicente Atencio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway-Refinery/Hammond Ditch Road/Bloomfield, NM ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME:

MICHAEL T. EASON



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech <sup>m28</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Atencio Trucking  
 BUSINESS ADDRESS 1404 Cuthbert Rd  
 PHONE NO. 327 3787

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Vicente Atencio  
Vicente Atencio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>m28</sup> ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>mxc</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Alexis Trucking  
 BUSINESS ADDRESS 1404 Gellert Rd. Folsom  
 PHONE NO. 327-3287

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: Vicente Alexis

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH SOIL DISMANT  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-29-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech <sup>m2c</sup> ~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Atencio Trucking  
 BUSINESS ADDRESS 1404 Gullidge Rd Farm  
 PHONE NO. 327-3287

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: Vicente Atencio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway-Refinery/Hammond Ditch Road/Bloomfield, NM~~ ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILL TOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>MTE</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		Site 5

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Atencio Trucking  
 BUSINESS ADDRESS 1404 Gullette Ave Farm  
 PHONE NO. 327-3287

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: Vicente Atencio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>MTE</sup> ENVIROTECH SOIL DISPOSAL SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-29-90

TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m 28</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact x

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME ARANDA Trucking  
 BUSINESS ADDRESS #16 CR. 5470 Farmington  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT x

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

Dwayne Brown

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway Refinery/<sup>m 28</sup>Hammond Ditch Road /Bloomfield, NM ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 from Thriftway  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT x

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME:

Michael T. Eason

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Mayerik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>REC</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact ☒ \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME ARANDA Trucking  
 BUSINESS ADDRESS #16 CR 5470 Farmington  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway Refinery/Hammond Ditch Road / Bloomfield, NM  
ENVIROTECH SOIL DISPOSAL  
SITE ACROSS HW 44 FROM HILLTOP THRIFTWAY  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-30-90TYPE OR PRINT  
ABOVE NAME:MICHAEL T. LEASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE:

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME ARANDA Trucking  
 BUSINESS ADDRESS #16 CR 5470 EARNINGTON  
 PHONE NO. 632 3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:Dwayne Brown

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway Refinery/<sup>m2c</sup>~~Hammond Ditch Road~~ Bloomfield, NM Envirotech soil disposal  
Site across Hg 44 from Thriftway  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-30-90TYPE OR PRINT  
ABOVE NAME:Michael T. EasonMICHAEL T. EASON



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech <sup>428</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME ARANDA Trucking  
 BUSINESS ADDRESS #16 CR. 5470 CARWINGTON  
 PHONE NO. 632 3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:Dwayne Brown

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ Envirotech soil disposal site across Hwy 44 from Thriftway  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-30-90TYPE OR PRINT  
ABOVE NAME:Michael T. EasonMICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>n22</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
<u>40</u>	<u>C.yd.</u>	<u>Site 1 Sludge/Soil Near Diesel Fuel Tanks</u>
<u>60</u>	<u>C.yd.</u>	<u>Site 2 Sludge/Soil Near Fuel Tank</u>
<u>60</u>	<u>C.yd.</u>	<u>Site 3 Sludge/Soil From Crude Oil Tank (Drums too)</u>
<u>200</u>	<u>C.yd.</u>	<u>Site 4 Soil, &gt;1/4 Inches Below Sludge In Eastern Sludge Pit</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: 8-30-90TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Arcos de Trucking  
 BUSINESS ADDRESS #16 CR 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-30-90TYPE OR PRINT  
ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/<sup>n22</sup> Hammond Ditch Road /Bloomfield, NM  
Envirotech had disposed site across Hwy 44 from Heltop Thriftway  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-30-90TYPE OR PRINT  
ABOVE NAME:Michael T. EasonMICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m28</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
<u>40</u>	<u>C.yd.</u>	<u>Site 1 Sludge/Soil Near Diesel Fuel Tanks</u>
<u>60</u>	<u>C.yd.</u>	<u>Site 2 Sludge/Soil Near Fuel Tank</u>
<u>60</u>	<u>C.yd.</u>	<u>Site 3 Sludge/Soil From Crude Oil Tank (Drums too)</u>
<u>200</u>	<u>C.yd.</u>	<u>Site 4 Soil, &gt;1/4 Inches Below Sludge In Eastern Sludge Pit</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: 8-30-90 TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aranda Trucking  
 BUSINESS ADDRESS #16CR5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-30-90 TYPE OR PRINT ABOVE NAME: Raymond J. Aranda

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/<sup>m28</sup>Hammond Ditch Road /Bloomfield, NM Envirotech soil disposal site across Hg 44 from Hilltop Thriftway  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-30-90 TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>mcc</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Jonck Trucking  
 BUSINESS ADDRESS #16 CR 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>mcc</sup> Envirotech soil disposal site across Hwy 44 from Hilltop Thriftway  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME:

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Mayerik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m22</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact ☒ \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Ardena Trucking  
 BUSINESS ADDRESS #16 CP 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway-Refinery/<sup>m22</sup>Hammond Ditch Road /Bloomfield, NM Envirotech soil disposal site across Hwy 44 from Miller's Thriftway  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8/30/90

TYPE OR PRINT  
ABOVE NAME:

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m22</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		Site 5

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT ☒ \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aterio Trucking  
 BUSINESS ADDRESS 1404 Gullhede Rd Farm  
 PHONE NO. 327 3787

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT ☒ \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME: Vicente Aterio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway-Refinery/<sup>m22</sup>Hammond Ditch Road /Bloomfield, NM  
 RECEIVER'S COMMENTS Site across Hwy 44 from Hilltop Thriftway Envirotech solid disposal

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT ☒ \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Mayerik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>ms</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		Site 5

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Atencio Trucking  
 BUSINESS ADDRESS 1404 Gullidge Rd Farm.  
 PHONE NO. 327 3787

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME:

Vicente Atencio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM  
 RECEIVER'S COMMENTS Envirotech soil disposal site across Hwy 44 from Hilltop Thriftway

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME:

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>MRC</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		Site 5

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME A7 Acid Trucking  
 BUSINESS ADDRESS 1404 Gullidge Rd  
 PHONE NO. 327 3287

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-30-90

Vicente Atencio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM Envirotech soil disposal site across Hwy 49 from Hilltop Thriftway  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-30-90

MICHAEL T. EASON



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Atercio / Ruckling  
 BUSINESS ADDRESS 1404 Gylledge Rd FARM  
 PHONE NO. 327 3787

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-30-90

Vicente Atercio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway Refinery/<sup>m2c</sup> Hammond Ditch Road / Bloomfield, NM EnviroBak soil disposal site across Hwy 44 from Miller's Thriftway  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-30-90

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>N2C</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		Site 5

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Atencio Trucking  
 BUSINESS ADDRESS 1404 Gullidge Rd Farm  
 PHONE NO. 327 3787

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-30-90

Vicente Atencio

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway-Refinery/<sup>N2C</sup> Hammond Ditch Road /Bloomfield, NM  
Envirotech soil disposal site about 1/2 mi from Thriftway  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

8-30-90

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		Site 5 ? TDV (11/16/90)

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Mass Excavation  
 BUSINESS ADDRESS P.O. Box 343 Santa Vista N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>m2c</sup> Envirotech soil disposal site across Hwy 44 from Thriftway  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
Michael T. Eason

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		<u>Sites 5</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Mass Excavation  
 BUSINESS ADDRESS Flaco Vista P.O.B. 343  
 PHONE NO. 334 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME:

Walter Michael

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM  
site across Hwy 44 from Hilltop Thriftway  
 RECEIVER'S COMMENTS Envirotech soil disposal

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME:

Michael J. Eason

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & MooreEMERGENCY PHONE (801) 521-9255RECEIVER'S NAME Envirotech/<sup>426</sup>Thriftway Disposal SiteBUSINESS ADDRESS Bloomfield, New MexicoOFFICE PHONE (505) 326-2822SITE ADDRESS Hammond Ditch RoadSITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Mass ExcavationBUSINESS ADDRESS Flora Vista POB 343PHONE NO. 334 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME:

Walter Michael

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris YoungPHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway-Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>426</sup>Envirotech soil disposal site across Hwy 14 from Hilltop Thriftway

RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m 22</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact ☒ \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Flora Vista POB 343  
 PHONE NO. 324 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ Walter Michael

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>m 22</sup> Envirotech soil disposal site across Hwy 44 from Hilltop Thriftway  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ Michael T. Eason

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>ARC</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		<u>sites</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Flora Vista POB 343  
 PHONE NO. 334 6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/<sup>ARC</sup> Hammond Ditch Road /Bloomfield, NM  
Envirotech soil disposal site across Hwy 44 from Hilltop Thriftway  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME:

MICHAEL T. EASON

No 17

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Mayerik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>22</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, 2/4 Inches Below Sludge In Eastern Sludge Pit
		<u>Site 5</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS PO Box 340 Flora Vista, NM 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8/30/90

TYPE OR PRINT ABOVE NAME:

Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/<sup>22</sup> Hammond Ditch Road /Bloomfield, NM  
 RECEIVER'S COMMENTS site across hwy 44 from Heltop Thriftway  
Provided soil disposal

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME:

MICHAEL T. EASON



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>2C</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, $>1/4$ Inches Below Sludge In Eastern Sludge Pit
		<u>5+1.5</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Niss Excavation  
 BUSINESS ADDRESS P.O. Box 343 Flora Vista NM 87415  
 PHONE NO. 324-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Russell Moss  
Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS Thriftway Refinery/<sup>2C</sup> Hammond Ditch Road / Bloomfield, NM Envirotech soil disposal site across Hwy 44 from Hilltop Thriftway  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		<u>Site 5</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS PO Box 343 Alora Vista 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8/30/90

TYPE OR PRINT ABOVE NAME: Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery~~ <sup>m2c</sup> Hammond Ditch Road / Bloomfield, NM Envirotech soil disposal site across Hwy 44 from Hilltop Thriftway  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m 22</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	<u>Site 1 Sludge/Soil Near Diesel Fuel Tanks</u>
60	C.yd.	<u>Site 2 Sludge/Soil Near Fuel Tank</u>
60	C.yd.	<u>Site 3 Sludge/Soil From Crude Oil Tank (Drums too)</u>
200	C.yd.	<u>Site 4 Soil, &gt;1/4 Inches Below Sludge In Eastern Sludge Pit</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE:

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS PO Box 343 Flora Vista NM 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:

8/30/90

Russell Moss  
Russell Moss

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ Envirotech soil disposal site across Hwy 44 from Hilltop Thriftway  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:

8-30-90

Michael T. Eason  
MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>~22</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	<u>Site 1 Sludge/Soil Near Diesel Fuel Tanks</u>
60	C.yd.	<u>Site 2 Sludge/Soil Near Fuel Tank</u>
60	C.yd.	<u>Site 3 Sludge/Soil From Crude Oil Tank (Drums too)</u>
200	C.yd.	<u>Site 4 Soil, &gt;1/4 Inches Below Sludge In Eastern Sludge Pit</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Flora Vista P.O. Box <sup>343</sup> N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME: MICHAEL L. WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway-Refinery~~ <sup>~22</sup>Hammond Ditch Road / Bloomfield, NM Envirotech soil disposal site across Hwy 64 from ~~the~~ Kirtland Refinery  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & MooreEMERGENCY PHONE (801) 521-9255RECEIVER'S NAME Envirotech/<sup>mzc</sup> Thriftway Disposal SiteBUSINESS ADDRESS Bloomfield, New MexicoOFFICE PHONE (505) 326-2822SITE ADDRESS Hammond Ditch RoadSITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		<u>SITE 5</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact ☒ \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss ExcavationBUSINESS ADDRESS Flora Vista P.O. Box 343 N.M. 87415PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL L WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris YoungPHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM~~ <sup>mzc</sup> Envirotech soil disposal site across Hwy 44 from Hilltop Thriftway

RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-30-90

TYPE OR PRINT  
ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>mzc</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		<u>(SITE 5)</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Flora Vista P.O. Box 343 N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME:

MICHAEL L. WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/<sup>mzc</sup>Hammond Ditch Road/Bloomfield, NM Envirotech soil disposal  
 RECEIVER'S COMMENTS Site across Hg 44 from Hilltop Thriftway

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME:

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Mayerik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>22</sup>Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE:

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Moss Excavation  
 BUSINESS ADDRESS Flora Vista P.O. Box 343 NM. 87415  
 PHONE NO. 334-6962

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:8-30-90MICHAEL T. WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/<sup>22</sup>Hammond Ditch Road / Bloomfield, NM Envirotech and disposal site across Hwy 44 from Hilltop Thriftway  
 RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:8-30-90MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>n 20</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MOSS ACADEMY  
 BUSINESS ADDRESS P.O. Box 343 ALCAVISA NM 87415  
 PHONE NO. 334-6567

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-20-90

TYPE OR PRINT ABOVE NAME:

Curtis B Wilson  
CURTIS B WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/<sup>n 20</sup> Hammond Ditch Road /Bloomfield, NM Envirotech soil disposal site across Hwy 44 from Helltop Thriftway

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE: 8-30-90

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON



# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/Thriftway Disposal Site  
BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		Site 5

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.  
SIGNATURE OF AUTHORIZED CONTACT X CRAIG SCOLA  
DATE: \_\_\_\_\_ TYPE OR PRINT ABOVE NAME: \_\_\_\_\_

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME MASS EXCAVATION  
BUSINESS ADDRESS P.O. Box 343 FLORA VISTA N.M. 87405  
PHONE NO. 334-6967  
I certify that the materials in the quantity described above are received by me for shipment to the above destination.  
SIGNATURE OF AUTHORIZED AGENT X Curtis B. Wilson  
DATE: 8-30-90 TYPE OR PRINT ABOVE NAME: CURTIS B WILSON

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
PHONE NO. (505) 326-2822  
SITE ADDRESS Thriftway-Refinery/Hammond Ditch Road /Bloomfield, NM  
RECEIVER'S COMMENTS site across Hg 44 from Hilltop Thriftway

I certify that the materials in the quantity described in Part I are received by me.  
SIGNATURE OF AUTHORIZED AGENT X Michael T. Eason  
DATE: 8-30-90 TYPE OR PRINT ABOVE NAME: MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT x

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Mass ex CAVATION  
 BUSINESS ADDRESS P.O. Box 343 Glona Vista N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT x

DATE: 8-30-96

TYPE OR PRINT ABOVE NAME:

Curtis B. Wilson  
Curtis B. Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822  
 SITE ADDRESS ~~Thriftway Refinery/Hammond Ditch Road/Bloomfield, NM~~ <sup>m2c</sup> Envirotech soil disposal  
 RECEIVER'S COMMENTS rite across Hwy 44 from Thriftway/Hilltop Thriftway

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT x

DATE: 8-30-96

TYPE OR PRINT ABOVE NAME:

Michael T. Eason  
MICHAEL T. EASON

No 3

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Mayerik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>22</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		<u>Site 5</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X

DATE:

TYPE OR PRINT  
ABOVE NAME:CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Mass Excavation  
 BUSINESS ADDRESS P.O. Box 343 Alora Vista N.M. 87415  
 PHONE NO. 334-6967

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:8-30-90Capt. S B Wilson

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/<sup>22</sup> Hammond Ditch Road / Bloomfield NM Envirotech soil disposal

RECEIVER'S COMMENTS site across Hg 44 from Hilltop Thriftway

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X

DATE:

TYPE OR PRINT  
ABOVE NAME:8-30-90Michael T. Eason



## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m2c</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		<i>Drum Material</i>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact ☒ \_\_\_\_\_

DATE: 8-31-90

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aranda Trucking  
 BUSINESS ADDRESS #16 CR 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-31-90

TYPE OR PRINT  
ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery~~ Hammond Ditch Road / Bloomfield, NM *Envirotech soil disposal*  
Site across Hwy 44 from Hilltop Thriftway  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-31-90

TYPE OR PRINT  
ABOVE NAME:

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>m 2C</sup> Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		<u>Drum material</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X

DATE:

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME ALPENA TRUCKING  
 BUSINESS ADDRESS # 16 CR 5470  
 PHONE NO. 632 3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Dwayne Brown

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway Refinery/<sup>m 2C</sup> Hammond Ditch Road /Bloomfield, NM - Envirotech soil disposal site across Hwy from Hilltop Thriftway

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X

DATE:

TYPE OR PRINT ABOVE NAME:

Michael J. Bason

MICHAEL T. BASON

8-31-90

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME <sup>M2C</sup> Envirotech/Thriftway Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 <u>Sludge/Soil From Crude Oil Tank (Drums too)</u>
200	C.yd.	Site 4 <u>Soil, &gt;1/4 Inches Below Sludge In Eastern Sludge Pit</u>
		<u>Drum material</u>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF AUTHORIZED CONTACT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME ARCADA Trucking  
 BUSINESS ADDRESS #16 CR 5470 Farmington  
 PHONE NO. 652 3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT ABOVE NAME:

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS <sup>M2C</sup> Thriftway Refinery/Hammond Ditch Road /Bloomfield, NM Envirotech soil disposal  
Site across Hg from Hilltop Thriftway

RECEIVER'S COMMENTS

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF AUTHORIZED AGENT X \_\_\_\_\_

DATE: 8-31-90

TYPE OR PRINT ABOVE NAME:

MICHAEL T. EASON

## INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.  
 BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457  
 ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM  
 AUTHORIZED CONTACT Terry Vandell, Dames & Moore EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/<sup>M2E</sup>~~Thriftway~~ Disposal Site  
 BUSINESS ADDRESS Bloomfield, New Mexico OFFICE PHONE (505) 326-2822  
 SITE ADDRESS Hammond Ditch Road SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >1/4 Inches Below Sludge In Eastern Sludge Pit
		<i>Drum Material</i>

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact ☒ \_\_\_\_\_

DATE: 8-31-90

TYPE OR PRINT  
ABOVE NAME:

CRAIG SCOLA

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME Aranda Trucking  
 BUSINESS ADDRESS #16 CR 5470  
 PHONE NO. 632-3441

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-31-90

TYPE OR PRINT  
ABOVE NAME:

Raymon J. Church

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young  
 PHONE NO. (505) 326-2822

SITE ADDRESS ~~Thriftway Refinery~~ <sup>M2E</sup> Hammond Ditch Road / Bloomfield, NM *Envirotech soil disposal site across Hwy 44 from Hilltop Thriftway*  
 RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT ☒ \_\_\_\_\_

DATE: 8-31-90

TYPE OR PRINT  
ABOVE NAME:

Michael T. Eason

MICHAEL T. EASON





KIRTLAND, NEW MEXICO 87417

WORK ORDER \_\_\_\_\_ DATE 9/21/90

**AMOUNT**

FUND \_\_\_\_\_

DESCRIPTION	WATER PUMPED FROM FIRE HYDRANT
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
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46	46
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68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

**LABOR:**

**AMOUNT**

BY:

APPENDIX C  
DOCUMENTATION: LABORATORY DATA RESULTS  
PRE-EXCAVATION, SLUDGE AND CONTAMINATED SOILS

## APPENDIX C

### DOCUMENTATION: LABORATORY DATA RESULTS: PRE-EXCAVATION, SLUDGE AND CONTAMINATED SOILS

Laboratory data results for the soils and sludges that were removed from 5 sites at the tank farm (Plate 2) are summarized in Table C-1 herein. This data has been provided to the OCD in previous correspondence (as per the enclosed August 10, 1990 letter to CSI and the August 14, 1990 letter to Envirotech), and discussed in the Dames & Moore June 1988 report, "Phase II Subsurface Soil and Solid Waste Contaminant Evaluation, Maverik Refinery And Tank Farm, Kirtland, New Mexico."

As summarized in Table C-1, refinery-related volatile organic contaminants were verified at all of the excavated sites, and the presence of semivolatile constituents were verified at sites 1 and 5. Analysis for total metals (the 8 RCRA metals) for the 5 sites did not indicate elevated metals concentrations. The characteristic test results for sites 3 and 5 verified that these sludges and contaminated soils were not hazardous.

TABLE C-1  
LABORATORY RESULTS FOR DETECTED CONSTITUENTS  
FROM PRE-EXCAVATION SOILS AND SLUDGES  
TAKEN AT THE ON-SITE EXCAVATIONS  
(ORGANIC PARAMETERS)

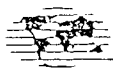
Sample Site Designation And Depth Sampled (in feet)	1-2 DCA (ug/kg)	Volatiles		Ethylbenzene (ug/kg)	Toluene (ug/kg)	Benzene <sup>(1)</sup> (ug/kg)	TCO Total			Semivolatiles				Chrysene (ug/kg)	Phenanthrene (ug/kg)	OVA (ppm)	Oil (%)	Solids (%)
		m-xylene (ug/kg)	o,p-xylene(s) (ug/kg)				Chromatographic Organics (ug/kg)	bts phtalate (ug/kg)	1-Methyl- naphthalene (ug/kg)	Naphthalene (ug/kg)								
Site 1																		
BH-20 (5-7)(sludge)	<100	130	150	76	120	75	54,000,000	-	-	-	-	-	-	-	>1,000	10.3	78.8	
BH-22 (0-0.5)(sludge)	<200	10,000	6,100	1,800	11,000	2,000	130,000,000	<10,000	<10,000	<10,000	<10,000	30,000	28,000	300-200	93.7	4.3		
Site 2																		
BH-10 (12)	<100	63,000	13,000	10,000	870	410	-	-	-	-	-	-	-	-	>1,000	0.7	83.5	
Site 3																		
BH-3 (5-7)	<1,000	17,000	90,000	26,000	13,000	5,200	-	-	-	-	-	-	-	-	>1,000	1.5	84.5	
Site 4																		
Sludge, SL-1 (0-0.5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Soil (0.5-5.0)	-	<100	<100	<50	<50	<50	-	-	-	-	-	-	-	-	-	-	-	
BH-26 (0-0.5)	-	-	-	-	-	-	130,000,000	-	-	-	-	-	-	-	-	51.3	39.7	
Site 5																		
BH-10 (12)	<100	63,000	13,000	10,000	870	410	-	-	-	-	-	-	-	-	>1,000	0.7	83.5	
BH-21 (0-1.25) (surface)	<100	3,400	1,700	<100	<100	110	60,000,000	1,200	<990	<990	<990	1,400	<990	>1,000	2.6	91.4		

**Footnotes:**

- (1) < Indicates below the detection (reporting) limit.  
(2) - Indicates Not Analyzed (June 1988). Borehole samples taken in April 1988.  
(3) Reference Dams & Moore (June 1988).  
(4) The parameters abbreviated are as follows:  
Sb Antimony Pb Lead  
As Arsenic Hg Mercury  
Ba Barium Ni Nickel  
Cd Cadmium Se Selenium  
Cr Chromium Ag Silver  
Co Cobalt Vn Vanadium  
(5) Based on EPA (1983), Hazardous Waste Land Treatment, SW-874 (revised, 1983).  
Chemical concentrations in soils are as follows:  
As 1-50 mg/kg; Ba 100-1,000 mg/kg; Cd 0.01-0.7 mg/kg;  
Cr 1-1,000 mg/kg; Co 1-40 mg/kg; Hg 0.01-0.3 mg/kg; Ag 0.01-5 mg/kg.  
For site locations, see Plate 2.

TABLE C-1 (Continued)  
(Metal Parameters)

[illegible]



# DAMES & MOORE

127 SOUTH 500 EAST, SUITE 300, SALT LAKE CITY, UTAH 84102-1959 (801) 521-9255

August 10, 1990

Conservation Services Inc.  
777 West 62nd Avenue  
Denver, Colorado 80216

Subject: Disposal of Crude Oil Sludges/Soils  
To CSI

Attention: Mr. Mike Jennings

Dear Mike:

As per my telephone conversation with Mr. Mark Molen of CSI on August 10, 1990, enclosed are the industrial waste characterization data forms and accompanying laboratory analytical results from ENSECO for the crude oil tank sludge and underlying contaminated soils at the Maverik Country Stores Inc. Tank Farm in Kirtland, New Mexico.

There will be approximately 140 cubic yards of sludge and soil that will need to be disposed of at CSI's facility in Bennett, Colorado. We would like to begin disposal operations the week of August 27, 1990. According to Mr. Molen, you will arrange for trucking ( an estimated 7 truckloads) over, preferably, a 1 to 2 day period, if possible. As we understand, disposal costs to CSI will be \$30.00/cyd. and trucking charges will be \$65.00/hr.

If you have any questions regarding the enclosed, please call me or Pete Olsen at (801) 521-9255.

Very Truly Yours,

Terry D. Vandell

Senior Hydrogeologist

CC: Pete Olsen  
Levi Todd

**CONSERVATION SERVICES, INC.****OFFICES**

2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
Fax: 280-9848

**FACILITY**

41800 E. 88th Ave.  
Bennett, CO 80102  
(303) 1-644-4335

CSI Waste Code No. \_\_\_\_\_

EPA I.D. NO. \_\_\_\_\_

**INDUSTRIAL WASTE CHARACTERIZATION DATA**

In order for us to determine whether we can lawfully and safely transport, treat, and dispose of your waste material, we must obtain certain information about the chemical and physical properties of the waste, and its chemical composition and regulatory status. Please be complete and answer each question by circling "YES" or "NO", checking the appropriate boxes, or filling in the blanks. Answers must be in ink or typewritten and the completed form must be signed by the generator. Please attach all available analyses.

**A. GENERATOR INFORMATION**

CUSTOMER NAME: Maverik Country Stores, Inc.  
MAILING ADDRESS: P.O. Box 457  
Afton, Wyoming 83110-0457  
FACILITY ADDRESS: U.S. Highway #550  
Kirtland, NM

IS BILLING ADDRESS THE SAME AS MAILING ADDRESS? YES ☒ NO

IF YOU HAVE USED CSI BEFORE GIVE CUSTOMER # \_\_\_\_\_

**CUSTOMER CONTACT**

NAME Mr. William Call  
TITLE President  
PHONE (307) 886-3551  
BROKER NAME Dames & Moore  
BROKER CONTACT Terry Vandell  
BROKER PHONE # (801) 521-9255  
REAPPROVAL OF WASTE # \_\_\_\_\_

**SOURCE OF WASTE**

Waste Name: Soil beneath sludge at Eastern Sludge  
Process Generating Waste Pit  
Crude Oil Tank  
Residue

Describe the business of generator

Oil refining SIC \_\_\_\_\_

Waste from: ☐ EPA ☐ City/County/State Agency ☒ Private Party  
Shipment Mode: ☒ Bulk ☐ Drums ☐ Woven Bags ☐ Pallets ☐ Other  
Estimated Volume 70 ☐ Gallons ☐ Lbs. ☒ Cubic Yards  
☐ Drums ☐ Other \_\_\_\_\_  
Per: ☐ Day ☐ Month ☐ Year or ☒ One Time

**WASTE PROPERTIES AND COMPOSITION**

<b>1 APPEARANCE</b> Color <u>Grey</u> Odor <u>HC</u>	<b>2 PHASES</b> <input checked="" type="checkbox"/> Single <input type="checkbox"/> Bilayered <input type="checkbox"/> Multi-layered	<b>3 pH</b> <input type="checkbox"/> < 2 <input type="checkbox"/> 2-6 <input checked="" type="checkbox"/> 6-8 <input type="checkbox"/> 8-10 <input type="checkbox"/> 10-12.5 <input type="checkbox"/> > 12.5 <input type="checkbox"/> Actual	<b>4 FLASH POINT</b> (closed cup) <input type="checkbox"/> < 100°F <input type="checkbox"/> 100°F-140°F <input type="checkbox"/> 140°F-160°F <input checked="" type="checkbox"/> 160°F-200°F <input type="checkbox"/> > 200°F <input type="checkbox"/> Actual <input type="checkbox"/> Oxidizer	<b>5 PHYSICAL STATE</b> <input type="checkbox"/> Oil <input type="checkbox"/> Liquid (water) <input type="checkbox"/> Sludge <input type="checkbox"/> Damp solid <input type="checkbox"/> Dry solid <input type="checkbox"/> Powder <input type="checkbox"/> Filter cake <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Concrete <input type="checkbox"/> Debris <input type="checkbox"/> Lab pack <input type="checkbox"/> Incinerat. ash <input type="checkbox"/> Other	<b>6 Chemical Composition</b> and Constituents ( )% (must total 100%) (List all known) <u>See Enseco Results</u> ( ) ( ) <u>SO MESP-SOI</u> ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
<b>SPECIFIC GRAVITY</b> <input type="checkbox"/> < 0.8 <input type="checkbox"/> 1.4-1.7 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> > 1.7 <input type="checkbox"/> 1.0-1.2 <input type="checkbox"/> Actual <input type="checkbox"/> 1.2-1.4	<b>8 TOTAL SUSPENDED SOLIDS (% WT.)</b> <input type="checkbox"/> < 0.5 <input type="checkbox"/> > 20 <input type="checkbox"/> 0.5-2.0 <input type="checkbox"/> Actual <input type="checkbox"/> 2-5 <input type="checkbox"/> % Free Liquid <input type="checkbox"/> 5-20	<b>9 VISCOSITY</b> (similar to) <input checked="" type="checkbox"/> TAR <input checked="" type="checkbox"/> HONEY <input type="checkbox"/> MOTOR OIL <input type="checkbox"/> WATER			

**REGULATORY QUESTIONS**

Is the waste a hazardous waste as defined by RCRA in 40 CFR Part 261? Yes ☒ No ☐  
Is the waste stream from a non-specific source listed in 40 CFR Part 261.31 (F Codes)? Yes ☒ No ☐  
Is the waste stream from a specific source listed in 40 CFR Part 261.32 (K Codes)? Yes ☒ No ☐  
Is the waste from a discarded commercial chemical product, off specification species, container residue and/or spill residue listed in 40 CFR 261.33 (P Codes and U Codes)? Yes ☒ No ☐  
Does the waste have any hazardous characteristics listed in 40 CFR 261.2, Subpart C (D Codes)? Yes ☒ No ☐  
Is the waste specifically excluded from hazardous waste regulations in 40 CFR Part 261.4? Yes ☒ No ☐  
If so, attach an explanation including the portion of 40 CFR Part 261.4 where the exclusion is mentioned.  
Is the waste mixed with a hazardous waste? Yes ☒ No ☐  
Is the waste being legally treated for a single hazardous characteristic? If so, attach an explanation. Yes ☐ No ☒

**WASTE CLASSIFICATION**

Is the waste: ☐ An unused product ☐ Used oil fuel  
☒ A spill clean up residue ☐ Demolition/construction debris  
☐ From a manufacturing process ☐ From a WWT system  
☐ From an UST removal project ☐ From a sand or grease trap  
Does the waste contain:  
☐ PCB's Levels (ppm) ☐ < 1.0 ☐ 1-10 ☐ 10-25 ☐ 25-50  
☐ Radioactives ☐ Carcinogens ☐ Biocides ☐ Infectious Waste  
☐ Pathogens ☐ Biological Agents ☐ Etiological Agents ☐ Asbestos  
☐ Controlled Substances ☐ Pharmaceuticals ☐ Gasoline ☐ Oil  
☐ Diesel Fuel ☒ Other Hydrocarbons

**WASTE DETERMINATION**

The information listed is based on: ☒ Knowledge of Process  
☐ CSI Analysis ☒ Independent Analysis ☐ MSDS's ☐ Other  
Analysis attached: ☒ EP Toxicity (metals) ☐ EP Toxicity Pest/Herb  
☒ VOC ☐ Semi-Volatile ☐ TCLP ☒ TOX ☐ PCB ☐ TPH ☐ BTEX  
☐ Total Metals ☐ MSDS's ☐ Method 8240 ☐ Method 8270  
☐ Other \_\_\_\_\_

**AUTHORIZED SIGNATORY**

I hereby certify that all information submitted, in this and all attached documents, is complete and accurate to the best of my knowledge and ability determine, that no deliberate or willful omissions of composition or properties exists, and that all known or suspected hazards have been disclosed. A sample representative of the waste has been collected using EPA approved methods and has been or is being sent to CSI's laboratory.

PRINT NAME: William CallTITLE: President, Maverik Country Stores, Inc.SIGNATURE: William CallDATE: 8/10/90





# CONSERVATION SERVICES, INC.

OFFICES FACILITY  
2090 E. 104th Ave. 41800 E. 88th Ave.  
Denver, CO 80233 Bennett, CO 80102  
(303) 280-9336 (303) 1-644-4335  
Fax: 280-9848

CSI Waste Code No. \_\_\_\_\_

EPA I.D. NO. \_\_\_\_\_

## INDUSTRIAL WASTE CHARACTERIZATION DATA

In order for us to determine whether we can lawfully and safely transport, treat, and dispose of your waste material, we must obtain certain information about the chemical and physical properties of the waste, and its chemical composition and regulatory status. Please be complete and answer each question by circling "YES" or "NO", checking the appropriate boxes, or filling in the blanks. Answers must be in ink or typewritten and the completed form must be signed by the generator. Please attach all available analyses.

### A. GENERATOR INFORMATION

CUSTOMER NAME: Maverik Country Stores, Inc.  
MAILING ADDRESS: P.O. Box 457  
Afton, WY 83110-0457  
FACILITY ADDRESS: U.S. Highway #550  
Kirtland, NM,

IS BILLING ADDRESS THE SAME AS MAILING ADDRESS? YES X NO  
IF YOU HAVE USED CSI BEFORE GIVE CUSTOMER # \_\_\_\_\_

### CUSTOMER CONTACT

NAME Mr. William Call  
TITLE President  
PHONE (307) 886-3551  
BROKER NAME Dames & Moore  
BROKER CONTACT Terry Vandell  
BROKER PHONE # (801) 521-9255  
REAPPROVAL OF WASTE # \_\_\_\_\_

### B. SOURCE OF WASTE

Waste Name: Sludge at Eastern Sludge Pit  
Process Generating Waste Crude Oil Tank Sludge

Describe the business of generator

Oil refining SIC \_\_\_\_\_

Waste from: ☐ EPA ☐ City/County/State Agency ☒ Private Party  
Shipment Mode: ☒ Bulk ☐ Drums ☐ Woven Bags ☐ Pallets ☐ Other  
Estimated Volume 70 ☐ Gallons ☐ Lbs. ☒ Cubic Yards  
☐ Drums ☐ Other \_\_\_\_\_  
Per: ☐ Day ☐ Month ☐ Year or ☒ One Time

### C. WASTE PROPERTIES AND COMPOSITION

<b>1 APPEARANCE</b> Color <u>Grey-black</u> Odor <u>HC</u>	<b>2 PHASES</b> <input checked="" type="checkbox"/> Single <input type="checkbox"/> Bilayered <input type="checkbox"/> Multi-layered	<b>3 pH</b> <input type="checkbox"/> < 2 <input type="checkbox"/> 2-6 <input checked="" type="checkbox"/> 6-8 <input type="checkbox"/> 8-10 <input type="checkbox"/> 10-12.5 <input type="checkbox"/> > 12.5 Actual _____	<b>4 FLASH POINT</b> (closed cup) <input type="checkbox"/> < 100°F <input type="checkbox"/> 100°F-140°F <input type="checkbox"/> 140°F-160°F <input checked="" type="checkbox"/> 160°F-200°F <input type="checkbox"/> > 200°F Actual _____ <input type="checkbox"/> Oxidizer	<b>5 PHYSICAL STATE</b> <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Liquid (water) <input checked="" type="checkbox"/> Sludge <input type="checkbox"/> Damp solid <input type="checkbox"/> Dry solid <input type="checkbox"/> Powder <input type="checkbox"/> Filter cake <input type="checkbox"/> Soil <input type="checkbox"/> Concrete <input type="checkbox"/> Debris <input type="checkbox"/> Lab pack <input type="checkbox"/> Incinerat. ash <input type="checkbox"/> Other	<b>6 Chemical Composition</b> and Constituents ( ) % (must total 100%) (List all known) <u>See Enseco Results</u> <u>MESP-SLI</u>	( ) PPM or % Range Lower Upper ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
<b>SPECIFIC GRAVITY</b> <input type="checkbox"/> < 0.8 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 1.2-1.4 Actual _____	<b>7 TOTAL SUSPENDED SOLIDS (% WT.)</b> <input type="checkbox"/> < 0.5 <input type="checkbox"/> 0.5-2.0 <input type="checkbox"/> 2-5 <input type="checkbox"/> 5-20 <input type="checkbox"/> > 20 Actual _____ % Free Liquid _____	<b>8 VISCOSITY</b> (similar to) <input checked="" type="checkbox"/> TAR <input type="checkbox"/> HONEY <input type="checkbox"/> MOTOR OIL <input type="checkbox"/> WATER				

### D. REGULATORY QUESTIONS

Is the waste a hazardous waste as defined by RCRA in 40 CFR Part 261? Yes No  
Is the waste stream from a non-specific source listed in 40 CFR Part 261.31 (F Codes)? Yes No  
Is the waste stream from a specific source listed in 40 CFR Part 261.32 (K Codes)? Yes No  
Is the waste from a discarded commercial chemical product, off specification species, container residue and/or spill residue listed in 40 CFR 261.33 (P Codes and U Codes)? Yes No  
Does the waste have any hazardous characteristics listed in 40 CFR 261.2, Subpart C (D Codes)? Yes No  
Is the waste specifically excluded from hazardous waste regulations in 40 CFR Part 261.4? Yes No  
If so, attach an explanation including the portion of 40 CFR Part 261.4 where the exclusion is mentioned.  
Is the waste mixed with a hazardous waste? Yes No  
Is the waste being legally treated for a single hazardous characteristic? If so, attach an explanation. Yes No

### E. WASTE CLASSIFICATION

Is the waste: ☐ An unused product ☐ Used oil fuel  
☒ A spill clean up residue ☐ Demolition/construction debris  
☐ From a manufacturing process ☐ From a WWT system  
☐ From an UST removal project ☐ From a sand or grease trap  
Does the waste contain:  
☐ PCB's Levels (ppm) ☐ < 1.0 ☐ 1-10 ☐ 10-25 ☐ 25-50  
☐ Radioactives ☐ Carcinogens ☐ Biocides ☐ Infectious Waste  
☐ Pathogens ☐ Biological Agents ☐ Etiological Agents ☐ Asbestos  
☐ Controlled Substances ☐ Pharmaceuticals ☐ Gasoline ☐ Oil  
☐ Diesel Fuel ☒ Other Hydrocarbons

### F. WASTE DETERMINATION

The information listed is based on: ☒ Knowledge of Process  
☐ CSI Analysis ☒ Independent Analysis ☐ MSDS's ☐ Other  
Analysis attached: ☒ EP Toxicity (metals) ☐ EP Toxicity Pest/Herb  
☐ VOC ☐ Semi-Volatile ☐ TCLP ☒ TOX ☐ PCB ☐ TPH ☐ BTEX  
☐ Total Metals ☐ MSDS's ☐ Method 8240 ☐ Method 8270  
☐ Other \_\_\_\_\_

### G. AUTHORIZED SIGNATORY

I hereby certify that all information submitted in this and all attached documents, is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omissions of composition or properties exists, and that all known or suspected hazards have been disclosed. A sample representative of the waste has been collected using EPA approved methods and has been or is being sent to CSI's laboratory.

PRINT NAME: William Call  
TITLE: President, Maverik Country Stores, Inc.

SIGNATURE: William Call  
DATE: 8/10/90

SAMPLE DESCRIPTION INFORMATION  
for  
Dames and Moore

Lab ID	Client ID	Matrix	Sampled		Received
			Date	Time	
008144-0001-SA	MESP-SL1	SOIL	18 JAN 90	15:00	20 JAN 90
008144-0002-SA	MESP-Sol	SOIL	18 JAN 90	15:00	20 JAN 90

## General Inorganics

Client Name: Dames and Moore  
Client ID: MESP-SLI  
Lab ID: 008144-0001-SA  
Matrix: SOIL  
Authorized: 20 JAN 90

Enseco ID: 1064809  
Sampled: 18 JAN 90  
Prepared: See Below

Received: 20 JAN 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Cyanide, Reactive	ND	mg/kg	0.1	EPA/OSW	NA	23 JAN 90
Ignitability	>160	deg. F	--	1010/1020	NA	23 JAN 90
Oil and Grease	129000	mg/kg	100	9070 Mod.	NA	24 JAN 90
pH	7.2	units	--	9045/ASTM	NA	23 JAN 90
Sulfide, Reactive	ND	mg/kg	0.5	EPA/OSW	NA	23 JAN 90
Total Petroleum Hydrocarbons	13300	mg/kg	50	9070	NA	23 JAN 90

Note o : This test is unreliable for any sample other than a non-aqueous liquid.

ND = Not detected  
NA = Not applicable

Reported By: Ron Maiorana

Approved By: Kimberly Conroy

Metals

EP Toxicity Leachate

Client Name: Dames and Moore  
 Client ID: MESP-SL1  
 Lab ID: 008144-0001-SA  
 Matrix: SOIL  
 Authorized: 20 JAN 90

Enseco ID: 1064809  
 Sampled: 18 JAN 90  
 Prepared: See Below

Received: 20 JAN 90  
 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.1	6010	24 JAN 90	25 JAN 90
Barium	0.10	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Cadmium	ND	mg/L	0.005	6010	24 JAN 90	25 JAN 90
Chromium	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Lead	0.18	mg/L	0.05	6010	24 JAN 90	25 JAN 90
Silver	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Mercury	ND	mg/L	0.002	7470	24 JAN 90	25 JAN 90
Selenium	ND	mg/L	0.05	7740	24 JAN 90	25 JAN 90

ND = Not detected  
 NA = Not applicable

Reported By: Fred Velasquez

Approved By: Kimberly Conroy

SAMPLE DESCRIPTION INFORMATION  
for  
Dames and Moore

Lab ID	Client ID	Matrix	Sampled Date      Time	Received Date
009523-0001-SA	ESP-Soil	SOIL	05 MAY 90 04:00	08 MAY 90

## General Inorganics

Client Name: Dames and Moore

Client ID: HESP-Sol

Lab ID: 008144-0002-SA

Matrix: SOIL

Authorized: 20 JAN 90

Enseco ID: 1064810

Sampled: 18 JAN 90

Prepared: See Below

Received: 20 JAN 90

Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Cyanide, Reactive	ND	mg/kg	0.1	EPA/OSW	NA	23 JAN 90
Ignitability	>160	deg. F	--	1010/1020	NA	23 JAN 90
Oil and Grease	20300	mg/kg	100	9070 Mod.	NA	24 JAN 90
pH	7.7	units	--	9045/ASTM	NA	23 JAN 90
Sulfide, Reactive	ND	mg/kg	0.5	EPA/OSW	NA	23 JAN 90
Total Petroleum Hydrocarbons	2560	mg/kg	50	9070	NA	23 JAN 90

Note: This test is unreliable for any sample other than a non-aqueous liquid.

ND = Not detected

NA = Not applicable

Reported By: Ron Maiorana

Approved By: Kimberly Conroy

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTX)



Method 8020

Client Name: Dames and Moore

Client ID: ESP-Soil

Lab ID: 009523-0001-SA

Matrix: SOIL

Authorized: 15 MAY 90

Enseco ID: 1075792

Sampled: 05 MAY 90

Prepared: NA

Received: 08 MAY 90

Analyzed: 16 MAY 90

Parameter	Result	Wet wt. Units	Reporting Limit
Benzene	ND	ug/kg	50
Toluene	ND	ug/kg	50
Ethylbenzene	ND	ug/kg	50
Xylenes (total)	ND	ug/kg	100

ND = Not detected  
NA = Not applicable

Reported By: Janet Heida

Approved By: Kim Zilis

## Metals

## EP Toxicity Leachate

Client Name: Dames and Moore

Client ID: MESP-Sol

Lab ID: 008144-0002-SA

Matrix: SOIL

Authorized: 20 JAN 90

Enseco ID: 1064810

Sampled: 18 JAN 90

Prepared: See Below

Received: 20 JAN 90

Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.1	6010	24 JAN 90	25 JAN 90
Barium	1.6	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Cadmium	ND	mg/L	0.005	6010	24 JAN 90	25 JAN 90
Chromium	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Lead	ND	mg/L	0.05	6010	24 JAN 90	25 JAN 90
Silver	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Mercury	ND	mg/L	0.002	7470	24 JAN 90	25 JAN 90
Selenium	ND	mg/L	0.05	7740	24 JAN 90	25 JAN 90

ND = Not detected

NA = Not applicable

Reported By: Fred Velasquez

Approved By: Kimberly Conroy





# COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1918 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • (708) 953-9300

Member of the SQS Group (Society of Quality Assurance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:  
480 ORCHARD ST., GOLDEN, CO 80401  
TELEPHONE: (303) 278-0821  
FAX: (303) 278-1779

Conservation Services Inc.  
777 West 62nd Avenue  
Denver, Colorado 80216

Date: July 11, 1990  
IAD #97-129880-01  
Received: 07/05/90

Attention: Mr. Mark A. Molen

Material: Oil (Composite Sites 1, 2 and 3)

Procedure: EP Toxicity per EPA Reference SW-846, Test Methods for Evaluating Solid Wastes.

Results: EP Toxicity results are reported as milligrams per liter, (mg/L), on an extract basis.

The weight of the sample prepared for the analysis is reported in grams (gm).

The volume of 0.5N acetic acid required for the pH adjustment of the extract is reported in milliliters (ml).

The volume of de-ionized water added and final volume of the extract are also reported in milliliters (ml).

The initial and final pH values of each extract are reported directly.

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

*Byron C. Caton*  
Byron C. Caton  
Laboratory Manager

dld/ca19880

Conservation Services Inc.  
IAD #97-129880-01  
July 11, 1990  
Page 2

EF Toxic Extract Elements

<u>Parameter</u>	<u>03847</u>
Arsenic, As	<0.2
Barium, Ba	0.03
Cadmium, Cd	<0.01
Chromium, Cr	<0.02
Lead, Pb	<0.05
Mercury, Hg	<0.0002
Selenium, Se	<0.2
Silver, Ag	<0.01
Sample Weight	100.0
Volume of 0.5N Acetic Acid required for pH adjustment	0
Volume of deionized water added to the extract	2,000
Final volume of the extract	2,000
Initial pH	4.3
Final pH	4.4

COMMERCIAL TESTING & ENGINEERING CO.

Original Copy Watermarked  
For Your Protection



F-485

CONSERVATION SERVICES, INC. LABORATORY WORKSHEET

CUSTOMER: ROCKY MTN. CONST. CONTACT: \_\_\_\_\_  
 WASTE CODE: CO-01- -03847 MANIFEST NO.: \_\_\_\_\_  
 RECEIVED: DATE 7-3-90 TIME \_\_\_\_\_ VOLUME \_\_\_\_\_

PHYSICAL STATE (top to bottom 1 2 3 4) 1 LIQUID 1.0 % SOLID \_\_\_\_\_ %  
OIL \_\_\_\_\_ % SLUDGE \_\_\_\_\_ % 2 OTHER oily sludge 99%

DESCRIPTION COLOR brown ODOR mild LOOK \_\_\_\_\_  
 light brown/

DENSITY 9.86 [ ] lb/cu.yd [x] lb/gal [ ] g/cc

MISCIBILITY Miscible in water? [x] yes [ ] no

SOLUBILITY Soluble in water? [ ] very [ ] slight [x] none

IGNITABILITY XLEL \_\_\_\_\_ at \_\_\_\_\_ of

CLOSED CUP FLASH POINT > 150 of

CORROSIVITY INITIAL pH 7.5 ( 1.0 % sample solution)

REACTIVITY Any reactions with [ ] AIR [ ] WATER [ ] KILN DUST

ACID ADJUST: 20 ml of a 1.0 % sample solution  
 took 1.0 ml of 10% HCl, final pH 2.0  
 REACTIONS none

BASE ADJUST: 20 ml of a 1.0 % sample solution  
 took 1.0 ml of 10% NaOH, final pH 12.5  
 REACTIONS none

SULFIDES Spot test [ ] positive [ ] negative QUANTITATIVE \_\_\_\_\_

CYANIDES QUANTITATIVE \_\_\_\_\_ AMMONIA QUANTITATIVE \_\_\_\_\_

CHLORIDES Spot test [ ] very [ ] slight [x] none

RADIOACTIVITY Greater [ ] or Less [x] than background

SUSPENDED SOLIDS After Centrifuge \_\_\_\_\_ % of total volume

MOISTURE \_\_\_\_\_ % VISCOSITY \_\_\_\_\_ cp (centipoises)

COMMENTS Sludge liquifies during flashpoint test heating.  
A composite of the 3 samples submitted was used for this analysis,  
and the outside lab work.

AMOUNT OF SAMPLE REMAINING 1 qt.

ANALYST Al. Morales DATE 7-10-90

CUSTOMER: ROCKY MTN. CONST. DATE: 7-11-90  
WASTE CODE: CO-01- -03847

**SOLIDIFICATION REQUIREMENTS**

KILN DUST TYPE M.M. WEIGHT OF WASTE 45 MLS=53.2 grams

WASTE/WATER RATIO 45 % WASTE 55 % WATER  
RATIO FIGURES START: 200 MLS KD=264.2 G  
FINISH: 151.55 MLS KD=200.2 G  
TOTAL: 48.45 MLS KD=64.0 G

$$\frac{200 \text{ MLS KD}}{x} = \frac{264.2}{154.0 \text{ G KD}} \quad x = 151.55$$
  
200.2 g. dust left

KILN DUST TYPE \_\_\_\_\_ WEIGHT OF WASTE \_\_\_\_\_ MLS= \_\_\_\_\_

WASTE/WATER RATIO \_\_\_\_\_ % WASTE \_\_\_\_\_ % WATER  
RATIO FIGURES START: \_\_\_\_\_ MLS KD= \_\_\_\_\_ G  
FINISH: \_\_\_\_\_ MLS KD= \_\_\_\_\_ G  
TOTAL: \_\_\_\_\_ MLS KD= \_\_\_\_\_ G

$$\frac{200 \text{ MLS KD}}{x} = \frac{154.0 \text{ G KD}}{x} \quad x =$$

RATIO 0.5 VOLUME INCREASE 1.25

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**NEUTRALIZATION REQUIREMENTS**

STARTING SAMPLE VOLUME \_\_\_\_\_

TITRANT USED: \_\_\_\_\_ START \_\_\_\_\_ FINISH \_\_\_\_\_ MLS USED \_\_\_\_\_ FINAL pH \_\_\_\_\_

INDICATOR TYPE \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To get a pH of \_\_\_\_\_ approximately \_\_\_\_\_ gallons of \_\_\_\_\_  
is needed for each \_\_\_\_\_ of waste.

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ANALYST Al. Mordler DATE 7/11/90





DAMES & MOORE

A PROFESSIONAL LIMITED PARTNERSHIP

127 SOUTH 500 EAST, SUITE 300, SALT LAKE CITY, UTAH 84102-1959 (801) 521-9255

August 14, 1990

Envirotech  
3111 Knudsen  
Farmington, NM 87401

Attention: Mr. Morris Young,  
President

Re: Disposal of Tank Farm Contami-  
nated Wastes and Soils to Thriftway  
Disposal Site

Dear Mr. Young:

As per our telephone conversation of August 8 and 10, 1990, this letter serves as a written formal request to dispose of certain refinery-related contaminated soils and sludges from the Maverik Country Stores Inc. abandoned tank farm (Caribou) near Kirtland, New Mexico to your disposal facility located at the Thriftway Refinery in Bloomfield, New Mexico.

As per our discussions with Mr. Bill Olson of the Oil Conservation Division, the soils and sludges on-site at the aforementioned tank farm (with the exception of the sludge and underlying 4 to 6 inches of soil at the Eastern Sludge Pit) can be disposed of at the Thriftway Disposal Site. Figure 1 shows the locations of the sites, designated sites 1 through 4, where soils and sludges are to be removed and disposed of to Thriftway. Laboratory analytical data for the material are also attached which demonstrate that these wastes from the fuel oil, diesel and crude oil tanks are not hazardous (i.e., do not fail EP toxicity tests). Specifically, we have attached the laboratory analytical test results for:

1. Sludges near the northern diesel fuel tanks (Site 1),



Envirotech  
August 14, 1990  
Page -2-

2. Soils near the fuel oil tank (Site 2),
3. The crude oil tank sludge (Site 3), which was removed from the crude oil tank by Rocky Mountain Construction Services, Inc. (some of which is currently stored in 55-gallon drums on-site, to be disposed of to Thriftway),
4. The sludge and underlying soils at the eastern sludge pit (Site 4), and
5. A composite sample taken from surficial sludges and soils at the three areas (Sites 1, 2 and 3) near the diesel fuel, fuel oil and crude oil tanks.

With respect to the underlying soils in the Eastern Sludge Pit, at depths greater than 4 to 6 inches, these deeper soils can be disposed of at Thriftway. The overlying sludge and soils will, however, be disposed of at CSI in Bennett, Colorado.

The volume (depth and extent) of soil/sludge removal will be determined in the field during excavation, both visually and via headspace analysis for volatile organics. However, we have estimated that approximately 350 cubic yards of waste material will be disposed of at the Thriftway Refinery. As per our conversation of August 10, 1990, the cost for such disposal will be about \$8.00/ton (or cubic yard). Attached is a manifest form that can be used for this project.

A copy of this letter has been forwarded to Mr. Bill Olson for his review and records. As we understand and, upon Mr. Olson's verbal and/or written approval of this request the waste material as described can be delivered and appropriately disposed of at the Thriftway Disposal Site. If possible, we would like to begin disposal the week of August 27, 1990, the same week that CSI is scheduled to begin removal of sludge and upper soil from the Eastern Sludge Pit.



Envirotech  
August 14, 1990  
Page -3-

We appreciate your time and cooperation in this matter. If you have any questions, please call (801) 521-9255.

Very truly yours,  
DAMES & MOORE

Peter F. Olsen  
Associate

Terry D. Vandell  
Senior Hydrogeologist

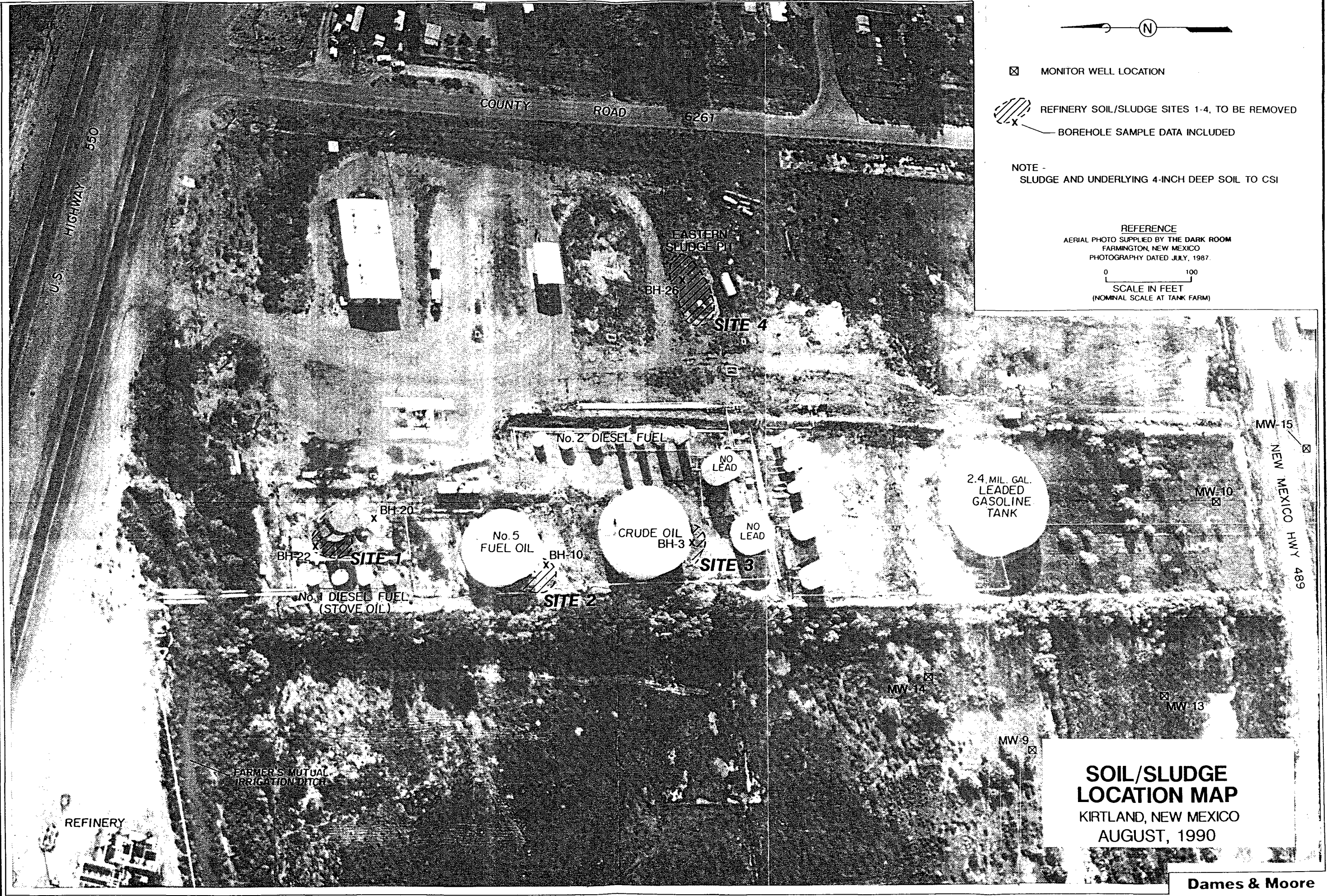
PFO/TDV:fl

cc: Bill Olson  
With Attachments

Bill Call  
With Attachments

Levi Todd  
With Attachments





- N
- MONITOR WELL LOCATION
- REFINERY SOIL/SLUDGE SITES 1-4, TO BE REMOVED
- BOREHOLE SAMPLE DATA INCLUDED

NOTE -  
SLUDGE AND UNDERLYING 4-INCH DEEP SOIL TO CSI

REFERENCE  
AERIAL PHOTO SUPPLIED BY THE DARK ROOM  
FARMINGTON, NEW MEXICO  
PHOTOGRAPHY DATED JULY, 1987.

0 100  
SCALE IN FEET  
(NOMINAL SCALE AT TANK FARM)

**SOIL/SLUDGE  
LOCATION MAP**  
KIRTLAND, NEW MEXICO  
AUGUST, 1990

**Dames & Moore**

FIGURE 1

# INDUSTRIAL WASTE DISPOSAL MANIFEST

## PART I: TO BE COMPLETED BY SHIPPER/GENERATOR

COMPANY NAME Maverik Country Stores, Inc.

BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457

ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NM

AUTHORIZED CONTACT Terry Vandell, Dames & Moore

EMERGENCY PHONE (801) 521-9255

RECEIVER'S NAME Envirotech/Thriftway Disposal Site

BUSINESS ADDRESS Bloomfield, New Mexico

OFFICE PHONE (505) 326-2822

SITE ADDRESS Hammond Ditch Road

SITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:

Terry D. Vandell

## PART II: TO BE COMPLETED BY CARRIER/DRIVER

CARRIER NAME \_\_\_\_\_

BUSINESS ADDRESS \_\_\_\_\_

PHONE NO. \_\_\_\_\_

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

## PART III: TO BE COMPLETED BY RECEIVER

RECEIVERS NAME Morris Young

PHONE NO. (505) 326-2822

SITE ADDRESS Thriftway-Refinery/Hammond Ditch Road /Bloomfield, NM

RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

SLUDGES NEAR DIESEL FUEL TANKS

(SITE 1)

## AROMATIC VOLATILE ORGANICS

## EPA METHOD 8020

Client Name: DAMES AND MOORE

Client ID: BH-20

Laboratory ID: 67196-001

Enseco ID: 67196-001

Matrix: Soil

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

Analyzed: 05/03/88

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>
Benzene	75	ug/kg	50
Chlorobenzene	N.D.	ug/kg	50
1,2-Dichlorobenzene	N.D.	ug/kg	50
1,3-Dichlorobenzene	N.D.	ug/kg	50
1,4-Dichlorobenzene	N.D.	ug/kg	50
Ethylbenzene	76	ug/kg	50
Toluene	120	ug/kg	50
m-Xylene	130	ug/kg	50
o & p-Xylene(s)	150	ug/kg	50

N.D. = Not detected

Reported by: Helmer Morse

Approved by: Susan Brillante

Sample: 67196-001

## ANALYTICAL RESULTS FOR TOTAL CHROMATOGRAPHABLE ORGANICS

Client Name: DAMES AND MOORE

Client ID: BH-20

Laboratory ID: 67196-001

Enseco ID: 67196-001

Matrix: Soil

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

Prepared: 04/27/88

Analyzed: 04/29/88

---

	<u>Value</u>	<u>Units</u>	<u>Detection Limit</u>
Total Chromatographable Organics	54,000,000	ug/kg	830,000
Initial Boiling Point*	250	°C	-
Final Boiling Point*	450	°C	-
Gasoline	ND	ug/kg	8,300,000
Stoddard Solvent	ND	ug/kg	8,300,000
Jet Fuel	ND	ug/kg	8,300,000
Kerosene	ND	ug/kg	8,300,000
Diesel	54,000,000	ug/kg	8,300,000
Motor Oil	ND	ug/kg	83,000,000

---

\* The initial and final boiling points define the range of compounds detected. The method is capable of detecting compounds between 100°C and 500°C.

\*\* Primary components of this product were detected in the sample. Due to the overall complexity of the chromatogram, reliable identification of this product cannot be achieved.

## INORGANIC PARAMETERS

Client Name: DAMES AND MOORE

Client ID: BH-20

Laboratory ID: 67196-001

Enseco ID: 67196-001

Matrix: Soil

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Oil	10.3	%	0.1		05/03/88
Water	10.9	%	0.1		05/03/88
Solids	78.8	%	0.1		05/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 67196-001



# AROMATIC VOLATILE ORGANICS

## EPA METHOD 8020

Client Name: DAMES AND MOORE

Client ID: BH-22

Laboratory ID: 67196-003

Enseco ID: 67196-003

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

Analyzed: 05/03/88

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>
Benzene	2000	ug/kg	100
Chlorobenzene	N.D.	ug/kg	100
1,2-Dichlorobenzene	N.D.	ug/kg	100
1,3-Dichlorobenzene	N.D.	ug/kg	100
1,4-Dichlorobenzene	N.D.	ug/kg	100
Ethylbenzene	1800	ug/kg	100
Toluene	11000	ug/kg	100
m-Xylene	10000	ug/kg	100
o & p-Xylene(s)	6100	ug/kg	100

N.D. = Not detected

Reported by: Helmer Morse

Approved by: Susan Brillante

Sample: 67196-003

## ANALYTICAL RESULTS FOR TOTAL CHROMATOGRAPHABLE ORGANICS

Client Name: DAMES AND MOORE

Client ID: BH-22

Laboratory ID: 67196-003

Enseco ID: 67196-003

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

Prepared: 04/27/88

Analyzed: 04/29/88

---

---

	<u>Value</u>	<u>Units</u>	<u>Detection Limit</u>
Total Chromatographable Organics	130,000,000	ug/kg	830,000
Initial Boiling Point*	100	°C	-
Final Boiling Point*	500	°C	-
Gasoline	ND	-	8,300,000
Stoddard Solvent	ND	-	8,300,000
Jet Fuel	ND	-	8,300,000
Kerosene	ND	-	8,300,000
Diesel	ND	-	8,300,000
Motor Oil	ND	-	83,000,000

\* The initial and final boiling points define the range of compounds detected. The method is capable of detecting compounds between 100°C and 500°C.

\*\* Primary components of this product were detected in the sample. Due to the overall complexity of the chromatogram, reliable identification of this product cannot be achieved.



**METALS PARAMETERS  
TOTAL METALS**

Client Name: DAMES AND MOORE

Client ID: BH-22

Laboratory ID: 67196-003

Enseco ID: 67196-003

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Antimony	N.D.	mg/kg	5	6010	04/29/88
Arsenic	N.D.	mg/kg	0.3	7060	05/06/88
Barium	9.4	mg/kg	0.5	6010	04/29/88
Beryllium	N.D.	mg/kg	0.1	6010	04/29/88
Cadmium	N.D.	mg/kg	0.5	6010	04/29/88
Chromium	N.D.	mg/kg	1	6010	04/29/88
Cobalt	N.D.	mg/kg	1	6010	04/29/88
Lead	N.D.	mg/kg	5	6010	04/29/88
Mercury	N.D.	ug/kg	50	7471	04/29/88
Nickel	N.D.	mg/kg	4	6010	04/29/88
Selenium	N.D.	mg/kg	0.2	7740	05/05/88
Vanadium	N.D.	mg/kg	1	6010	04/29/88

N.D. = Not detected

Approved by: Will Pratt

Sample: 67196-003

## INORGANIC PARAMETERS

Client Name: DAMES AND MOORE

Client ID: BH-22

Laboratory ID: 67196-003

Enseco ID: 67196-003

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

---

---

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Oil	93.7	%	0.1		05/03/88
Water	2.0	%	0.1		05/03/88
Solids	4.3	%	0.1		05/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 67196-003

SOILS NEAR FUEL OIL TANK

(SITE 2)

## AROMATIC VOLATILE ORGANICS

## EPA METHOD 8020

Client Name: DAMES AND MOORE

Client ID: BH-10 12'

Laboratory ID: 67161-004

Enseco ID: 67161-004

Matrix: Solid

Sampled: 04/17/88

Received: 04/19/88

Authorized: 04/19/88

Analyzed: 04/28/88

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>
Benzene	410	ug/kg	200
Chlorobenzene	N.D.	ug/kg	200
1,2-Dichlorobenzene	N.D.	ug/kg	200
1,3-Dichlorobenzene	N.D.	ug/kg	200
1,4-Dichlorobenzene	N.D.	ug/kg	200
Ethylbenzene	10000	ug/kg	200
Toluene	870	ug/kg	200
m-Xylene	63000	ug/kg	200
o & p-Xylene(s)	13000	ug/kg	200

N.D. = Not detected

Reported by: Helmer Morse

Approved by: Susan Brillante

Sample: 67161-004

# INORGANIC PARAMETERS

Client Name: DAMES AND MOORE

Client ID: BH-10 15'

Laboratory ID: 67161-005

Enseco ID: 67161-005

Matrix: Solid

Sampled: 04/17/88

Received: 04/19/88

Authorized: 04/19/88

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Oil	0.7	%	0.1		05/03/88
Water	15.8	%	0.1		05/03/88
Solids	83.5	%	0.1		05/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 67161-005

CRUDE OIL TANK ANALYSES

(MATERIAL IN DRUMS)

(SITE 3)



# COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • (708) 953-9300

Member of the SGS Group (Société Générale de Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:  
490 ORCHARD ST., GOLDEN, CO 80401  
TELEPHONE: (303) 278-9521  
FAX: (303) 278-1779

Conservation Services Inc.  
777 West 62nd Avenue  
Denver, Colorado 80216

Date: February 23, 1990  
IAD #97-120870-01  
Received: 02/22/90

Attention: Mr. Mark A. Molen

Material: Oil Sludge (From Crude Oil Tank Bottom)

Procedure: EP Toxicity per EPA Reference SW-846, Test Methods for Evaluating Solid Wastes.

Results: EP Toxicity results are reported as milligrams per liter, (mg/L), on an extract basis.

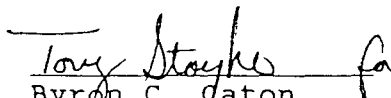
The weight of the sample prepared for the analysis is reported in grams (gm).

The volume of 0.5N acetic acid required for the pH adjustment of the extract is reported in milliliters (ml).

The volume of de-ionized water added and final volume of the extract are also reported in milliliters (ml).

The initial and final pH values of each extract are reported directly.

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

  
Byron C. Caton  
Laboratory Manager

dld/csi0870

Conservation Services Inc.  
IAD #97-120870-01  
February 23, 1990  
Page 2

EP Toxic Extract Elements

<u>Parameter</u>	<u>03486</u>
Cadmium, Cd	<0.01
Chromium, Cr	0.07
Lead, Pb	0.20
Sample Weight	101.6
Volume of 0.5N Acetic Acid required for pH adjustment	66
Volume of deionized water added to the extract	1934
Initial pH	10.3
Final pH	5.1





CONSERVATION SERVICES, INC. LABORATORY WORKSHEET

CUSTOMER: Rocky Mtn. Const. CONTACT: \_\_\_\_\_  
 WASTE CODE: CO-01- - 03486 MANIFEST NO.: \_\_\_\_\_  
 RECEIVED: DATE 2/20/90 TIME \_\_\_\_\_ VOLUME \_\_\_\_\_

PHYSICAL STATE (top to bottom 1 2 3 4) tan bottom sludge LIQUID \_\_\_\_\_ % SOLID \_\_\_\_\_ %  
OIL \_\_\_\_\_ % SLUDGE 100 % OTHER \_\_\_\_\_

DESCRIPTION COLOR black ODOR mild LOOK oil sludge

DENSITY 9.46 [ ] lb/cu.yd X lb/gal [ ] g/cc 113.47 g-100ml

MISCIBILITY Miscible in water? [ ] yes X no

SOLUBILITY Soluble in water? [ ] very [ ] slight [ ] none

IGNITABILITY ZLEL \_\_\_\_\_ at \_\_\_\_\_ °F

CLOSED CUP FLASH POINT >150 °F

CORROSIVITY INITIAL pH 8.2 (1.0 % sample solution)

REACTIVITY Any reactions with [ ] AIR [ ] WATER [ ] KILN DUST

ACID ADJUST: 20 ml of a 1.0 % sample solution  
 took 1.0 ml of 10% HCl, final pH 1.5  
 REACTIONS none

BASE ADJUST: 20 ml of a 1.0 % sample solution  
 took 1.0 ml of 10% NaOH, final pH 12.6  
 REACTIONS none

SULFIDES Spot test [ ] positive [ ] negative QUANTITATIVE \_\_\_\_\_

CYANIDES QUANTITATIVE \_\_\_\_\_ AMMONIA QUANTITATIVE \_\_\_\_\_

CHLORIDES Spot test [ ] very [ ] slight X none

RADIOACTIVITY Greater [ ] or Less X than background

SUSPENDED SOLIDS After Centrifuge \_\_\_\_\_ % of total volume

MOISTURE \_\_\_\_\_ % VISCOSITY \_\_\_\_\_ cp (centipoises)

COMMENTS \_\_\_\_\_

AMOUNT OF SAMPLE REMAINING 1/2 Quart none - sample jar broke during move.

ANALYST Al. Marder

DATE 2/21/90

CUSTOMER: Rocky Mtn. Const. DATE: 2/21/90  
WASTE CODE: CO-01- 03480

### SOLIDIFICATION REQUIREMENTS

KILN DUST TYPE M.M. WEIGHT OF WASTE 50 MLS = 567 gram

WASTE/WATER RATIO 50 % WASTE 50 % WATER  
RATIO FIGURES START: 200 MLS KD = 264.2 G  
FINISH: 156.7 MLS KD = 207.0 G  
TOTAL: 43.3 MLS KD = 57.2 G

$$\frac{200 \text{ MLS KD}}{x} = \frac{264.2 \text{ G KD}}{207.0 \text{ g. dust left}}$$
$$x = 156.7$$

233.4  
26.4  
207.0

KILN DUST TYPE \_\_\_\_\_ WEIGHT OF WASTE \_\_\_\_\_ MLS = \_\_\_\_\_

WASTE/WATER RATIO \_\_\_\_\_ % WASTE \_\_\_\_\_ % WATER  
RATIO FIGURES START: \_\_\_\_\_ MLS KD = \_\_\_\_\_ G  
FINISH: \_\_\_\_\_ MLS KD = \_\_\_\_\_ G  
TOTAL: \_\_\_\_\_ MLS KD = \_\_\_\_\_ G

$$\frac{200 \text{ MLS KD}}{x} = \frac{154.0 \text{ G KD}}{x}$$

RATIO 0.45 VOLUME INCREASE 1.25

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

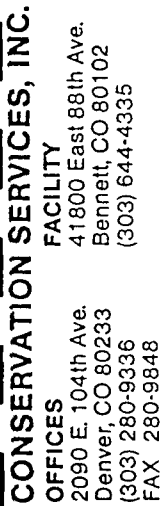
### NEUTRALIZATION REQUIREMENTS

STARTING SAMPLE VOLUME \_\_\_\_\_  
TITRANT USED: \_\_\_\_\_ START FINISH MLS USED FINAL pH  
INDICATOR TYPE \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To get a pH of \_\_\_\_\_ approximately \_\_\_\_\_ gallons of \_\_\_\_\_  
is needed for each \_\_\_\_\_ of waste.

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ANALYST Al Mander DATE 2/21/90



# CHAIN OF CUSTODY RECORD ANALYTICAL SERVICES REQUEST

Collected by: (Sampler) (Signature)	Print Name Stan Ruckert
Employer: of Sampler Procity of the Construction	Address Spencer as below
Generator Name: Ruckert of the Construction	Sampling Address 959 U.S. Hwy 64 Farmington N.H. (505) 632-3542
Sampler Product No.	Condition/Temp of Sample
CSI Lab Control No. 03486	Priority
CSI Customer No.	48 hrs

[illegible]

COMMENTS	DATE
Split original sample and sent to CTE for box	2/21/90

FIELD INFORMATION \_\_\_\_\_  
SPECIAL HANDLING AND/OR STORAGE \_\_\_\_\_  
*John DeKaney*

RELINQUISHED BY: <u>MT</u>	REPRESENTING: <u>CST</u>	TO WHOM: <u>Greg D</u>	DATE/TIME: <u>2-20-90 15:</u>
RELINQUISHED BY: <u>Thy. V. B...</u>	REPRESENTING: <u>CST</u>	TO WHOM: <u>At. Marlen</u>	DATE/TIME: <u>2/20/90 - 4:00P</u>
RELINQUISHED BY: _____	REPRESENTING: _____	TO WHOM: _____	DATE/TIME: _____

AROMATIC VOLATILE ORGANICS

EPA METHOD 8020

Client Name: DAMES AND MOORE

Client ID: BH-3 5'-7'

Laboratory ID: 67161-011

Enseco ID: 67161-011

Matrix: Solid

Sampled: 04/17/88

Received: 04/19/88

Authorized: 04/19/88

Analyzed: 05/02/88

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>
Benzene	5200	ug/kg	500
Chlorobenzene	N.D.	ug/kg	500
1,2-Dichlorobenzene	N.D.	ug/kg	500
1,3-Dichlorobenzene	N.D.	ug/kg	500
1,4-Dichlorobenzene	N.D.	ug/kg	500
Ethylbenzene	26000	ug/kg	500
Toluene	13000	ug/kg	500
m-Xylene	17000	ug/kg	500
o & p-Xylene(s)	90000	ug/kg	500

N.D. = Not detected

Reported by: Helmer Morse

Approved by: Susan Brillante

Sample: 67161-011

## INORGANIC PARAMETERS

Client Name: DAMES AND MOORE

Client ID: BH-3 5'-7'

Laboratory ID: 67161-011

Enseco ID: 67161-011

Matrix: Solid

Sampled: 04/17/88

Received: 04/19/88

Authorized: 04/19/88

---

---

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Oil	1.5	%	0.1		05/03/88
Water	14.0	%	0.1		05/03/88
Solids	84.5	%	0.1		05/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 67161-011

**METALS PARAMETERS  
EPI TOXICITY METALS**

Client Name: DAMES AND MOORE

Client ID: BH-3 11'

Laboratory ID: 67161-012

Enseco ID: 67161-012

Matrix: Solid

Sampled: 04/17/88

Received: 04/19/88

Authorized: 04/19/88

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Arsenic	N.D.	mg/L	0.1	200.7	05/02/88
Barium	2.7	mg/L	0.005	200.7	05/02/88
Cadmium	N.D.	mg/L	0.005	200.7	05/02/88
Chromium	N.D.	mg/L	0.01	200.7	05/02/88
Lead	N.D.	mg/L	0.05	200.7	05/02/88
Mercury	N.D.	ug/L	1	245.1	04/29/88
Selenium	N.D.	mg/L	0.02	7740	05/05/88
Silver	N.D.	mg/L	0.005	200.7	05/02/88

N.D. = Not detected

Approved by: Will Pratt

Sample: 67161-012

EASTERN SLUDGE PIT  
SOIL/SLUDGE ANALYSES  
(SITE 4)

SAMPLE DESCRIPTION INFORMATION  
for  
Dames and Moore

Lab ID	Client ID	Matrix	Sampled Date	Time	Received Date
008144-0001-SA	MESP-SLI (Eastern Sludge Pit Sludge)	SOIL	18 JAN 90	15:00	20 JAN 90
008144-0002-SA	MESP-Sol (Eastern Sludge Pit Soils, 0.5 to 5.0 feet)	SOIL	18 JAN 90	15:00	20 JAN 90



General Inorganics

Client Name: Dames and Moore  
 Client ID: MESP-SLI  
 Lab ID: 008144-0001-SA  
 Matrix: SOIL  
 Authorized: 20 JAN 90

Enseco ID: 1064809  
 Sampled: 18 JAN 90  
 Prepared: See Below

Received: 20 JAN 90  
 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Cyanide, Reactive	ND	mg/kg	0.1	EPA/OSW	NA	23 JAN 90
Ignitability	>160	deg. F	--	1010/1020	NA	23 JAN 90
Oil and Grease	129000	mg/kg	100	9070 Mod.	NA	24 JAN 90
pH	7.2	units	--	9045/ASTM	NA	23 JAN 90
Sulfide, Reactive	ND	mg/kg	0.5	EPA/OSW	NA	23 JAN 90
Total Petroleum Hydrocarbons	13300	mg/kg	50	9070	NA	23 JAN 90

Note o : This test is unreliable for any sample other than a non-aqueous liquid.

ND = Not detected  
 NA = Not applicable

Reported By: Ron Maiorana

Approved By: Kimberly Conroy

Metals

EP Toxicity Leachate

Client Name: Dames and Moore

Client ID: MESP-SL1

Lab ID: 008144-0001-SA

Matrix: SOIL

Authorized: 20 JAN 90

Enseco ID: 1064809

Sampled: 18 JAN 90

Prepared: See Below

Received: 20 JAN 90

Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.1	6010	24 JAN 90	25 JAN 90
Barium	0.10	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Cadmium	ND	mg/L	0.005	6010	24 JAN 90	25 JAN 90
Chromium	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Lead	0.18	mg/L	0.05	6010	24 JAN 90	25 JAN 90
Silver	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Mercury	ND	mg/L	0.002	7470	24 JAN 90	25 JAN 90
Selenium	ND	mg/L	0.05	7740	24 JAN 90	25 JAN 90

ND = Not detected

NA = Not applicable

Reported By: Fred Velasquez

Approved By: Kimberly Conroy

SAMPLE DESCRIPTION INFORMATION  
for  
Dames and Moore

Lab ID	Client ID	Matrix	Sampled Date	Time	Received Date
009523-0001-SA	ESP-Soil	SOIL	05 MAY 90	04:00	08 MAY 90

## General Inorganics

Client Name: Dames and Moore  
Client ID: MESP-Sol  
Lab ID: 008144-0002-SA  
Matrix: SOIL  
Authorized: 20 JAN 90

Enseco ID: 1064810  
Sampled: 18 JAN 90  
Prepared: See Below

Received: 20 JAN 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Cyanide, Reactive	ND	mg/kg	0.1	EPA/OSW	NA	23 JAN 90
Ignitability	>160	deg. F	--	1010/1020	NA	23 JAN 90
Oil and Grease	20300	mg/kg	100	9070 Mod.	NA	24 JAN 90
pH	7.7	units	--	9045/ASTM	NA	23 JAN 90
Sulfide, Reactive	ND	mg/kg	0.5	EPA/OSW	NA	23 JAN 90
Total Petroleum Hydrocarbons	2560	mg/kg	50	9070	NA	23 JAN 90

Note : This test is unreliable for any sample other than a non-aqueous liquid.

ND = Not detected  
NA = Not applicable

Reported By: Ron Maiorana

Approved By: Kimberly Conroy

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTX)



Method 8020

Client Name: Dames and Moore

Client ID: ESP-Soil

Lab ID: 009523-0001-SA

Matrix: SOIL

Authorized: 15 MAY 90

Enseco ID: 1075792

Sampled: 05 MAY 90

Prepared: NA

Received: 08 MAY 90

Analyzed: 16 MAY 90

Parameter	Result	Wet wt. Units	Reporting Limit
Benzene	ND	ug/kg	50
Toluene	ND	ug/kg	50
Ethylbenzene	ND	ug/kg	50
Xylenes (total)	ND	ug/kg	100

ND = Not detected

NA = Not applicable

Reported By: Janet Heida

Approved By: Kim Zilis

Metals

EP Toxicity Leachate

Client Name: Dames and Moore

Client ID: MESP-Sol

Lab ID: 008144-0002-SA

Matrix: SOIL

Authorized: 20 JAN 90

Enseco ID: 1064810

Sampled: 18 JAN 90

Prepared: See Below

Received: 20 JAN 90

Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.1	6010	24 JAN 90	25 JAN 90
Barium	1.6	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Cadmium	ND	mg/L	0.005	6010	24 JAN 90	25 JAN 90
Chromium	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Lead	ND	mg/L	0.05	6010	24 JAN 90	25 JAN 90
Silver	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Mercury	ND	mg/L	0.002	7470	24 JAN 90	25 JAN 90
Selenium	ND	mg/L	0.05	7740	24 JAN 90	25 JAN 90

ND = Not detected

NA = Not applicable

Reported By: Fred Velasquez

Approved By: Kimberly Conroy

## ANALYTICAL RESULTS FOR TOTAL CHROMATOGRAPHABLE ORGANICS

Client Name: DAMES AND MOORE

Client ID: BH-26 (Eastern Sludge Pit Sludge)

Laboratory ID: 67196-006

Enseco ID: 67196-006

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

Prepared: 04/27/88

Analyzed: 04/29/88

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	<u>Value</u>	<u>Units</u>	<u>Detection Limit</u>
Total Chromatographable Organics	130,000,000	ug/kg	170,000
Initial Boiling Point*	170	°C	-
Final Boiling Point*	500	°C	-
Gasoline	ND	ug/kg	1,400,000
Stoddard Solvent	ND	ug/kg	1,400,000
Jet Fuel	ND	ug/kg	1,400,000
Kerosene	ND	ug/kg	1,400,000
Diesel	**	ug/kg	1,400,000
Motor Oil	ND	ug/kg	17,000,000

\* The initial and final boiling points define the range of compounds detected. The method is capable of detecting compounds between 100°C and 500°C.

\*\* Primary components of this product were detected in the sample. Due to the overall complexity of the chromatogram, reliable identification of this product cannot be achieved.

METALS PARAMETERS  
TOTAL METALS

Client Name: DAMES AND MOORE

Client ID: BH-26

Laboratory ID: 67196-006

Enseco ID: 67196-006

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Arsenic	9.0	mg/kg	0.6	7060	05/06/88
Barium	63	mg/kg	0.5	6010	04/29/88
Cadmium	N.D.	mg/kg	0.5	6010	04/29/88
Chromium	12	mg/kg	1	6010	04/29/88
Lead	98	mg/kg	5	6010	04/29/88
Mercury	N.D.	ug/kg	50	7471	04/29/88
Selenium	N.D.	mg/kg	0.2	7740	05/05/88
Silver	N.D.	mg/kg	0.5	6010	04/29/88

N.D. = Not detected

Approved by: Will Pratt

Sample: 67196-006



## INORGANIC PARAMETERS

Client Name: DAMES AND MOORE

Client ID: BH-26

Laboratory ID: 67196-006

Enseco ID: 67196-006

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Oil	51.3	%	0.1		05/03/88
Water	9.0	%	0.1		05/03/88
Solids	39.7	%	0.1		05/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 67196-006

COMPOSITE SURFICIAL SLUDGE/SOIL

(SITES 1,2 AND 3)



# COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1918 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • (708) 953-9300

Member of the QCB Group (Société Générale de Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:  
490 ORCHARD ST., GOLDEN, CO 80401  
TELEPHONE: (303) 278-0621  
FAX: (303) 278-1779

Conservation Services Inc.  
777 West 62nd Avenue  
Denver, Colorado 80216

Date: July 11, 1990  
IAD #97-129880-01  
Received: 07/05/90

Attention: Mr. Mark A. Molen

Material: Oil (Surficial Sludge, Sites 1,2,3)

Procedure: EP Toxicity per EPA Reference SW-846, Test Methods for Evaluating Solid Wastes.

Results: EP Toxicity results are reported as milligrams per liter, (mg/L), on an extract basis.


The weight of the sample prepared for the analysis is reported in grams (gm).

The volume of 0.5N acetic acid required for the pH adjustment of the extract is reported in milliliters (ml).

The volume of de-ionized water added and final volume of the extract are also reported in milliliters (ml).

The initial and final pH values of each extract are reported directly.

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

  
Byron C. Caton  
Laboratory Manager

dld/ca19880

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS,  
TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES

EP Toxic Extract Elements

<u>Parameter</u>	<u>Q3847</u>
Arsenic, As	<0.2
Barium, Ba	0.03
Cadmium, Cd	<0.01
Chromium, Cr	<0.02
Lead, Pb	<0.05
Mercury, Hg	<0.0002
Selenium, Se	<0.2
Silver, Ag	<0.01
Sample Weight	100.0
Volume of 0.5N Acetic Acid required for pH adjustment	0
Volume of deionized water added to the extract	2,000
Final volume of the extract	2,000
Initial pH	4.3
Final pH	4.4

COMMERCIAL TESTING & ENGINEERING CO.



CONSERVATION SERVICES, INC. LABORATORY WORKSHEET

CUSTOMER: ROCKY MTN. CONST. CONTACT: \_\_\_\_\_  
 WASTE CODE: CO-01- -03847 MANIFEST NO.: \_\_\_\_\_  
 RECEIVED: DATE 7-3-90 TIME \_\_\_\_\_ VOLUME \_\_\_\_\_

PHYSICAL STATE (top to bottom 1 2 3 4) 1 LIQUID 1.0 % SOLID \_\_\_\_\_ %  
 OIL \_\_\_\_\_ % SLUDGE \_\_\_\_\_ % 2 OTHER oily sludge 99%  
 light brown/

DESCRIPTION COLOR brown ODOR mild LOOK \_\_\_\_\_

DENSITY 9.86 [ ] lb/cu.yd [x] lb/gal [ ] g/cc

MISCIBILITY Miscible in water? [x] yes [ ] no

SOLUBILITY Soluble in water? [ ] very [ ] slight [x] none

IGNITABILITY XLEL - at - of

CLOSED CUP FLASH POINT > 150 of

CORROSIVITY INITIAL pH 7.5 ( 1.0 % sample solution)

REACTIVITY Any reactions with [ ] AIR [ ] WATER [ ] KILN DUST

ACID ADJUST: 20 ml of a 1.0 % sample solution  
 took 1.0 ml of 10% HCl, final pH 2.0  
 REACTIONS none

BASE ADJUST: 20 ml of a 1.0 % sample solution  
 took 1.0 ml of 10% NaOH, final pH 12.5  
 REACTIONS none

SULFIDES Spot test [ ] positive [ ] negative QUANTITATIVE -

CYANIDES QUANTITATIVE - AMMONIA QUANTITATIVE -

CHLORIDES Spot test [ ] very [ ] slight [x] none

RADIOACTIVITY Greater [ ] or Less [x] than background

SUSPENDED SOLIDS After Centrifuge - % of total volume

MOISTURE - % VISCOSITY - cp (centipoises)

COMMENTS Sludge liquifies during flashpoint test heating.  
 A composite of the 3 samples submitted was used for this analysis,  
 and the outside lab work.

AMOUNT OF SAMPLE REMAINING 4 qt.

ANALYST Al. Morales DATE 7-10-90

CUSTOMER: ROCKY MTN. CONST. DATE: 7-11-90  
WASTE CODE: CO-01- -03647

SOLIDIFICATION REQUIREMENTS

KILN DUST TYPE M.M. WEIGHT OF WASTE 45 MLS = 53.2 grams

WASTE/WATER RATIO 45 % WASTE 55 % WATER  
RATIO FIGURES START: 200 MLS KD = 264.2 G  
FINISH: 151.55 MLS KD = 200.2 G  
TOTAL: 48.45 MLS KD = 64.0 G

$$\frac{200 \text{ MLS KD}}{x} = \frac{264.2}{154.0 \text{ G KD}} \quad x = 151.55$$
  
200.2 g. dust left

KILN DUST TYPE \_\_\_\_\_ WEIGHT OF WASTE \_\_\_\_\_ MLS = \_\_\_\_\_

WASTE/WATER RATIO \_\_\_\_\_ % WASTE \_\_\_\_\_ % WATER  
RATIO FIGURES START: \_\_\_\_\_ MLS KD = \_\_\_\_\_ G  
FINISH: \_\_\_\_\_ MLS KD = \_\_\_\_\_ G  
TOTAL: \_\_\_\_\_ MLS KD = \_\_\_\_\_ G

$$\frac{200 \text{ MLS KD}}{x} = \frac{154.0 \text{ G KD}}{x} \quad x =$$

RATIO 0.5 VOLUME INCREASE 1.25

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NEUTRALIZATION REQUIREMENTS

STARTING SAMPLE VOLUME \_\_\_\_\_  
TITRANT USED: \_\_\_\_\_ START \_\_\_\_\_ FINISH \_\_\_\_\_ MLS USED \_\_\_\_\_ FINAL pH \_\_\_\_\_  
INDICATOR TYPE \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To get a pH of \_\_\_\_\_ approximately \_\_\_\_\_ gallons of \_\_\_\_\_  
is needed for each \_\_\_\_\_ of waste.

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ANALYST Al. Morales DATE 7/11/90

APPENDIX D

DOCUMENTATION: LABORATORY DATA RESULTS:  
POST-EXCAVATION, COMPOSITED SOIL SAMPLES

## APPENDIX D

### DOCUMENTATION: LABORATORY DATA RESULTS: POST-EXCAVATION, COMPOSITED SOIL SAMPLES

As required by the OCD (Bill Olson), representative soil samples were taken at each of the 5 excavated sites following excavation of the sludges and contaminated soils at these sites. Compositated samples were also taken of the aerated soils within the slurry wall. Soil samples were placed in glass jars and filled to the top to minimize volatilization of the organic constituents. Samples were kept cool and sent immediately to Data Chem Laboratory for analyses.

The laboratory data reports are included herein, and the results are summarized in Table D-1. Data Chem Laboratory of Salt Lake City, Utah (an EPA contract laboratory) conducted the analyses as per the methodologies indicated on their reports.



TABLE D-1

LABORATORY RESULTS FOR DETECTED CONSTITUENTS FROM  
POST-EXCAVATION COMPOSITED SOILS TAKEN AT THE ON-SITE  
EXCAVATIONS AND FROM SHALLOW SOILS INSIDE THE SLURRY WALL AREA<sup>(1)</sup>

(ORGANIC PARAMETERS)

Sample Site Designation And Depth Sampled (in feet)	Volatiles			Benzene (mg/kg)	Total Petroleum Hydrocarbons (mg/kg)
	Total Xylene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)		
Site 1 (0 - .5)	< .10 <sup>(2)</sup>	< .05	< .05	< .05	2,100
Site 2 (0 - .5)	2.0	< .05	< .05	< .05	21,000
Site 3 (0 - .5)	34.0	1.0	< .05	< .05	21,000
Site 4 (0 - .5)	.40	< .05	< .05	< .05	2,400
Site 5 (0 - .5)	.40	< .05	.07	< .05	11,000
SW#1N (0 - .5)	< .10	< .05	< .05	< .05	50
SW#2C (0 - .5)	< .10	< .05	< .05	< .05	370
SW#3S (0 - .5)	< .10	< .05	< .05	< .05	<10

For locations of sites see Plate 2

TABLE D-1 (Continued)

(METAL PARAMETERS)<sup>(1)</sup>

Sample Site Designation And Depth Sampled (in feet)	Leached Metals Concentrations (mg/l) EP-Toxicity							
	As	Ba	Cd	Cr	Pb	Hg	Se	Ag
Site 1 (0 -.5)	<0.3	1.1	<.05	<.05	<0.3	<.0002	<0.3	<0.05
Site 2 (0 -.5)	<0.3	1.9	<.05	<.05	<0.3	<.0002	<0.3	<0.05
Site 3 (0 -.5)	<0.3	0.9	<.05	<.05	<0.3	<.0002	<0.3	<0.05
Site 4 (0 -.5)	<0.3	1.0	<.05	<.05	<0.3	<.0002	<0.3	<0.05
Site 5 (0 -.5)	<0.3	1.2	<.05	<.05	<0.3	<.0002	<0.3	<0.05

## Footnotes:

(1) Samples taken on August 31, 1990 after site excavation.

(2) &lt; Indicates below the detection (reporting) limit.

(3) The parameters abbreviated are as follows:

As	Arsenic	Pb	Lead
Ba	Barium	Hg	Mercury
Cd	Cadmium	Se	Selenium
Cr	Chromium	Ag	Silver

960 West LeVoy Drive / Salt Lake City, Utah 84123-2500 / (801) 266-7700



ENVIRONMENTAL SOIL REPORT

Form EPRS-C

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Date 9/18/90  
Agency Identification Number S90-0752-BC

Method Index

-- Method Reference --

- [1] EPA-600/4-79-020 "Methods for Chemical Analysis of Water and Wastes", March 1983 (Modified for use with soils.)
- [2] SW-846 "Test Methods for Evaluating Solid Waste", September 1986.

# CHAIN OF CUSTODY RECORD

Date Extracted: 9/6/90  
 Date Digested: 9/14/90  
 Date Analyzed: 9/14/90

Account: 3018	DCL Set ID: S900752	Sponsor: James Moore	SPLITS	BTEX	EP TOX
Field Comment:					

Date Sampled	Field ID Number	DCL Sample Number(s)	Sample Matrix	Number of Containers	Remarks
08-31-90	SIRE 1	EJ 4513	Soil	3	(1- BTEX, 1-TPH (418.1), 1- EP TOX metals)
	2	4514			
	3	4515			
	4	4516			
	5	4517			
	SW #1N	4518		1	1- BTEX
	↓ #2C	4519			
	↓ #3S	4520			

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
R.H. Hanks	09-04-90 0830	Sample Storage	Sample Storage	9/6/90 10:00	R.H. Hanks
R.H. Hanks	9/6/90 13:00	Long Term Storage			

Final Disposition:

Signature:

DataChem Laboratories/ 900 West LeVoy Drive / Salt Lake City, Utah 84123

REVISED 1/22/1990

## ANALYTICAL REQUEST FORM

1. ☐ REGULAR Status

☒ RUSH Status Requested - ADDITIONAL CHARGE

CONFIRMATION WITH DATACHEM LABORATORIES  
REQUIRED FOR SCHEDULING AND PRICING

*As discussed  
w. R. Potter*

2. Date 8/30/90 Purchase Order No. 14819-005-5304  
3. Company Name DAMES & MOORE  
Address 127 S. 500 E. Suite 300  
SLC, UT 84102-1959  
Person to Contact Terry Vandell  
Telephone (801) 521-9255  
Billing Address (if different from above)

### 4. Sample Collection

Sampling Site MAVERIK KIRTLAND NM  
Industrial Process Petroleum Refinery  
Date of Collection 8/31/90  
Time Collected \_\_\_\_\_  
Date of Shipment 8/31/90  
Chain of Custody No. \_\_\_\_\_

### 5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
4513	SITE 1	Soil	80Z Ambu	BTEX, TPH (418.1), EPTOX Metals
4514	SITE 2	Soil	SAME	(Composite of 10 samples)
4515	SITE 3	Soil	SAME	per SITE)
4516	SITE 4	Soil	SAME	
4517	SITE 5			
4518	SW#1N	Soil	40Z	BTEX (Composite of 10 samples)
4519	SW#2C	Soil	40Z	BTEX per soil sample)
4520	SW#3S	Soil	40Z	BTEX

\*Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk Sample; Blood; Urine; Tissue; Soil; Water; Other

### 6. QC REQUIREMENTS

MUST BE COMPLETED - See  
General Services Terms and  
Conditions: QC samples billed  
at regular sample rate

☐ METHOD QC SAMPLES

(Lab QC according to published methods)

☐ PROJECT PLAN QC SAMPLES

(Lab QC according to provided QA/QC Plan)

☒ NO QC SAMPLES REQUESTED

(May not conform to Agency requirements)

☐ OTHER (as specified below)

Comments

Need Results By Sept. 17th '90

Total Cost  $\approx$  \$ 2036

Possible Contamination and/or Chemical Hazards

7. Requested by T.D. VANDELL

960 West LeVoy Drive / Salt Lake City, UT 84123  
4388 Glendale-Milford Road / Cincinnati, OH 45242

800-356-9135 or 801-266-7700 / FAX: 801-268-9992  
800-458-1493 or 513-733-5336 / FAX: 513-733-5347

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## ENVIRONMENTAL SOIL REPORT

Form EPRS-A

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Part 1 of 1

Date 9/25/90Agency Identification Number S90-0807Account No. 03018

Dames & Moore  
127 South 500 East Suite 300  
Salt Lake City, UT 84102-1959  
Attention: Terry Vandell

Telephone (801) 521-9255

## Sampling Collection and Shipment

Sampling Site \_\_\_\_\_ Date of Collection August 31, 1990Date Samples Received at DataChem September 19, 1990

## Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	Field Number	Lab Number	SW#1N EJ 4873	SW#2C EJ 4874	SW#3S EJ 4875	Limit of Detection
Total Petroleum Hydrocarbons	09/20/1990	µg/g					50	370	ND*	10
418.1 [1]		3550 [2]								

† See comment on last page.

ND Parameter not detected.

NR Parameter not requested.

\* Analyses completed on or before this date.

\*\* Parameter not analyzed (See comment page).

() Parameter between LOD and LOQ.

[] Method Reference (See comments page.)

*Rosemary H. Hanks*  
Analyst: Rosemary H. Hanks

*Norman K. Christensen*  
Reviewer: Norman K. Christensen

*Norman K. Christensen*  
Laboratory Supervisor: Norman K. Christensen

960 West LeVoy Drive / Salt Lake City, Utah 84123-2500 / (801) 266-7700



## ENVIRONMENTAL SOIL REPORT

Form EPRS-C

Page 2 of 2

Date

9/25/90

Agency Identification Number S90-0807

### Method Index

### -- Method Reference --

- [1] EPA-600/4-79-020 "Methods for Chemical Analysis of Water and Wastes", March 1983 (Modified for use with soils.)
- [2] SW-846 "Test Methods for Evaluating Solid Waste", September 1986.



**Date Analyzed:**

Davis & Moore

**Field Comment:**

REVISÉ 1/27/1990.





## ANALYTICAL REPORT

Form ARF-AL

Page 1 of 2

Part 1 of 1

Date 9/20/90Agency Identification Number S90-0752-CCAccount No. 03018

Dames & Moore  
127 South 500 East Suite 300  
Salt Lake City, UT 84102-1959  
Attention: Terry Vandell

Telephone (801) 521-9255

## Sampling Collection and Shipment

Sampling Site Maverik Kirtland, NM Date of Collection August 31, 1990Date Samples Received at DataChem September 03, 1990

## Analysis

Method of Analysis 8020Date(s) of Analysis September 13, 1990

## Analytical Results

Field Sample Number	DataChem Lab Number	Sample Type	Benzene $\mu\text{g/g}$	Ethyl Benzene $\mu\text{g/g}$	Toluene $\mu\text{g/g}$	Xylene $\mu\text{g/g}$				
SITE 1	EJ 4513	SOIL	ND*	ND*	ND*	ND*				
SITE 2	EJ 4514	SOIL	ND*	ND*	ND*	2.				†
SITE 3	EJ 4515	SOIL	ND*	1.	ND*	34.				†
SITE 4	EJ 4516	SOIL	ND*	ND*	ND*	.4				
SITE 5	EJ 4517	SOIL	ND*	ND*	.07	.4				
SW#1N	EJ 4518	SOIL	ND*	ND*	ND*	ND*				
SW#2C	EJ 4519	SOIL	ND*	ND*	ND*	ND*				†
SW#3S	EJ 4520	SOIL	ND*	ND*	ND*	ND*				
* Limit of Detection			.05	.05	.05	.10				

† See comment on last page.  
ND Parameter not detected.  
NR Parameter not requested.

\*\* Parameter not analyzed (See comment on last page).  
( ) Parameter between LOD and LOQ.

Analyst: Thomas BeachReviewer: Kathleen A. KnaubLaboratory Supervisor: Terry R. Vayo

960 West LeVoy Drive / Salt Lake City, Utah 84123-2547 / (801) 266-7700



# ANALYTICAL REPORT

Form ARF-C

Page 2 of 2

Date 9/2/90  
Agency Identification Number S90-0752-CC

## General Set Comments

LOD set according to dilution for individual samples. See sample comments. Positive results for Toluene and Ethylbenzene were within the calculated retention time windows. However, samples contained a large number of interfering hydrocarbon peaks.

## Sample Comments

DataChem Lab  
Number

-- Comment --

EJ 4514	LOD: B,E,T=.5 X=1.
EJ 4515	LOD: B,E,T=.5 X=1.
EJ 4519	LOD: B,E,T=.5 X=1.

# CHAIN OF CUSTODY RECORD

Date Extracted: 9.6.90  
 Date Digested: 9.13.90  
 Date Analyzed: 9.13.90

Account: 3018	DCL Set ID: S900752	Sponsor: James Moore	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">BTEX</div>		TPH (418.1)	EP TOX
Field Comment:						

Date Sampled	Field ID Number	DCL Sample Number(s)	Sample Matrix	Number of Containers	Remarks
08-31-90	SIRE 1	4513	Soil	3	(1- BTEX, 1-TPH (418.1), 1- EP TOX metals)
	2	4514			
	3	4515			
	4	4516			
	5	4517			
	SW #1N	4518		1	1- BTEX
	↓ #2C	4519			
	↓ #3S	4520			

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
<i>[Signature]</i>	09.08.90 0830	Sample Storage	<i>[Signature]</i>	9.6.90 4PM	Tom Bosch
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)

Final Disposition: \_\_\_\_\_ Signature: \_\_\_\_\_  
 DataChem Laboratories / 900 West LeVoy Drive / Salt Lake City, Utah 84123  
 REVISED 1/25/1990.

## ANALYTICAL REQUEST FORM

1. ☐ REGULAR Status

☒ RUSH Status Requested - ADDITIONAL CHARGE

CONFIRMATION WITH DATACHEM LABORATORIES  
REQUIRED FOR SCHEDULING AND PRICING

As discussed  
w. R. Patten

2. Date 8/30/90 Purchase Order No. 14819-005-5304

3. Company Name DAMES & MOORE

Address 127 S. 500 E. Suite 300  
SLC, UT 84102-1959

Person to Contact Terry Vandell

Telephone (801) 521-9255

Billing Address (if different from above)

### 4. Sample Collection

Sampling Site MAVERICK KIRTLAND, NM

Industrial Process Petroleum Refinery

Date of Collection 8/31/90

Time Collected

Date of Shipment 8/31/90

Chain of Custody No.

### 5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
4513	SITE 1	Soil	802 Amber	BTEX, TPH (418.1), EP TOX Metals
4514	SITE 2	Soil	SAME	(Composite of 10 samples per SITE)
4515	SITE 3	Soil	SAME	
4516	SITE 4	Soil	SAME	
4517	SITE 5	"	"	"
4518	SW#1N	Soil	40Z	BTEX (Composite of 10 samples per soil sample)
4519	SW#2C	Soil	40Z	BTEX
4520	SW#3S	Soil	40Z	BTEX

\*Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk Sample; Blood; Urine; Tissue; Soil; Water; Other

### 6. Q C REQUIREMENTS

MUST BE COMPLETED - See  
General Services Terms and  
Conditions: QC samples billed  
at regular sample rate

☐ METHOD QC SAMPLES

(Lab QC according to published methods)

☐ PROJECT PLAN QC SAMPLES

(Lab QC according to provided QA/QC Plan)

☒ NO QC SAMPLES REQUESTED

(May not conform to Agency requirements)

☐ OTHER (as specified below)

Comments

Need Results By Sept. 17th '90

Total Cost  $\approx$  \$ 2036

Possible Contamination and/or Chemical Hazards

7. Requested by T.D. VANDPELL

960 West LeVoy Drive / Salt Lake City, UT 84123  
4388 Glendale-Milford Road / Cincinnati, OH 45242

800-356-9135 or 801-266-7700 / FAX: 801-268-9992  
800-458-1493 or 513-733-5336 / FAX: 513-733-5347

DATACHEM LABORATORIES - A SORENSON COMPANY

DISTRIBUTION:

WHITE - LABORATORY COPY

CANARY - CUSTOMER COPY



# ENVIRONMENTAL WASTE REPORT (EP-TOX)

Form EPTOX-A

Page 1 of 2

Part 1 of 1

Date 9/18/90  
Agency Identification Number S90-0752-AC  
Account No. 03018

Dames & Moore  
127 South 500 East Suite 300  
Salt Lake City, UT 84102-1959  
Attention: Terry Vandell

Telephone (801) 521-9255

## Sampling Collection and Shipment

Sampling Site Maverik Kirtland, NM Date of Collection August 31, 1990Date Samples Received at DataChem September 03, 1990

## Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	Field Number	Lab Number	SITE 1	SITE 2	SITE 3	SITE 4	SITE 5	Limit of Detection
							EJ 4513	EJ 4514	EJ 4515	EJ 4516	EJ 4517	
Arsenic (As)	09/17/1990	mg/L					ND*	ND*	ND*	ND*	ND*	0.3
	6010 [1]	1310 [1]										
Barium (Ba)	09/17/1990	mg/L					1.1	1.9	0.9	1.0	1.2	0.5
	6010 [1]	1310 [1]										
Cadmium (Cd)	09/17/1990	mg/L					ND*	ND*	ND*	ND*	ND*	0.05
	6010 [1]	1310 [1]										
Chromium (Cr)	09/17/1990	mg/L					ND*	ND*	ND*	ND*	ND*	0.05
	6010 [1]	1310 [1]										
Lead (Pb)	09/17/1990	mg/L					ND*	ND*	ND*	ND*	ND*	0.3
	6010 [1]	1310 [1]										
Mercury (Hg)	09/13/1990	mg/L					ND*	ND*	ND*	ND*	ND*	0.0002
	7470 [1]	1310 [1]										
Selenium (Se)	09/17/1990	mg/L					ND*	ND*	ND*	ND*	ND*	0.3
	6010 [1]	1310 [1]										
Silver (Ag)	09/17/1990	mg/L					ND*	ND*	ND*	ND*	ND*	0.05
	6010 [1]	1310 [1]										

† See comment on last page.

ND Parameter not detected.

NR Parameter not requested.

1 Analyses completed on or before this date.

\*\* Parameter not analyzed (See comment page).

() Parameter between LOD and LOQ.

[] Method Reference (See comments page.)

Analyst: Brian W. MotesReviewer: Henry F. LinLaboratory Supervisor: Brent E. Stephens

960 West LeVoy Drive / Salt Lake City, Utah 84123-2500 / (801) 266-7700



ENVIRONMENTAL WASTE REPORT  
(EP-TOX)

Form EPTOX-C  
Page 2 of 2

Date 9/18/90  
Agency Identification Number S90-0752-AC

Method Index

-- Method Reference --

- [1] SW-846 "Test Methods for Evaluating Solid Waste", September 1986.



# CHAIN OF CUSTODY RECORD

Date Extracted: 7/10/90  
 Date Digested: 7/11/90  
 Date Analyzed:

Account: 3018	DCL Set ID: S900752	Sponsor: James & Moore	S P L I T T S		BTEX	TPH (418.1)	EP TOX
Field Comment:							

Date Sampled	Field ID Number	DCL Sample Number(s)	Sample Matrix	Number of Containers	Remarks
08-31-90	Sire 1	EJ 4513	Soil	3	(1- BTEX, 1-TPH (418.1), 1- EP TOX metals)
	2	4514			
	3	4515			
	4	4516			
	5	4517			
	SW #1N	4518		1	1- BTEX
	↓ #2C	4519			
	↓ #3S	4520			

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Boyd Nelson	09-08-90 0830	Sample Storage	sample storage	9/10/90 16:00	Boyd Nelson
Boyd Nelson	9/11/90 20:00	Captha Adams	Captha Adams	9/10/90 23:00	Boyd Nelson

Final Disposition:

Signature:

DataChem Laboratories/ 900 West LeVoy Drive / Salt Lake City, Utah 84123

REVISED 1/25/1990

## ANALYTICAL REQUEST FORM

1. ☐ REGULAR Status

☒ RUSH Status Requested - ADDITIONAL CHARGE

CONFIRMATION WITH DATACHEM LABORATORIES  
REQUIRED FOR SCHEDULING AND PRICING

*As discussed  
w. R. Potter*

2. Date 8/30/90 Purchase Order No. 14819-005-5304

3. Company Name DAMES & MOORE

Address 127 S. 500 E. Suite 300

SLC, UT 84102-1959

Person to Contact Terry Vandell

Telephone (801) 521-9255

Billing Address (if different from above)

### 4. Sample Collection

Sampling Site MAVERICK KIRZAND, NM

Industrial Process Petroleum Refinery

Date of Collection 8/31/90

Time Collected

Date of Shipment 8/31/90

Chain of Custody No.

### 5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
<del>4513</del>	<del>SITE 1</del>	<del>Soil</del>	<del>802 Ambu</del>	<del>BTEX, TPH (418.1), EP TOX Metals</del>
4514	SITE 2	Soil	SAME	(Composite of 10 samples per SITE)
4515	SITE 3	Soil	SAME	
4516	SITE 4	Soil	SAME	
4517	SITE 5			
4518	SW#1N	Soil	40Z	BTEX (Composite of 10 samples per soil sample)
4519	SW#2C	Soil	40Z	BTEX
4520	SW#3S	Soil	40Z	BTEX

\*Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk Sample; Blood; Urine; Tissue; Soil; Water; Other

### 6. Q C REQUIREMENTS

**MUST BE COMPLETED** - See General Services Terms and Conditions: QC samples billed at regular sample rate

☐ METHOD QC SAMPLES

(Lab QC according to published methods)

☐ PROJECT PLAN QC SAMPLES

(Lab QC according to provided QA/QC Plan)

☒ NO QC SAMPLES REQUESTED

(May not conform to Agency requirements)

☐ OTHER (as specified below)

Comments

Need Results By Sept. 17<sup>th</sup> '90

Total Cost  $\approx$  \$ 2036

Possible Contamination and/or Chemical Hazards

7. Requested by

T.D. VANDELL

960 West LeVoy Drive / Salt Lake City, UT 84123  
4388 Glendale-Milford Road / Cincinnati, OH 45242

800-356-9135 or 801-266-7700 / FAX: 801-268-9992  
800-458-1493 or 513-733-5336 / FAX: 513-733-5347

DATACHEM LABORATORIES - A SORENSON COMPANY

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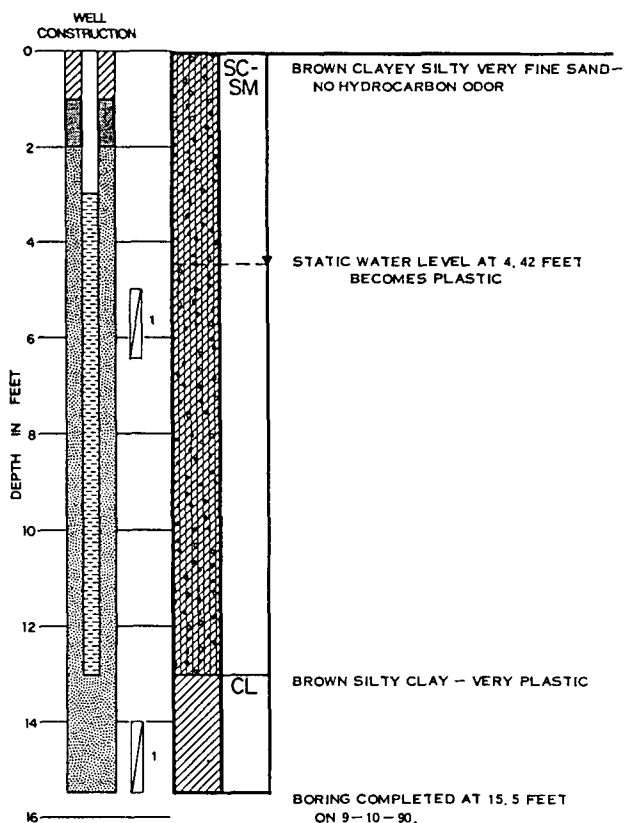
APPENDIX E  
NEW MONITOR WELL CONSTRUCTION SPECIFICATIONS

## APPENDIX E

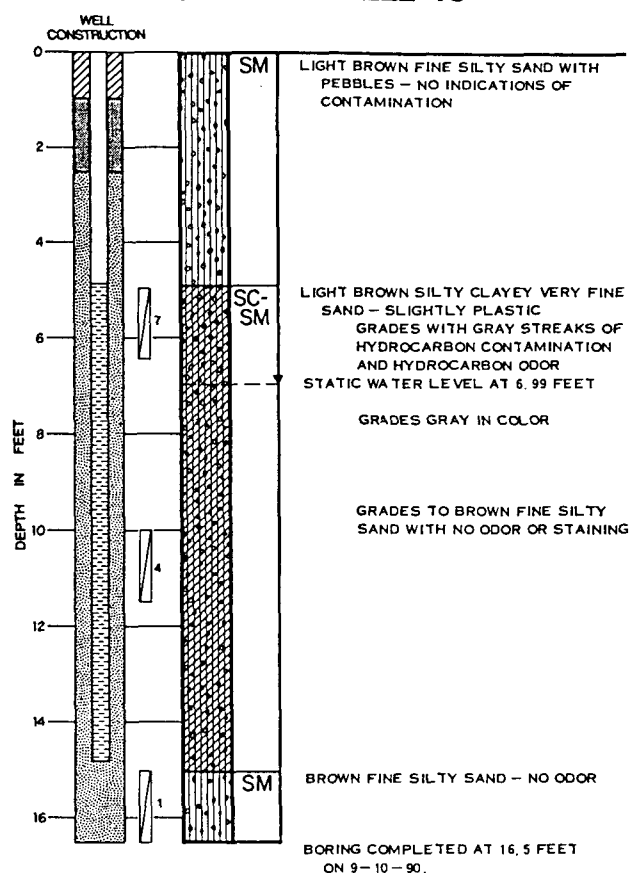
### NEW MONITOR WELL CONSTRUCTION SPECIFICATIONS

Geologic logs and well completion specifications for the 7 new monitor wells completed in the upper shallow aquifer in September 1990 are included on plates E-1 and E-2. The wells were drilled with a hollow-stem auger drilling rig, and subsurface samples were obtained via drill cuttings and split-spoon sampling at selected depths as indicated on the logs. Although an Organic Vapor Analyzer (OVA) meter was on-site, it malfunctioned during the entire drilling program and no OVA readings were obtained. Noticeable hydrocarbon odors were detected (smelled and observed) at the zones as indicated, in MW-17, MW-18 and MW-22.

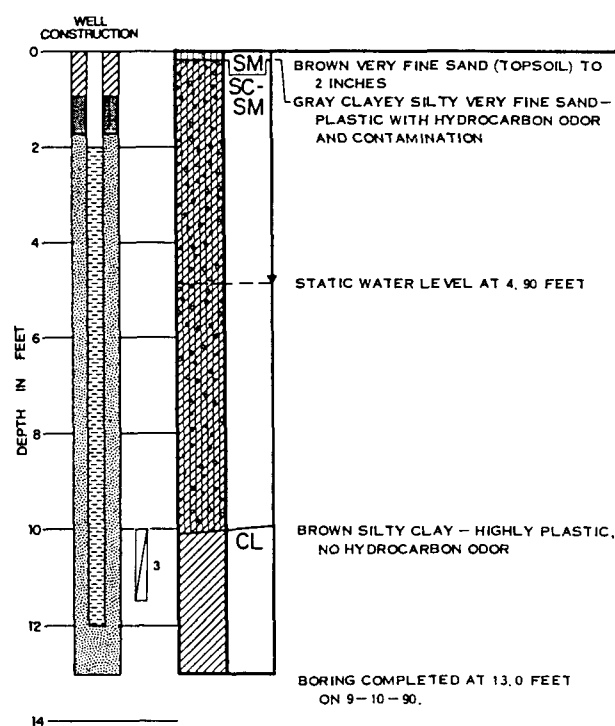
## MONITOR WELL 16



## MONITOR WELL 18



## MONITOR WELL 17

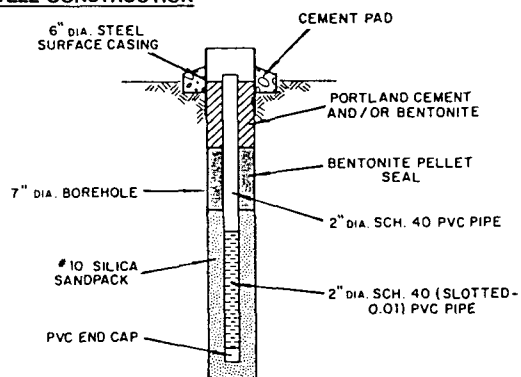


### KEY TO SAMPLING



DEPTH AT WHICH SPLIT SPOON SAMPLE  
WAS EXTRACTED  
BLOWS REQUIRED TO DRIVE SPLIT SPOON  
SAMPLER ONE FOOT WITH A 140 POUND  
HAMMER DROPPING 30 INCHES

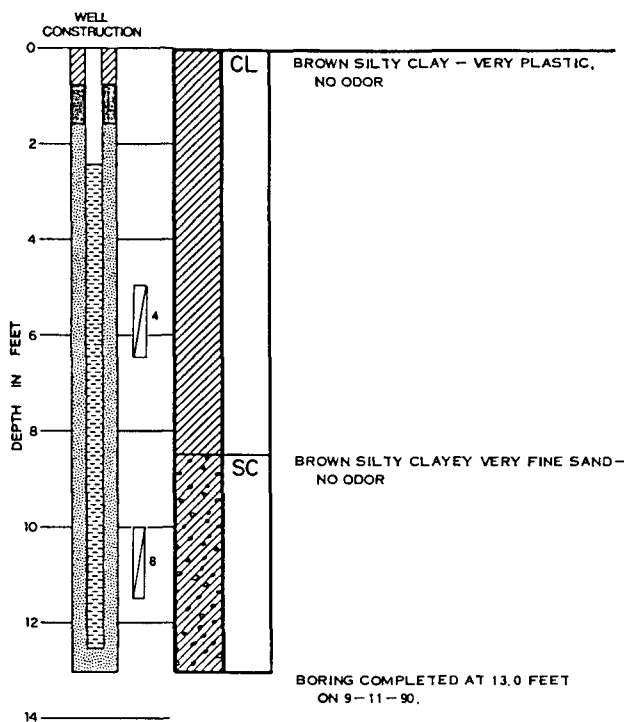
### KEY TO WELL CONSTRUCTION



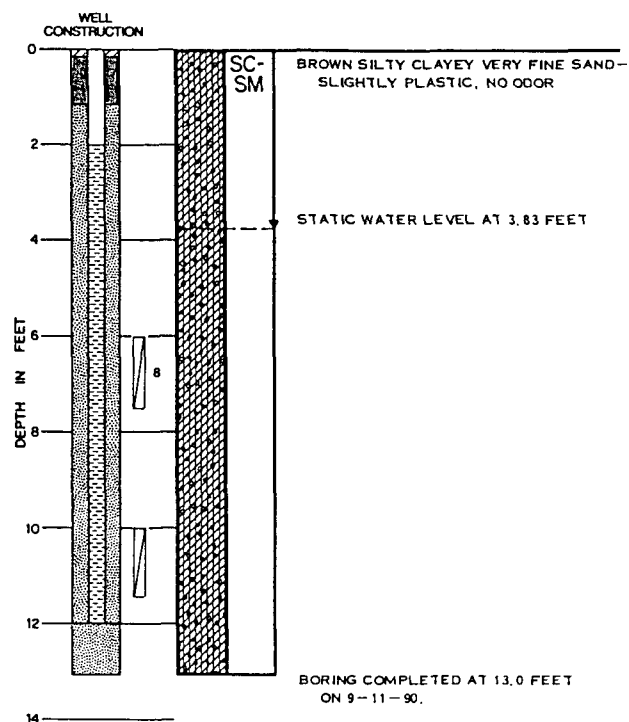
## LOG OF BORINGS

Dames & Moore

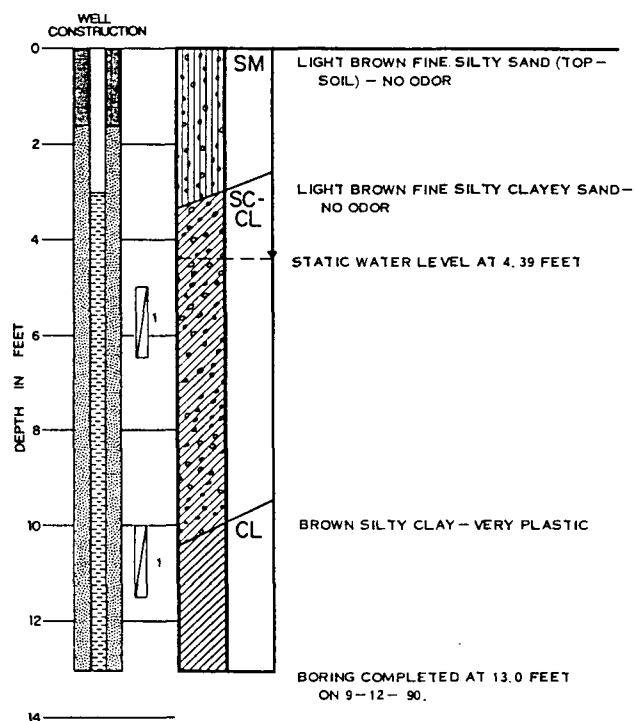
## MONITOR WELL 19



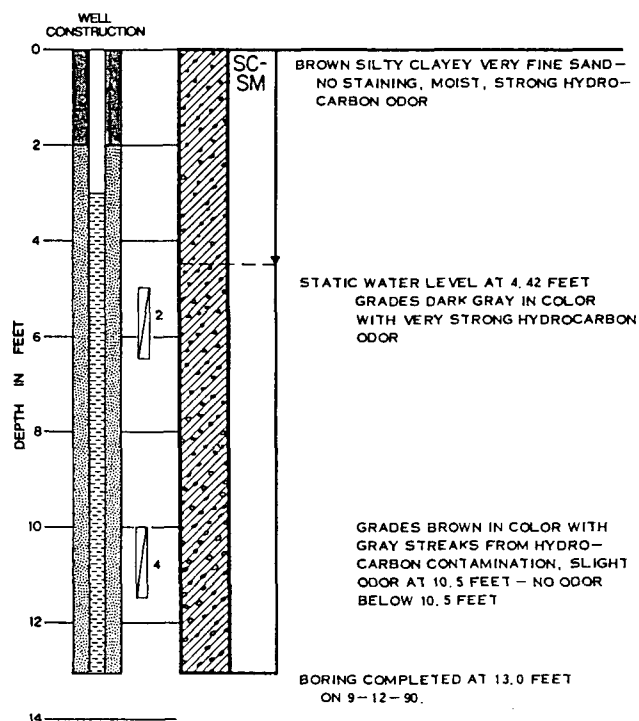
## MONITOR WELL 20



## MONITOR WELL 21



## MONITOR WELL 22



# LOG OF BORINGS

APPENDIX F

FIELD AND LABORATORY GROUND WATER QUALITY DATA SAMPLING AND ANALYSIS  
AND QA/QC FOR ROUND 5 LONG-TERM REMEDIATION MONITORING  
(AND PRIOR ROUNDS 1, 2 AND 3 AND ROUNDS 1, 2, 3 AND 4 LONG-TERM MONITORING)

## APPENDIX F

### FIELD AND LABORATORY GROUND WATER QUALITY DATA SAMPLING AND ANALYSIS AND QA/QC FOR ROUND 5 LONG-TERM REMEDIATION MONITORING (AND PRIOR ROUNDS 1, 2 AND 3 AND ROUNDS 1, 2, 3 AND 4 LONG-TERM MONITORING)

#### WATER QUALITY SAMPLING

The monitor wells sampled for round 5 long-term remediation monitoring were purged with a teflon bailer, as in all previous sampling rounds. Ground water samples were then collected, preserved and analyzed in accordance with EPA guidance. All samples were analyzed by Rocky Mountain Analytical Laboratory (RMAL) a division of ENSECO, Incorporated, a well known multi-state certified and EPA Contract Laboratory-Program laboratory in Arvada, Colorado. RMAL has conducted the laboratory analysis on all of the prior samples taken at the project site. Bottom samples from the wells were collected by lowering a teflon bailer equipped with an end ball valve to the bottom of the wells. Samples were collected after 3 casing volumes of water had been removed. Static water level data and the results of the field water quality analytical tests are presented in Table F-1.

The drop pipe that had been installed in monitor well MW-13 prior to Round 2 sampling (as described in our February 1988 report), was also used during this sampling round. The drop pipe was installed after a free oil phase had been detected in MW-13 during Round 1 sampling.

Sample bottles with appropriate preservatives (as detailed in RMAL's report), were shipped directly to the site by the laboratory. All water samples were iced immediately after collection and shipped to RMAL on the day of collection via overnight courier. Chain-of-custody documentation was maintained.



## LABORATORY ANALYSIS

Analytical results from RMAL for the major inorganic and organic parameters for this round and previous sampling rounds for the five designated monitor wells are included in Table F-2. The data are presented in columns for comparative purposes. The detailed report from RMAL for Round 5 long-term monitoring is also included in this appendix.

The water quality analyses for long-term monitoring include a selected list of analytes based on those detected in wells in previous rounds, and as agreed to by the EID (September 14, 1988). RMAL conducted analyses for 24 halogenated volatile organics, 8 aromatic volatile organics and 3 inorganic constituents. The specific parameters are listed in Table 1 along with the analytical methods used. GC methods 601 and 602 were used to detect volatile organics.

TABLE F-1

SUMMARY OF FIELD DATA  
FOR LONG-TERM GROUND WATER QUALITY  
REMEDICATION MONITORING ROUNDS 1, 2, 3, 4 AND 5<sup>(1)</sup>

Well	Depth to Water (From Ground Surface, in ft.)					Ground Water		Elevations Top of Casing <sup>(2)</sup>	Ground Surface <sup>(3)</sup>	pH (pH units)		
	Round 1	Round 2	Round 3	Round 4	Round 5	Round 4	Round 5			Round 1	Round 3	Round 4
MW-9	2.77	1.7	0.90	1.9	2.27	5181.75	5181.75	5191.39	5184.02	7.04	7.58	7.43
MW-10	2.27	2.5	1.20	1.34	2.95	5186.58	5186.58	5189.80	5189.53	6.46	7.48	7.37
MW-13	1.9	1.9	0.35	0.50	2.95	5184.61	5184.61	5187.76	5187.56	8.06	7.60	-
MW-14	3.0	4.5	1.58	3.10	3.95	5186.75	5186.75	5194.47	5190.7	7.08	7.40	7.12
MW-15	1.0	2.3	0.77	1.06	2.35	5183.05	5183.05	5188.80	5185.4	6.45	7.27	6.95
MW-16	-	-	-	-	4.42	5189.32	5189.32	5195.3	5193.74	-	-	-
MW-17	-	-	-	-	4.9	5188.53	5188.53	5194.79	5193.43	-	-	-
MW-18	-	-	-	-	6.99	5192.15	5192.15	5200.73	5199.14	-	-	-
MW-19	-	-	-	-	-	-	-	5190.00	5188.28	-	-	-
MW-20	-	-	-	-	3.83	5186.27	5186.27	5191.47	5190.10	-	-	-
MW-21	-	-	-	-	4.39	5189.23	5189.23	5195.09	5193.62	-	-	-
MW-22	-	-	-	-	4.42	5190.16	5190.16	5196.33	5194.58	-	-	-

7.00

TABLE F-1 (Continued)

<u>Well</u>	<u>Conductivity</u> <u>umhos/cm</u>					<u>Temperature</u>			<u>Remarks<sup>(4)</sup></u>
	<u>Round 1</u>	<u>Round 3</u>	<u>Round 4</u>	<u>Round 5</u>		<u>Round 1</u>	<u>Round 3</u>	<u>Round 4</u>	
MW-9	2,000	1,600	-	1,550		-	-	-	Silty (bailed dry on 9/10/90)
MW-10	3,500	1,350	1,700	1,550		-	-	-	Silty (bailed dry on 9/11/90)
MW-13	2,500	5,100	-	2,950 <sup>(5)</sup>		-	-	-	Clear (bailed dry on 9/10, 11, 13, 14/90)
MW-14	8,000	3,350	6,000	5,450		-	-	3.65	Silty (bailed dry on 9/10/90)
MW-15	3,500	2,500	5,800	3,250		-	-	6.15	Initially rusty, Cleared but silty (bailed dry on 9/11/90)
MW-16	-	-	-	1,370		-	-	-	Silty, no odor
MW-17	-	-	-	2,500		-	-	-	Silty, very strong hydrocarbon odor
MW-18	-	-	-	1,500		-	-	-	Silty, slight hydrocarbon odor
MW-19	-	-	-	3,000		-	-	-	Silty, no odor
MW-20	-	-	-	1,350		-	-	-	Silty, no odor
MW-21	-	-	-	1,500		-	-	-	Silty, no odor
MW-22	-	-	-	1,900		-	-	-	Silty, strong hydrocarbon odor

TABLE F-1 (Continued)

---

(1)	Round 1 Data collected April 27, 1989 and May 4, 1989.
	Round 2 Data collected August 10, 1989, measured from top of casing.
	Round 3 Data collected December 11, 12, 1989.
	Round 4 Data collected May 2, 5, 6, 1990.
	Round 5 Data collected September 13, 14 and 15, 1990.
(2)	North side of steel casing
(3)	Top of cement pad
(4)	Round 5 Remarks.
(5)	Taken of iced sample
-	Not tested
NC	No Comment

Note: No field tests were conducted during Round 2 sampling.

TABLE F-2

## MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION DATE SAMPLED	MW-9 11-23-87	MW-9 2-22-88	MW-9 10-13-88	MW-9 4-27-89	MW-9 8-10-89	MW-9 12-12-89	MW-9 1-16-90
INORGANIC PARAMETERS (mg/L except as noted)							
Calcium (Ca)	324.0	396.0	*	*	*	*	*
Magnesium (Mg)	29.0	41.0	*	*	*	*	*
Sodium (Na)	146.0	357.0	*	*	*	*	*
Potassium (K)	< 5.0	< 5.0	*	*	*	*	*
Iron (Fe)	< .05	< .05	*	*	*	*	*
Manganese (Mn)	*	.110	*	*	*	*	*
Ammonia (as N)	< .1	< .1	*	*	*	*	*
Chloride (Cl)	43.0	81.0	*	39.0	37.0	38.0	*
Sulfate (SO <sub>4</sub> )	863.	1510.	*	727.	624.	638.	*
Fluoride (F)	1.0	.8	*	*	*	*	*
Nitrate and Nitrite (as N)	< .1	< .1	*	*	*	*	*
Total Alkalinity	372.0	250.0	*	*	*	*	*
Bicarbonate Alkalinity	*	250.0	*	*	*	*	*
Carbonate Alkalinity	*	*	*	*	*	*	*
Bicarbonate (HCO <sub>3</sub> )	*	304.8	*	*	*	*	*
Carbonate (CO <sub>3</sub> )	*	*	*	*	*	*	*
FIELD AND LABORATORY MEASUREMENTS							
Temperature (Degrees C)	13.3	*	15.5	14.8	*	*	*
Field pH	7.11	7.08	6.52	7.04	*	*	*
Lab pH (units)	7.59	7.71	*	*	*	*	*
Field Conductivity (umhos/cm)	1400.0	2200.0	1600.0	2000.0	*	*	*
Lab Conductivity (umhos/cm)	1850.0	3000.0	*	*	*	*	*
Total Dissolved Solids(mg/l)	1520.0	2160.0	*	1420.0	1200.0	1260.0	*
VOLATILE ORGANICS DETECTED (ug/L)							
Benzene	< .50	< .50	< .50	< .50	< .50	< .50	*
Ethylbenzene	< .50	< .50	< .50	< .50	< .50	< .50	*
Toluene	< .50	< .50	< .50	< .50	< .50	< .50	*
m-Xylene	< .50	< .50	*	*	*	*	*
o,p-Xylene	< .50	< .50	*	*	*	*	*
Total Xylene	*	*	< .50	< 1.00	< 1.00	< 1.00	*
1,2 Dichloroethane	8.30	8.60	5.60	4.50	3.40	2.60	*
TOTAL ORGANIC LEAD (mg/L)							
Total Organic Lead	< .010	.004	*	*	*	*	*

&lt;: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)

## MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION	MW-9	MW-9
DATE SAMPLED	5- 2-90	9-13-90

## INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	*	*
Magnesium (Mg)	*	*
Sodium (Na)	*	*
Potassium (K)	*	*
Iron (Fe)	*	*
Manganese (Mn)	*	*
Ammonia (as N)	*	*
Chloride (Cl)	35.0	35.4
Sulfate (SO <sub>4</sub> )	574.	551.
Fluoride (F)	*	*
Nitrate and Nitrite (as N)	*	*
Total Alkalinity	*	*
Bicarbonate Alkalinity	*	*
Carbonate Alkalinity	*	*
Bicarbonate (HCO <sub>3</sub> )	*	*
Carbonate (CO <sub>3</sub> )	*	*

## FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*	*
Field pH	*	*
Lab pH (units)	*	*
Field Conductivity (umhos/cm)	*	*
Lab Conductivity (umhos/cm)	*	*
Total Dissolved Solids(mg/l)	1190.0	1140.0

## VOLATILE ORGANICS DETECTED (ug/L)

Benzene	< .50	< .50
Ethylbenzene	< .50	< .50
Toluene	< .50	< .50
m-Xylene	*	*
o,p-Xylene	*	*
Total Xylene	< 1.00	< 1.00
1,2 Dichloroethane	3.30	2.10

## TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*	*
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&lt;: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)

## MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION DATE SAMPLED	MW-10 11-23-87	MW-10 2-23-88	MW-10 10-12-88	MW-10 4-27-89	MW-10 8-10-89	MW-10 12-12-89	MW-10 1-16-90
INORGANIC PARAMETERS (mg/L except as noted)							
Calcium (Ca)	126.0	196.0	*	*	*	*	*
Magnesium (Mg)	22.0	41.0	*	*	*	*	*
Sodium (Na)	250.0	578.0	*	*	*	*	*
Potassium (K)	< 5.0	< 5.0	*	*	*	*	*
Iron (Fe)	< .05	< .05	*	*	*	*	*
Manganese (Mn)	*	5.200	*	*	*	*	*
Ammonia (as N)	< .1	< .1	*	*	*	*	*
Chloride (Cl)	46.0	191.0	*	146.0	45.0	34.0	*
Sulfate (SO <sub>4</sub> )	568.	1640.	*	1190.	470.	404.	*
Fluoride (F)	.8	.7	*	*	*	*	*
Nitrate and Nitrite (as N)	< .1	< .1	*	*	*	*	*
Total Alkalinity	153.0	271.0	*	*	*	*	*
Bicarbonate Alkalinity	*	271.0	*	*	*	*	*
Carbonate Alkalinity	*	*	*	*	*	*	*
Bicarbonate (HCO <sub>3</sub> )	*	330.4	*	*	*	*	*
Carbonate (CO <sub>3</sub> )	*	*	*	*	*	*	*
FIELD AND LABORATORY MEASUREMENTS							
Temperature (Degrees C)	12.5	*	15.6	13.0	*	*	*
Field pH	7.66	8.22	6.25	6.46	*	*	*
Lab pH (units)	7.74	7.70	*	*	*	*	*
Field Conductivity (umhos/cm)	1280.0	3600.0	1375.0	3500.0	*	*	*
Lab Conductivity (umhos/cm)	1640.0	3720.0	*	*	*	*	*
Total Dissolved Solids(mg/l)	1240.0	2725.0	*	2310.0	990.0	910.0	*
VOLATILE ORGANICS DETECTED (ug/L)							
Benzene	< .50	< .50	< .50	< .50	< .50	< .50	*
Ethylbenzene	< .50	< .50	< .50	< .50	< .50	< .50	*
Toluene	< .50	< .50	< .50	.52	< .50	< .50	*
m-Xylene	< .50	< .50	*	*	*	*	*
o,p-Xylene	< .50	< .50	*	*	*	*	*
Total Xylene	*	*	< .50	< 1.00	< 1.00	< 1.00	*
1,2 Dichloroethane	3.20	1.30	5.70	3.30	1.60	2.80	*
TOTAL ORGANIC LEAD (mg/L)							
Total Organic Lead	< .020	.009	*	*	*	*	*

&lt;: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)

## MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION	MW-10	MW-10
DATE SAMPLED	5- 2-90	9-13-90

## INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	*	*
Magnesium (Mg)	*	*
Sodium (Na)	*	*
Potassium (K)	*	*
Iron (Fe)	*	*
Manganese (Mn)	*	*
Ammonia (as N)	*	*
Chloride (Cl)	72.1	38.9
Sulfate (SO <sub>4</sub> )	577.	436.
Fluoride (F)	*	*
Nitrate and Nitrite (as N)	*	*
Total Alkalinity	*	*
Bicarbonate Alkalinity	*	*
Carbonate Alkalinity	*	*
Bicarbonate (HCO <sub>3</sub> )	*	*
Carbonate (CO <sub>3</sub> )	*	*

## FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*	*
Field pH	*	*
Lab pH (units)	*	*
Field Conductivity (umhos/cm)	*	*
Lab Conductivity (umhos/cm)	*	*
Total Dissolved Solids(mg/L)	1300.0	952.0

## VOLATILE ORGANICS DETECTED (ug/L)

Benzene	< .50	< .50
Ethylbenzene	< .50	< .50
Toluene	< .50	< .50
m-Xylene	*	*
o,p-Xylene	*	*
Total Xylene	< 1.00	< 1.00
1,2 Dichloroethane	2.00	1.40

## TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*	*
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&lt;: Parameter value is less than given detection limits

\*: Parameter was not analyzed.



TABLE F-2 (Continued)  
MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION DATE SAMPLED	MW-13 11-27-87	MW-13 2-24-88	MW-13 10-12-88	MW-13 5- 4-89	MW-13 8-10-89	MW-13 12-12-89	MW-13 1-16-90
INORGANIC PARAMETERS (mg/L except as noted)							
Calcium (Ca)	364.0	219.0	*	*	*	*	*
Magnesium (Mg)	105.0	47.0	*	*	*	*	*
Sodium (Na)	666.0	370.0	*	*	*	*	*
Potassium (K)	24.0	< 5.0	*	*	*	*	*
Iron (Fe)	.39	.12	*	*	*	*	*
Manganese (Mn)	*	1.900	*	*	*	*	*
Ammonia (as N)	.5	.5	*	*	*	*	*
Chloride (Cl)	257.0	82.0	*	94.0	78.0	170.0	*
Sulfate (SO <sub>4</sub> )	1980.	920.	*	1350.	1350.	1890.	*
Fluoride (F)	1.0	.8	*	*	*	*	*
Nitrate and Nitrite (as N)	.3	< .1	*	*	*	*	*
Total Alkalinity	419.0	581.0	*	*	*	*	*
Bicarbonate Alkalinity	*	581.0	*	*	*	*	*
Carbonate Alkalinity	*	*	*	*	*	*	*
Bicarbonate (HCO <sub>3</sub> )	*	708.4	*	*	*	*	*
Carbonate (CO <sub>3</sub> )	*	*	*	*	*	*	*
FIELD AND LABORATORY MEASUREMENTS							
Temperature (Degrees C)	8.1	*	18.3	16.0	*	*	*
Field pH	8.14	8.36	7.51	8.06	*	*	*
Lab pH (units)	7.89	8.11	*	*	*	*	*
Field Conductivity (umhos/cm)	2300.0	2600.0	4350.0	2500.0	*	*	*
Lab Conductivity (umhos/cm)	4300.0	2650.0	*	*	*	*	*
Total Dissolved Solids(mg/l)	3700.0	1850.0	*	2480.0	2660.0	3580.0	*
VOLATILE ORGANICS DETECTED (ug/L)							
Benzene	< .50	< .50	< .50	< .50	< .50	< .50	*
Ethylbenzene	.54	< .50	< .50	< .50	< .50	< .50	*
Toluene	< .50	< .50	< .50	< .50	< .50	< .50	*
m-Xylene	1.40	1.10	*	*	*	*	*
o,p-Xylene	.83	.58	*	*	*	*	*
Total Xylene	*	*	< .50	< 1.00	< 1.00	< 1.00	*
1,2 Dichloroethane	< 1.00	1.90	1.90	7.40	6.00	< 1.00	*
TOTAL ORGANIC LEAD (mg/L)							
Total Organic Lead	< .010	< .004	*	*	*	*	*

<: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)

## MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION	MW-13	MW-13
DATE SAMPLED	5- 6-90	9-13-90

## INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	*	*
Magnesium (Mg)	*	*
Sodium (Na)	*	*
Potassium (K)	*	*
Iron (Fe)	*	*
Manganese (Mn)	*	*
Ammonia (as N)	*	*
Chloride (Cl)	112.0	140.0
Sulfate (SO <sub>4</sub> )	1480.	1630.
Fluoride (F)	*	*
Nitrate and Nitrite (as N)	*	*
Total Alkalinity	*	*
Bicarbonate Alkalinity	*	*
Carbonate Alkalinity	*	*
Bicarbonate (HCO <sub>3</sub> )	*	*
Carbonate (CO <sub>3</sub> )	*	*

## FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*	*
Field pH	*	*
Lab pH (units)	*	*
Field Conductivity (umhos/cm)	*	*
Lab Conductivity (umhos/cm)	*	*
Total Dissolved Solids(mg/L)	2890.0	3040.0

## VOLATILE ORGANICS DETECTED (ug/L)

Benzene	< .50	< .50
Ethylbenzene	< .50	< .50
Toluene	< .50	1.50
m-Xylene	*	*
o,p-Xylene	*	*
Total Xylene	< 1.00	< 1.00
1,2 Dichloroethane	< 1.00	< 1.00

## TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*	*
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&lt;: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)  
MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION DATE SAMPLED	MW-14 11-27-87	MW-14 2-24-88	MW-14 10-12-88	MW-14 4-27-89	MW-14 8-10-89	MW-14 12-12-89	MW-14 1-16-90
INORGANIC PARAMETERS (mg/L except as noted)							
Calcium (Ca)	*	*	*	*	*	*	*
Magnesium (Mg)	*	*	*	*	*	*	*
Sodium (Na)	*	*	*	*	*	*	*
Potassium (K)	*	*	*	*	*	*	*
Iron (Fe)	*	*	*	*	*	*	*
Manganese (Mn)	*	*	*	*	*	*	*
Ammonia (as N)	*	*	*	*	*	*	*
Chloride (Cl)	*	*	*	406.0	114.0	116.0	*
Sulfate (SO <sub>4</sub> )	*	*	*	3320.	1360.	1370.	*
Fluoride (F)	*	*	*	*	*	*	*
Nitrate and Nitrite (as N)	*	*	*	*	*	*	*
Total Alkalinity	*	*	*	*	*	*	*
Bicarbonate Alkalinity	*	*	*	*	*	*	*
Carbonate Alkalinity	*	*	*	*	*	*	*
Bicarbonate (HCO <sub>3</sub> )	*	*	*	*	*	*	*
Carbonate (CO <sub>3</sub> )	*	*	*	*	*	*	*
FIELD AND LABORATORY MEASUREMENTS							
Temperature (Degrees C)	*	*	*	16.2	*	*	*
Field pH	*	*	*	7.08	*	*	*
Lab pH (units)	*	*	*	*	*	*	*
Field Conductivity (umhos/cm)	*	*	*	8000.0	*	*	*
Lab Conductivity (umhos/cm)	*	*	*	*	*	*	*
Total Dissolved Solids(mg/L)	*	*	*	6140.0	2560.0	2620.0	*
VOLATILE ORGANICS DETECTED (ug/L)							
Benzene	*	*	*	< .50	< .50	< .50	*
Ethylbenzene	*	*	*	< .50	< .50	< .50	*
Toluene	*	*	*	1.10	< .50	< .50	*
m-Xylene	*	*	*	*	*	*	*
o,p-Xylene	*	*	*	*	*	*	*
Total Xylene	*	*	*	3.20	< 1.00	< 1.00	*
1,2 Dichloroethane	*	*	*	< 1.00	3.20	3.40	*
TOTAL ORGANIC LEAD (mg/L)							
Total Organic Lead	*	*	*	*	*	*	*

<: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)

## MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION	MW-14	MW-14
DATE SAMPLED	5- 6-90	9-13-90

## INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	*	*
Magnesium (Mg)	*	*
Sodium (Na)	*	*
Potassium (K)	*	*
Iron (Fe)	*	*
Manganese (Mn)	*	*
Ammonia (as N)	*	*
Chloride (Cl)	202.0	174.0
Sulfate (SO <sub>4</sub> )	2120.	2080.
Fluoride (F)	*	*
Nitrate and Nitrite (as N)	*	*
Total Alkalinity	*	*
Bicarbonate Alkalinity	*	*
Carbonate Alkalinity	*	*
Bicarbonate (HCO <sub>3</sub> )	*	*
Carbonate (CO <sub>3</sub> )	*	*

## FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*	*
Field pH	*	*
Lab pH (units)	*	*
Field Conductivity (umhos/cm)	*	*
Lab Conductivity (umhos/cm)	*	*
Total Dissolved Solids(mg/L)	3980.0	3920.0

## VOLATILE ORGANICS DETECTED (ug/L)

Benzene	< .50	< .50
Ethylbenzene	< .50	< .50
Toluene	< .50	< .50
m-Xylene	*	*
o,p-Xylene	*	*
Total Xylene	< 1.00	< 1.00
1,2 Dichloroethane	< 1.00	< 1.00

## TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*	*
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&lt;: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)

## MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION DATE SAMPLED	MW-15 11-27-87	MW-15 2-24-88	MW-15 10-12-88	MW-15 4-27-89	MW-15 8-10-89	MW-15 12-12-89	MW-15 1-16-90
INORGANIC PARAMETERS (mg/L except as noted)							
Calcium (Ca)	*	*	*	*	*	*	*
Magnesium (Mg)	*	*	*	*	*	*	*
Sodium (Na)	*	*	*	*	*	*	*
Potassium (K)	*	*	*	*	*	*	*
Iron (Fe)	*	*	*	*	*	*	*
Manganese (Mn)	*	*	*	*	*	*	*
Ammonia (as N)	*	*	*	*	*	*	*
Chloride (Cl)	*	*	*	178.0	139.0	204.0	*
Sulfate (SO <sub>4</sub> )	*	*	*	1220.	1030.	1720.	*
Fluoride (F)	*	*	*	*	*	*	*
Nitrate and Nitrite (as N)	*	*	*	*	*	*	*
Total Alkalinity	*	*	*	*	*	*	*
Bicarbonate Alkalinity	*	*	*	*	*	*	*
Carbonate Alkalinity	*	*	*	*	*	*	*
Bicarbonate (HCO <sub>3</sub> )	*	*	*	*	*	*	*
Carbonate (CO <sub>3</sub> )	*	*	*	*	*	*	*
FIELD AND LABORATORY MEASUREMENTS							
Temperature (Degrees C)	*	*	*	14.2	*	*	*
Field pH	*	*	*	6.45	*	*	*
Lab pH (units)	*	*	*	*	*	*	*
Field Conductivity (umhos/cm)	*	*	*	3500.0	*	*	*
Lab Conductivity (umhos/cm)	*	*	*	*	*	*	*
Total Dissolved Solids(mg/l)	*	*	*	2360.0	1900.0	2940.0	*
VOLATILE ORGANICS DETECTED (ug/L)							
Benzene	*	*	*	< .50	< .50	< .50	*
Ethylbenzene	*	*	*	< .50	< .50	< .50	*
Toluene	*	*	*	< .50	< .50	< .50	*
m-Xylene	*	*	*	*	*	*	*
o,p-Xylene	*	*	*	*	*	*	*
Total Xylene	*	*	*	< 1.00	< 1.00	< 1.00	*
1,2 Dichloroethane	*	*	*	< 1.00	< 1.00	< 1.00	*
TOTAL ORGANIC LEAD (mg/L)							
Total Organic Lead	*	*	*	*	*	*	*

&lt;: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)

## MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION	MW-15	MW-15
DATE SAMPLED	5- 6-90	9-14-90

## INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	*	*
Magnesium (Mg)	*	*
Sodium (Na)	*	*
Potassium (K)	*	*
Iron (Fe)	*	*
Manganese (Mn)	*	*
Ammonia (as N)	*	*
Chloride (Cl)	347.0	163.0
Sulfate (SO <sub>4</sub> )	2750.	1380.
Fluoride (F)	*	*
Nitrate and Nitrite (as N)	*	*
Total Alkalinity	*	*
Bicarbonate Alkalinity	*	*
Carbonate Alkalinity	*	*
Bicarbonate (HCO <sub>3</sub> )	*	*
Carbonate (CO <sub>3</sub> )	*	*

## FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*	*
Field pH	*	*
Lab pH (units)	*	*
Field Conductivity (umhos/cm)	*	*
Lab Conductivity (umhos/cm)	*	*
Total Dissolved Solids(mg/l)	4320.0	2540.0

## VOLATILE ORGANICS DETECTED (ug/L)

Benzene	< .50	< .50
Ethylbenzene	< .50	< .50
Toluene	< .50	< .50
m-Xylene	*	*
o,p-Xylene	*	*
Total Xylene	< 1.00	< 1.00
1,2 Dichloroethane	< 1.00	< 1.00

## TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*	*
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&lt;: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)

## MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION MW-16  
 DATE SAMPLED 9-13-90

## INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	*
Magnesium (Mg)	*
Sodium (Na)	*
Potassium (K)	*
Iron (Fe)	*
Manganese (Mn)	*
Ammonia (as N)	*
Chloride (Cl)	27.6
Sulfate (SO <sub>4</sub> )	292.
Fluoride (F)	*
Nitrate and Nitrite (as N)	*
Total Alkalinity	*
Bicarbonate Alkalinity	*
Carbonate Alkalinity	*
Bicarbonate (HCO <sub>3</sub> )	*
Carbonate (CO <sub>3</sub> )	*

## FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*
Field pH	*
Lab pH (units)	*
Field Conductivity (umhos/cm)	*
Lab Conductivity (umhos/cm)	*
Total Dissolved Solids(mg/L)	867.0

## VOLATILE ORGANICS DETECTED (ug/L)

Benzene	<	.50
Ethylbenzene	<	.50
Toluene	<	.50
m-Xylene		*
o,p-Xylene		*
Total Xylene	<	1.00
1,2 Dichloroethane	<	1.00

## TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*
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&lt;: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)  
MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION MW-17  
DATE SAMPLED 9-14-90

INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	*
Magnesium (Mg)	*
Sodium (Na)	*
Potassium (K)	*
Iron (Fe)	*
Manganese (Mn)	*
Ammonia (as N)	*
Chloride (Cl)	401.0
Sulfate (SO <sub>4</sub> )	27.3
Fluoride (F)	*
Nitrate and Nitrite (as N)	*
Total Alkalinity	*
Bicarbonate Alkalinity	*
Carbonate Alkalinity	*
Bicarbonate (HCO <sub>3</sub> )	*
Carbonate (CO <sub>3</sub> )	*

FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*
Field pH	*
Lab pH (units)	*
Field Conductivity (umhos/cm)	*
Lab Conductivity (umhos/cm)	*
Total Dissolved Solids(mg/L)	2160.0

VOLATILE ORGANICS DETECTED (ug/L)

Benzene	11000.00
Ethylbenzene	1600.00
Toluene	15000.00
m-Xylene	*
o,p-Xylene	*
Total Xylene	13000.00
1,2 Dichloroethane	360.00

TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*
--------------------	---

<: Parameter value is less than given detection limits

\*: Parameter was not analyzed.



TABLE F-2 (Continued)  
MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION MW-18  
DATE SAMPLED 9-14-90

INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	*
Magnesium (Mg)	*
Sodium (Na)	*
Potassium (K)	*
Iron (Fe)	*
Manganese (Mn)	*
Ammonia (as N)	*
Chloride (Cl)	43.8
Sulfate (SO4)	67.
Fluoride (F)	*
Nitrate and Nitrite (as N)	*
Total Alkalinity	*
Bicarbonate Alkalinity	*
Carbonate Alkalinity	*
Bicarbonate (HCO3)	*
Carbonate (CO3)	*

FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*
Field pH	*
Lab pH (units)	*
Field Conductivity (umhos/cm)	*
Lab Conductivity (umhos/cm)	*
Total Dissolved Solids(mg/L)	682.0

VOLATILE ORGANICS DETECTED (ug/L)

Benzene	17.00
Ethylbenzene	84.00
Toluene	< 12.00
m-Xylene	*
o,p-Xylene	*
Total Xylene	880.00
1,2 Dichloroethane	< 1.00

TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*
--------------------	---

<: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)  
MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION MW-19  
DATE SAMPLED 9-13-90

INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	*
Magnesium (Mg)	*
Sodium (Na)	*
Potassium (K)	*
Iron (Fe)	*
Manganese (Mn)	*
Ammonia (as N)	*
Chloride (Cl)	620.0
Sulfate (SO <sub>4</sub> )	292.
Fluoride (F)	*
Nitrate and Nitrite (as N)	*
Total Alkalinity	*
Bicarbonate Alkalinity	*
Carbonate Alkalinity	*
Bicarbonate (HCO <sub>3</sub> )	*
Carbonate (CO <sub>3</sub> )	*

FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*
Field pH	*
Lab pH (units)	*
Field Conductivity (umhos/cm)	*
Lab Conductivity (umhos/cm)	*
Total Dissolved Solids(mg/l)	2210.0

VOLATILE ORGANICS DETECTED (ug/L)

Benzene	<	.50
Ethylbenzene		1.10
Toluene	<	.50
m-Xylene		*
o,p-Xylene		*
Total Xylene		1.90
1,2 Dichloroethane		45.00

TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*
--------------------	---

<: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)  
MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION MW-20  
DATE SAMPLED 9-14-90

INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	< 1.0
Magnesium (Mg)	*
Sodium (Na)	*
Potassium (K)	*
Iron (Fe)	*
Manganese (Mn)	*
Ammonia (as N)	*
Chloride (Cl)	45.9
Sulfate (SO4)	650.0
Fluoride (F)	*
Nitrate and Nitrite (as N)	*
Total Alkalinity	*
Bicarbonate Alkalinity	*
Carbonate Alkalinity	*
Bicarbonate (HCO3)	*
Carbonate (CO3)	*

FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*
Field pH	*
Lab pH (units)	*
Field Conductivity (umhos/cm)	*
Lab Conductivity (umhos/cm)	*
Total Dissolved Solids(mg/l)	13000.0

VOLATILE ORGANICS DETECTED (ug/L)

Benzene	< .50
Ethylbenzene	< .50
Toluene	< .50
m-Xylene	*
o,p-Xylene	*
Total Xylene	< 1.00
1,2 Dichloroethane	< 1.00

TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*
--------------------	---

<: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)

## MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION MW-21  
 DATE SAMPLED 9-14-90

## INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	*
Magnesium (Mg)	*
Sodium (Na)	*
Potassium (K)	*
Iron (Fe)	*
Manganese (Mn)	*
Ammonia (as N)	*
Chloride (Cl)	78.4
Sulfate (SO <sub>4</sub> )	386.0
Fluoride (F)	*
Nitrate and Nitrite (as N)	*
Total Alkalinity	*
Bicarbonate Alkalinity	*
Carbonate Alkalinity	*
Bicarbonate (HCO <sub>3</sub> )	*
Carbonate (CO <sub>3</sub> )	*

## FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*
Field pH	*
Lab pH (units)	*
Field Conductivity (umhos/cm)	*
Lab Conductivity (umhos/cm)	*
Total Dissolved Solids(mg/L)	917.0

## VOLATILE ORGANICS DETECTED (ug/L)

Benzene	< .50
Ethylbenzene	1.10
Toluene	1.50
m-Xylene	*
o,p-Xylene	*
Total Xylene	5.00
1,2 Dichloroethane	67.00

## TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*
--------------------	---

&lt;: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

TABLE F-2 (Continued)

## MAVERIK-KIRTLAND WATER QUALITY

SAMPLE IDENTIFICATION MW-22  
DATE SAMPLED 9-14-90  
-----

## INORGANIC PARAMETERS (mg/L except as noted)

Calcium (Ca)	*
Magnesium (Mg)	*
Sodium (Na)	*
Potassium (K)	*
Iron (Fe)	*
Manganese (Mn)	*
Ammonia (as N)	*
Chloride (Cl)	216.0
Sulfate (SO <sub>4</sub> )	18.
Fluoride (F)	*
Nitrate and Nitrite (as N)	*
Total Alkalinity	*
Bicarbonate Alkalinity	*
Carbonate Alkalinity	*
Bicarbonate (HCO <sub>3</sub> )	*
Carbonate (CO <sub>3</sub> )	*

## FIELD AND LABORATORY MEASUREMENTS

Temperature (Degrees C)	*
Field pH	*
Lab pH (units)	*
Field Conductivity (umhos/cm)	*
Lab Conductivity (umhos/cm)	*
Total Dissolved Solids(mg/L)	1300.0

## VOLATILE ORGANICS DETECTED (ug/L)

Benzene	21000.00
Ethylbenzene	1100.00
Toluene	20000.00
m-Xylene	*
o,p-Xylene	*
Total Xylene	8300.00
1,2 Dichloroethane	7200.00

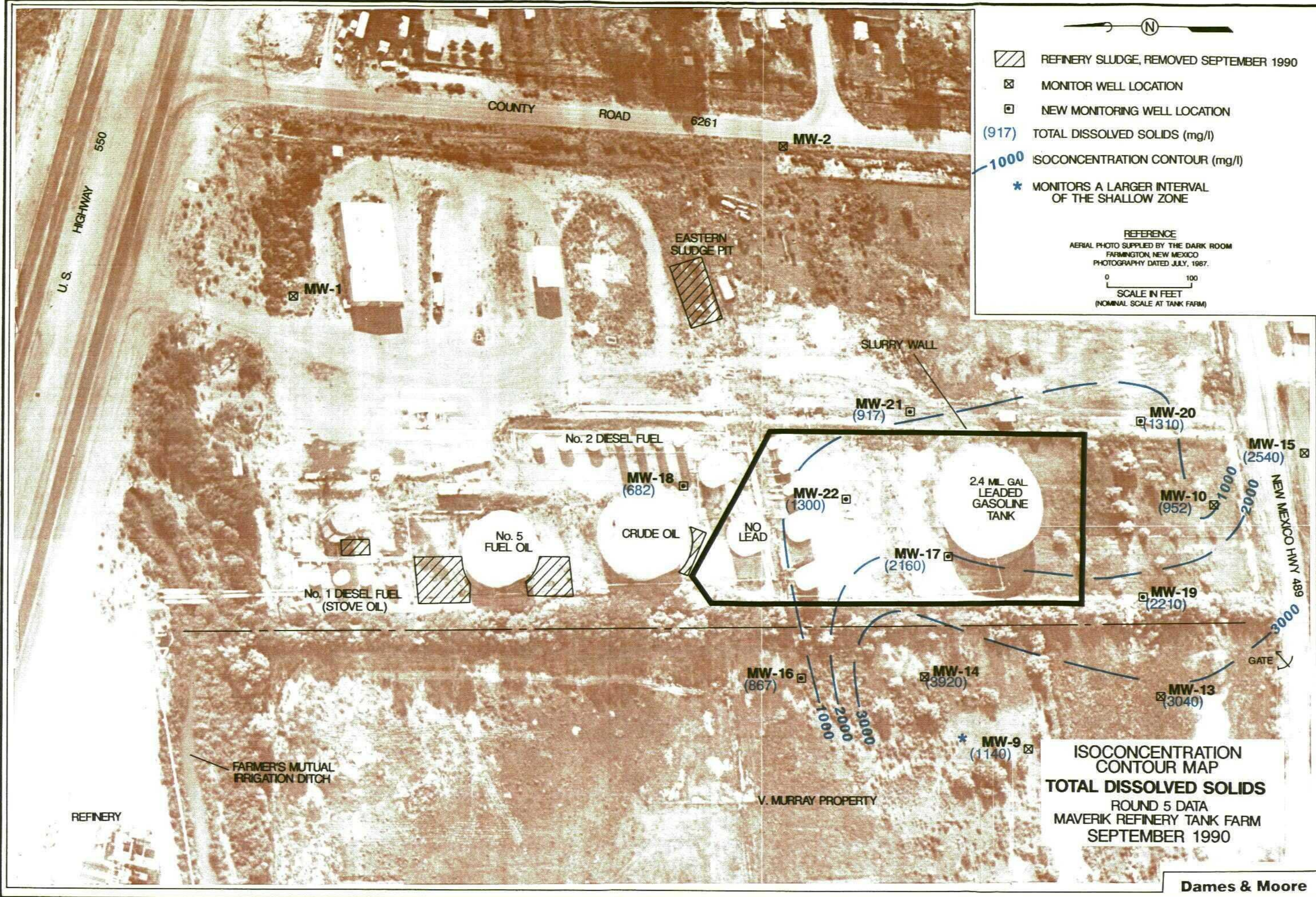
## TOTAL ORGANIC LEAD (mg/L)

Total Organic Lead	*
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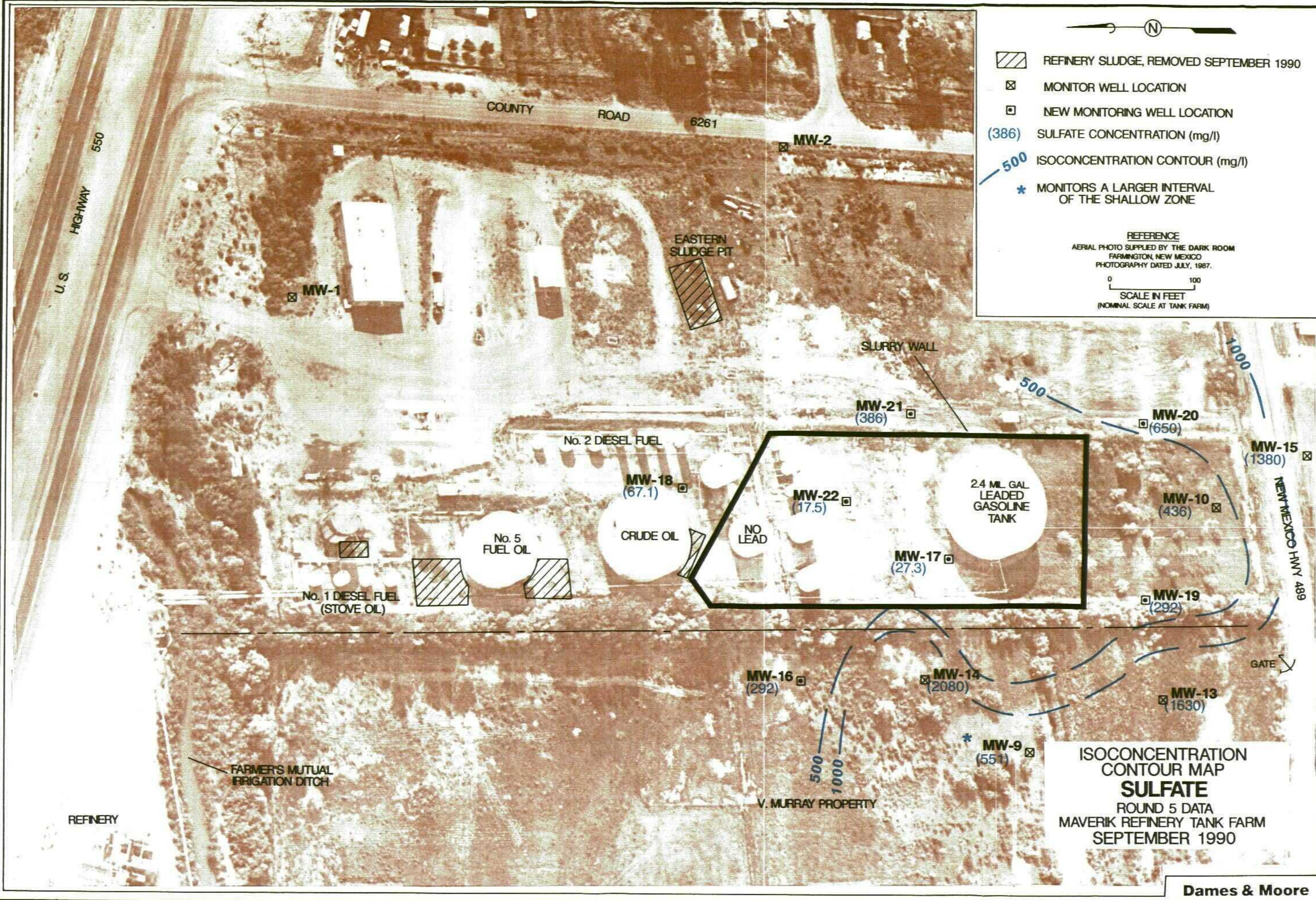
<: Parameter value is less than given detection limits

\*: Parameter was not analyzed.

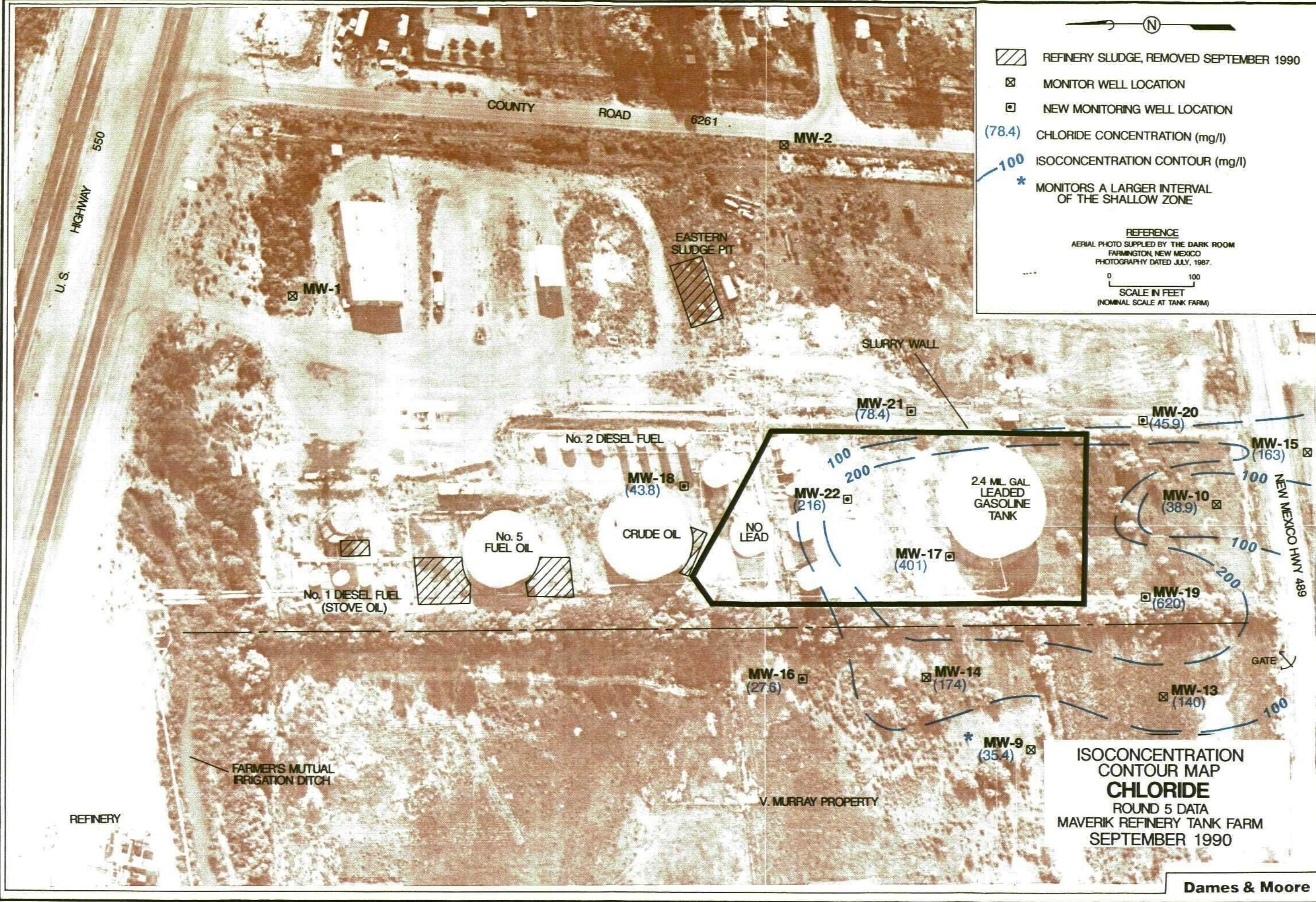




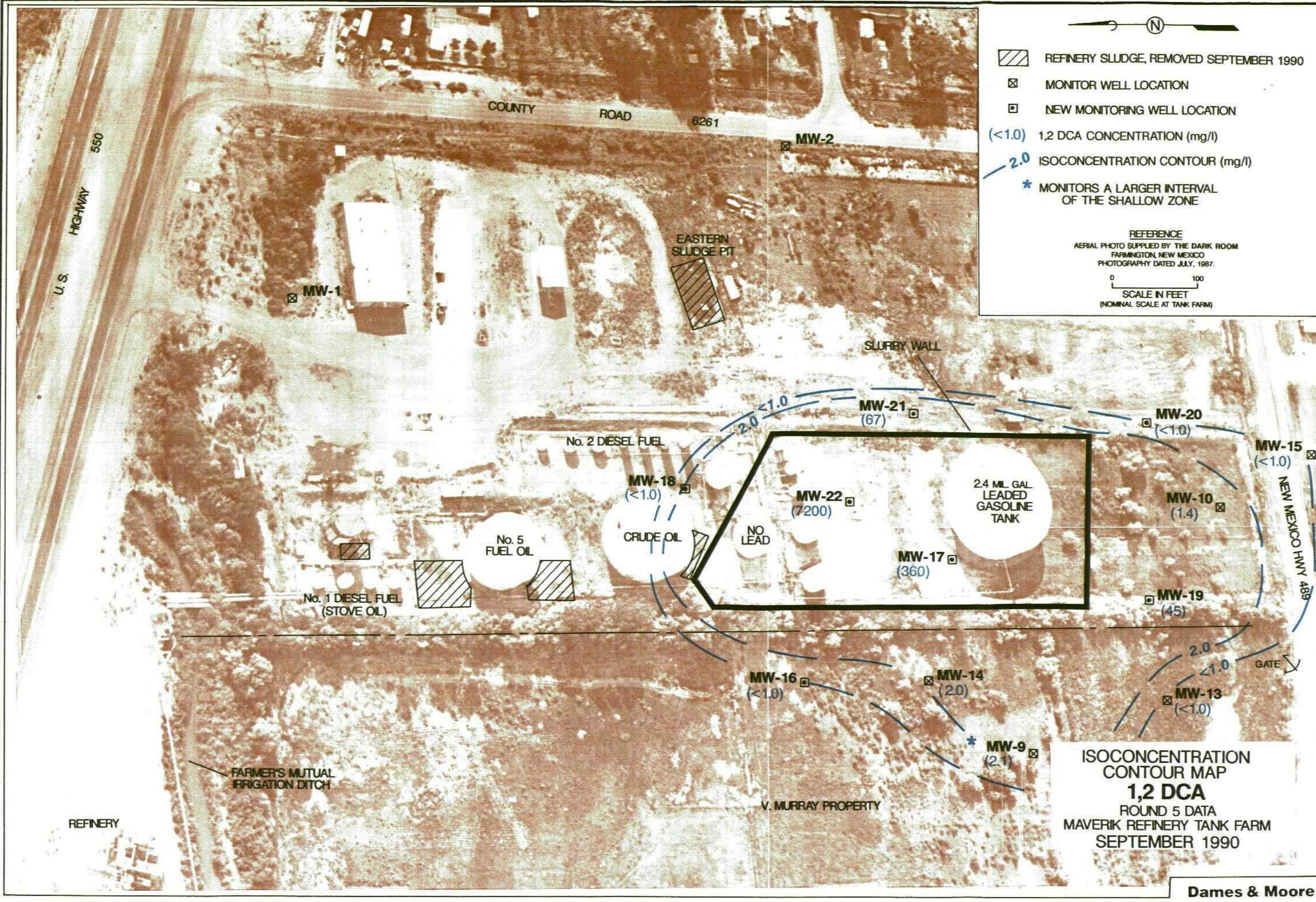




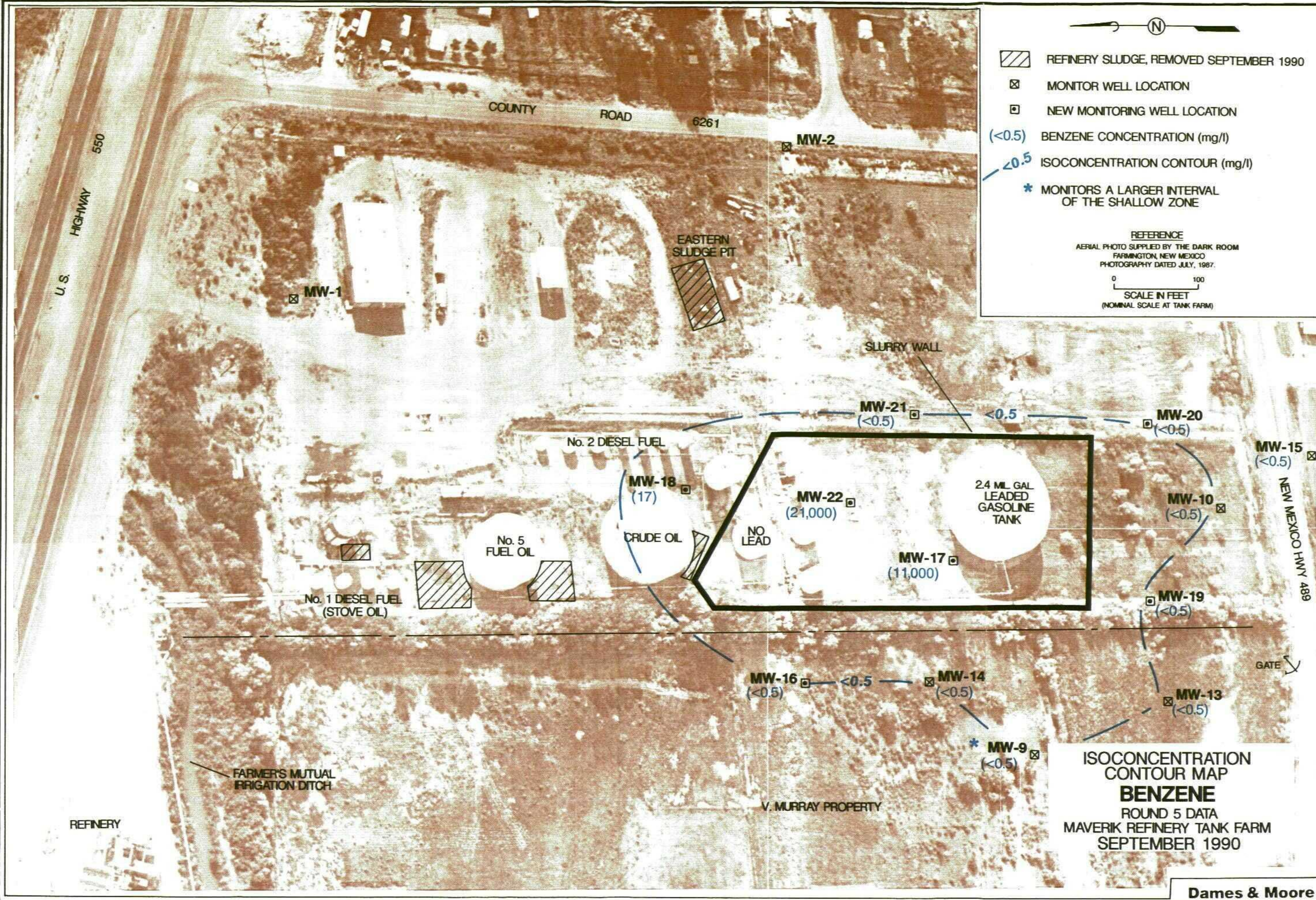




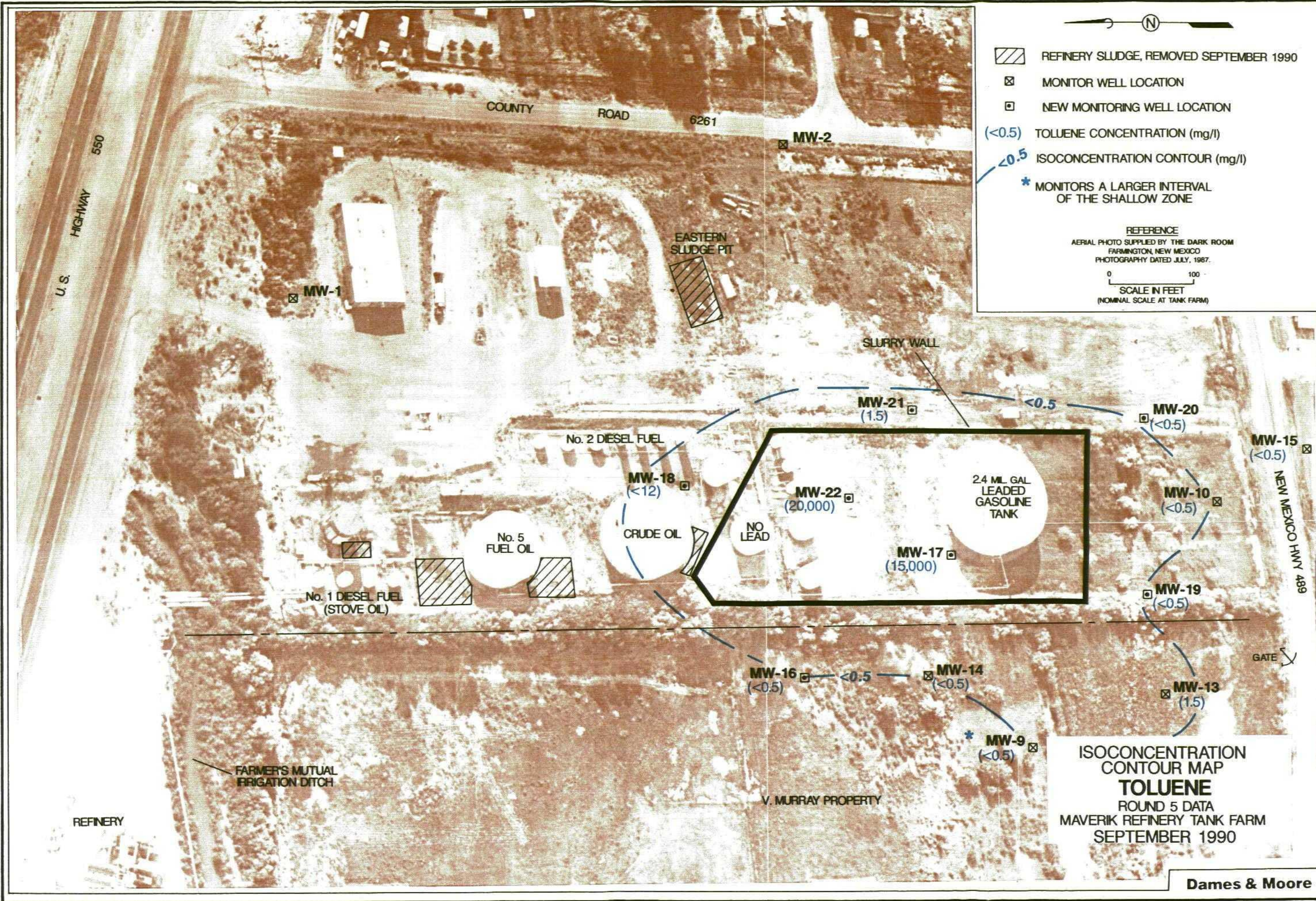




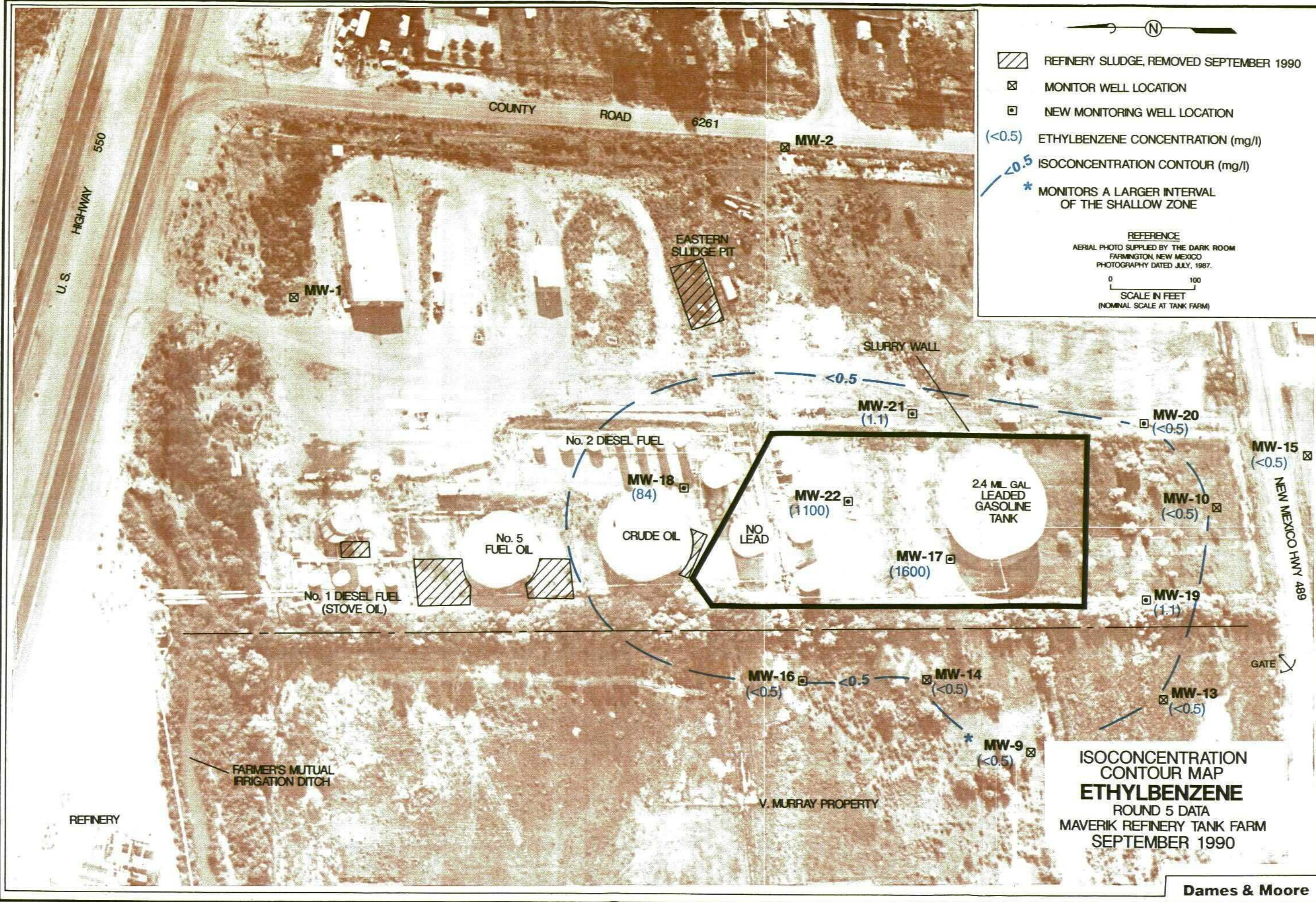




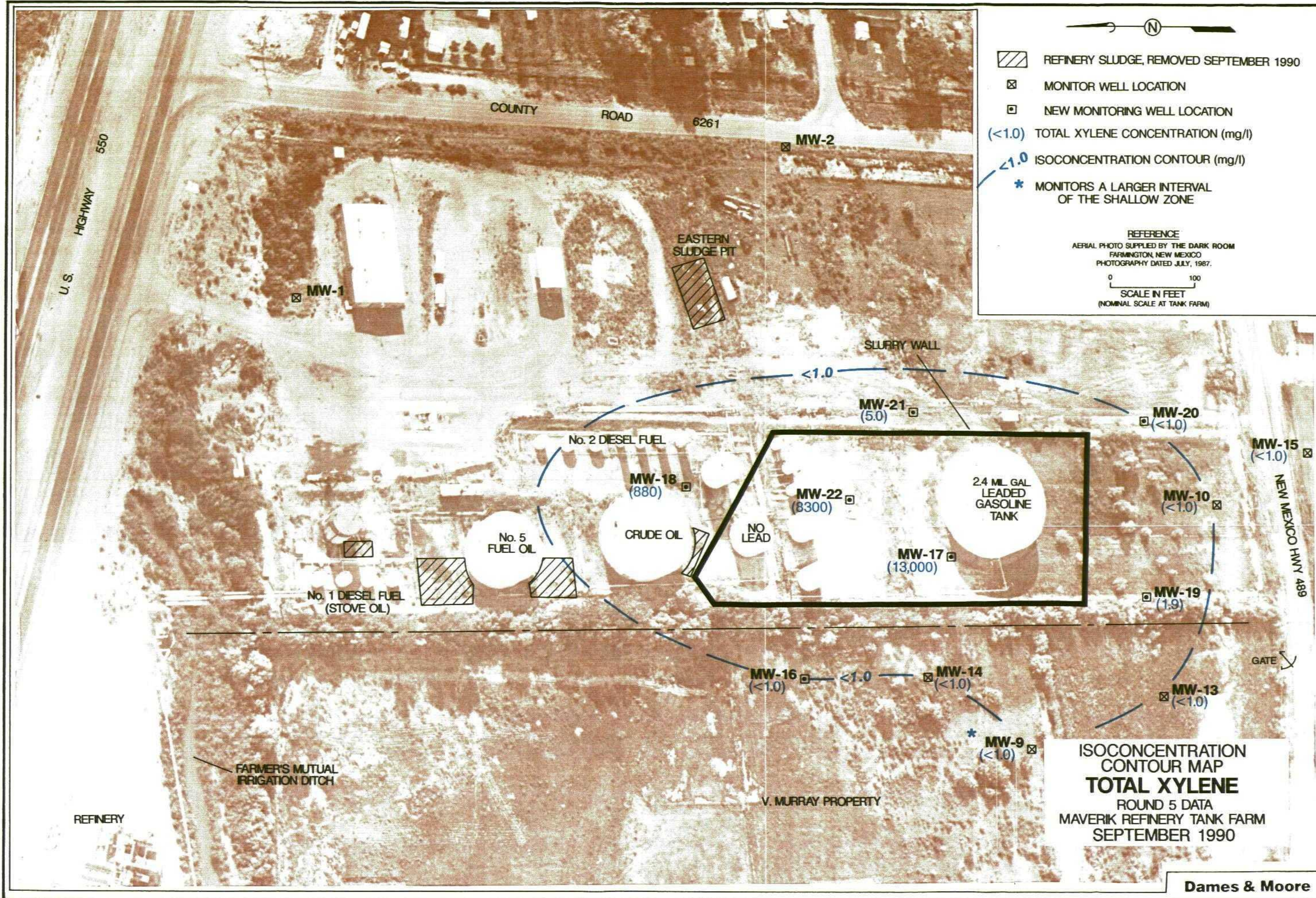


















October 22, 1990

Peter F. Olsen, Ph.D.  
Dames and Moore  
Suite 300  
127 South 500 East  
Salt Lake City, UT 84102-1959

Dear Pete:

Enclosed is the report for 12 aqueous samples received at Enseco-Rocky Mountain Analytical Laboratory on September 15, 1990.

Included with the report is a quality control summary.

Please call if you have any questions.

Sincerely,

*Debbie Anzio (for)*  
Randall Thompson  
Program Administrator

Reviewed by:

*Sue Dalla*  
Sue Dalla  
Manager  
Program Administration

RT/SD/heg  
Enclosures

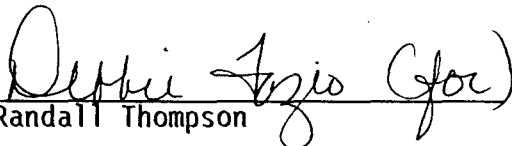
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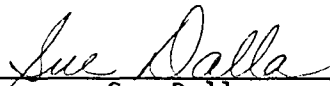
ANALYTICAL RESULTS  
FOR  
DAMES AND MOORE  
ENSECO-RMAL NO. 011346



OCTOBER 22, 1990

Reviewed by:

  
Randall Thompson

  
Sue Dalla



## Introduction

This report presents the analytical results as well as supporting information to aid in the evaluation and interpretation of the data and is arranged in the following order:

- o Sample Description Information
- o Analytical Test Requests
- o Analytical Results
- o Quality Control Report

Each sample was analyzed to achieve the lowest possible reporting limits within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For this project samples 011346-0005, -0009, -0010, and -0011 were diluted during their Method 8010 analyses and samples 011346-0009, -0010 and -0012 were diluted during their Method 8020 analyses due to concentrations of target compounds. The reporting limits have been adjusted relative to these dilutions.

The bottle for the chloride, sulfate and TDS analysis of sample 011346-0006 (MW-13) was received two days after the receipt of the other samples in this project. This late arrival was added to RMAL project 011346.

## Sample Description Information

The Sample Description Information lists all of the samples received in this project together with the internal laboratory identification number assigned for each sample. Each project received at Enseco - RMAL is assigned a unique six digit number. Samples within the project are numbered sequentially. The laboratory identification number is a combination of the six digit project code and the sample sequence number.

Also given in the Sample Description Information is the Sample Type (matrix), Date of Sampling (if known) and Date of Receipt at the laboratory.

SAMPLE DESCRIPTION INFORMATION  
for  
Dames and Moore

Lab ID	Client ID	Matrix	Sampled		Received
			Date	Time	
011346-0001-SA	MW-16	AQUEOUS	13 SEP 90	15:00	15 SEP 90
011346-0002-SA	MW-14	AQUEOUS	13 SEP 90	15:30	15 SEP 90
011346-0003-SA	MW-9	AQUEOUS	13 SEP 90	16:00	15 SEP 90
011346-0004-SA	MW-10	AQUEOUS	13 SEP 90	17:30	15 SEP 90
011346-0005-SA	MW-19	AQUEOUS	13 SEP 90	18:00	15 SEP 90
011346-0006-SA	MW-13	AQUEOUS	13 SEP 90	08:30	15 SEP 90
011346-0007-SA	MW-15	AQUEOUS	14 SEP 90	09:30	15 SEP 90
011346-0008-SA	MW-20	AQUEOUS	14 SEP 90	11:00	15 SEP 90
011346-0009-SA	MW-22	AQUEOUS	14 SEP 90	11:30	15 SEP 90
011346-0010-SA	MW-17	AQUEOUS	14 SEP 90	12:30	15 SEP 90
011346-0011-SA	MW-21	AQUEOUS	14 SEP 90	13:00	15 SEP 90
011346-0012-SA	MW-18	AQUEOUS	14 SEP 90	14:00	15 SEP 90

## Analytical Test Requests

The Analytical Test Requests lists the analyses that were performed on each sample. The Custom Test column indicates where tests have been modified to conform to the specific requirements of this project.

ANALYTICAL TEST REQUESTS  
for  
Dames and Moore

Lab ID: 011346	Group Code	Analysis Description	Custom Test?
0001 - 0012	A	Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)	N
		Halogenated Volatile Organics	Y
		Sulfate, Ion Chromatography	N
		Total Dissolved Solids (TDS)	N
		Chloride, Ion Chromatography	N

## Analytical Results

The analytical results for this project are presented in the following data tables. Each data table includes sample identification information, and when available and appropriate, dates sampled, received, authorized, prepared and analyzed. The authorization data is the date when the project was defined by the client such that laboratory work could begin.

Data sheets contain a listing of the parameters measured in each test, the analytical results and the Enseco reporting limit. Reporting limits are adjusted to reflect dilution of the sample, when appropriate. Solid and waste samples are reported on an "as received" basis, i.e. no correction is made for moisture content.

Enseco-RMAL is no longer routinely blank-correcting analytical data. Uncorrected analytical results are reported, along with associated blank results, for all organic and metals analyses. Analytical results and blank results are reported for conventional inorganic parameters as specified in the method. This policy is described in detail in the Enseco Incorporated Quality Assurance Program Plan for Environmental Chemical Monitoring, Revision 3.3, May, 1989.

The results from the Standard Enseco QA/QC Program, which generates data which are independent of matrix effects, is provided subsequently.

## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-9  
Lab ID: 011346-0003-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	35.4	mg/L	3.0	300.0	NA	26 SEP 90
Sulfate	551	mg/L	10.0	300.0	NA	26 SEP 90
Total Dissolved Solids	1140	mg/L	10.0	160.1	NA	18 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Eileen Burke

Approved By: Will Pratt

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

Method 8020

Client Name: Dames and Moore  
Client ID: MW-9  
Lab ID: 011346-0003-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 17 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry

## Halogenated Volatile Organics

## Method 8010

Client Name: Dames and Moore  
Client ID: MW-9  
Lab ID: 011346-0003-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 20 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	2.1	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry



## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-10  
Lab ID: 011346-0004-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	38.9	mg/L	3.0	300.0	NA	26 SEP 90
Sulfate	436	mg/L	5.0	300.0	NA	26 SEP 90
Total Dissolved Solids	952	mg/L	10.0	160.1	NA	18 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Eileen Burke

Approved By: Will Pratt

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

Method 8020

Client Name: Dames and Moore  
Client ID: MW-10  
Lab ID: 011346-0004-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 17 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry

## Halogenated Volatile Organics

Method 8010

Client Name: Dames and Moore  
Client ID: MW-10  
Lab ID: 011346-0004-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 20 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	1.4	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry

## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-13  
Lab ID: 011346-0006-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	140	mg/L	3.0	300.0	NA	26 SEP 90
Sulfate	1630	mg/L	25.0	300.0	NA	26 SEP 90
Total Dissolved Solids	3040	mg/L	50.0	160.1	NA	18 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Tammy Bailey

Approved By: Will Pratt

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

Method 8020

Client Name: Dames and Moore  
Client ID: MW-13  
Lab ID: 011346-0006-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 17 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	ND	ug/L	0.50
Toluene	1.5	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry

## Halogenated Volatile Organics

Method 8010

Client Name: Dames and Moore  
Client ID: MW-13  
Lab ID: 011346-0006-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 20 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	ND	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry

## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-14  
Lab ID: 011346-0002-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	174	mg/L	3.0	300.0	NA	26 SEP 90
Sulfate	2080	mg/L	50.0	300.0	NA	26 SEP 90
Total Dissolved Solids	3920	mg/L	50.0	160.1	NA	20 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Eileen Burke

Approved By: Will Pratt

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

Method 8020

Client Name: Dames and Moore  
Client ID: MW-14  
Lab ID: 011346-0002-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 17 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry



## Halogenated Volatile Organics

Method 8010

Client Name: Dames and Moore  
Client ID: MW-14  
Lab ID: 011346-0002-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 20 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	2.0	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry

## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-15  
Lab ID: 011346-0007-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	163	mg/L	3.0	300.0	NA	26 SEP 90
Sulfate	1380	mg/L	25.0	300.0	NA	26 SEP 90
Total Dissolved Solids	2540	mg/L	50.0	160.1	NA	18 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Eileen Burke

Approved By: Will Pratt

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

Method 8020

Client Name: Dames and Moore  
Client ID: MW-15  
Lab ID: 011346-0007-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 17 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry

## Halogenated Volatile Organics

Method 8010

Client Name: Dames and Moore

Client ID: MW-15

Lab ID: 011346-0007-SA

Matrix: AQUEOUS

Authorized: 15 SEP 90

Sampled: 14 SEP 90

Prepared: NA

Received: 15 SEP 90

Analyzed: 20 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	ND	ug/L	1.0

ND = Not detected

NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry

## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-16  
Lab ID: 011346-0001-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	27.6	mg/L	3.0	300.0	NA	26 SEP 90
Sulfate	292	mg/L	5.0	300.0	NA	26 SEP 90
Total Dissolved Solids	867	mg/L	10.0	160.1	NA	18 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Eileen Burke

Approved By: Will Pratt

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

Method 8020

Client Name: Dames and Moore

Client ID: MW-16

Lab ID: 011346-0001-SA

Matrix: AQUEOUS

Authorized: 15 SEP 90

Sampled: 13 SEP 90

Prepared: NA

Received: 15 SEP 90

Analyzed: 17 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry

## Halogenated Volatile Organics

## Method 8010

Client Name: Dames and Moore  
Client ID: MW-16  
Lab ID: 011346-0001-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 20 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	ND	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry

## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-17  
Lab ID: 011346-0010-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	401	mg/L	15.0	300.0	NA	26 SEP 90
Sulfate	27.3	mg/L	5.0	300.0	NA	26 SEP 90
Total Dissolved Solids	2160	mg/L	50.0	160.1	NA	18 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Eileen Burke

Approved By: Will Pratt



## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

Method 8020

Client Name: Dames and Moore  
Client ID: MW-17  
Lab ID: 011346-0010-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 18 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	11000	ug/L	250
Toluene	15000	ug/L	250
Ethylbenzene	1600	ug/L	250
Xylenes (total)	13000	ug/L	500

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry

## Halogenated Volatile Organics

Method 8010

Client Name: Dames and Moore  
Client ID: MW-17  
Lab ID: 011346-0010-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 21 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	360	ug/L	25

ND = Not detected  
NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry

## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-18  
Lab ID: 011346-0012-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	43.8	mg/L	3.0	300.0	NA	26 SEP 90
Sulfate	67.1	mg/L	5.0	300.0	NA	26 SEP 90
Total Dissolved Solids	682	mg/L	10.0	160.1	NA	18 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Eileen Burke

Approved By: Will Pratt

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

## Method 8020

Client Name: Dames and Moore

Client ID: MW-18

Lab ID: 011346-0012-SA

Matrix: AQUEOUS

Authorized: 15 SEP 90

Sampled: 14 SEP 90

Prepared: NA

Received: 15 SEP 90

Analyzed: 17 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	17	ug/L	12
Toluene	ND	ug/L	12
Ethylbenzene	84	ug/L	12
Xylenes (total)	880	ug/L	25

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry

## Halogenated Volatile Organics

## Method 8010

Client Name: Dames and Moore  
Client ID: MW-18  
Lab ID: 011346-0012-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 24 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	ND	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry

## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-19  
Lab ID: 011346-0005-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	620	mg/L	15.0	300.0	NA	26 SEP 90
Sulfate	292	mg/L	5.0	300.0	NA	26 SEP 90
Total Dissolved Solids	2210	mg/L	50.0	160.1	NA	18 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Eileen Burke

Approved By: Will Pratt

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

Method 8020

Client Name: Dames and Moore  
Client ID: MW-19  
Lab ID: 011346-0005-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 17 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	1.1	ug/L	0.50
Xylenes (total)	1.9	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry

## Halogenated Volatile Organics

Method 8010

Client Name: Dames and Moore  
Client ID: MW-19  
Lab ID: 011346-0005-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 13 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 20 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	45	ug/L	2.5

ND = Not detected  
NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry



## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-20  
Lab ID: 011346-0008-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	45.9	mg/L	3.0	300.0	NA	26 SEP 90
Sulfate	650	mg/L	10.0	300.0	NA	26 SEP 90
Total Dissolved Solids	1310	mg/L	10.0	160.1	NA	18 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Eileen Burke

Approved By: Will Pratt

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

Method 8020

Client Name: Dames and Moore  
Client ID: MW-20  
Lab ID: 011346-0008-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 17 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry

## Halogenated Volatile Organics

## Method 8010

Client Name: Dames and Moore  
Client ID: MW-20  
Lab ID: 011346-0008-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 20 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	ND	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry

## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-21  
Lab ID: 011346-0011-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	78.4	mg/L	3.0	300.0	NA	26 SEP 90
Sulfate	386	mg/L	5.0	300.0	NA	26 SEP 90
Total Dissolved Solids	917	mg/L	10.0	160.1	NA	18 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Eileen Burke

Approved By: Will Pratt

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

Method 8020

Client Name: Dames and Moore  
Client ID: MW-21  
Lab ID: 011346-0011-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 19 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	ND	ug/L	0.50
Toluene	1.5	ug/L	0.50
Ethylbenzene	1.1	ug/L	0.50
Xylenes (total)	5.0	ug/L	1.0

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry

## Halogenated Volatile Organics

## Method 8010

Client Name: Dames and Moore  
Client ID: MW-21  
Lab ID: 011346-0011-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 24 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	67	ug/L	2.5

ND = Not detected  
NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry

## General Inorganics

Client Name: Dames and Moore  
Client ID: MW-22  
Lab ID: 011346-0009-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: See Below

Received: 15 SEP 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Chloride	216	mg/L	3.0	300.0	NA	26 SEP 90
Sulfate	17.5	mg/L	5.0	300.0	NA	26 SEP 90
Total Dissolved Solids	1300	mg/L	10.0	160.1	NA	18 SEP 90

ND = Not detected  
NA = Not applicable

Reported By: Eileen Burke

Approved By: Will Pratt

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTEX)

Method 8020

Client Name: Dames and Moore  
Client ID: MW-22  
Lab ID: 011346-0009-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 18 SEP 90

Parameter	Result	Units	Reporting Limit
Benzene	21000	ug/L	250
Toluene	20000	ug/L	250
Ethylbenzene	1100	ug/L	250
Xylenes (total)	8300	ug/L	500

ND = Not detected  
NA = Not applicable

Reported By: Leewaphath Xaiyasang

Approved By: Jeff Lowry



## Halogenated Volatile Organics

## Method 8010

Client Name: Dames and Moore  
Client ID: MW-22  
Lab ID: 011346-0009-SA  
Matrix: AQUEOUS  
Authorized: 15 SEP 90

Sampled: 14 SEP 90  
Prepared: NA

Received: 15 SEP 90  
Analyzed: 21 SEP 90

Parameter	Result	Units	Reporting Limit
1,2-Dichloroethane	7200	ug/L	1000

ND = Not detected  
NA = Not applicable

Reported By: William Sullivan

Approved By: Jeff Lowry

## Quality Control Results

The Enseco laboratories operate under a vigorous QA/QC program designed to ensure the generation of scientifically valid, legally defensible data by monitoring every aspect of laboratory operations. Routine QA/QC procedures include the use of approved methodologies, independent verification of analytical standards, use of duplicate Laboratory Control Samples to assess the precision and accuracy of the methodology on a routine basis, and a rigorous system of data review.

In addition, the Enseco laboratories maintain a comprehensive set of certifications from both state and federal governmental agencies which require frequent analyses of blind audit samples. Enseco - Rocky Mountain Analytical Laboratory is certified by the EPA under the EPA/CLP program for both Organic and Inorganic analyses, under the USATHAMA (U.S. Army) program, by the Army Corps of Engineers, and the states of Colorado, New Jersey, New York, Utah, and Florida, among others.

The standard laboratory QC package is designed to:

- 1) establish a strong, cost-effective QC program that ensures the generation of scientifically valid, legally defensible data
- 2) assess the laboratory's performance of the analytical method using control limits generated with a well-defined matrix
- 3) establish clear-cut guidelines for acceptability of analytical data so that QC decisions can be made immediately at the bench, and
- 4) provide a standard set of reportables which assures the client of the quality of his data.

The Enseco QC program is based upon monitoring the precision and accuracy of an analytical method by analyzing a set of Duplicate Control Samples (DCS) at frequent, well-defined intervals. Each DCS is a well-characterized matrix which is spiked with target compounds at 5-100 times the reporting limit, depending upon the methodology being monitored. The purpose of the DCS is not to duplicate the sample matrix, but rather to provide an interference-free, homogeneous matrix from which to gather data to establish control limits. These limits are used to determine whether data generated by the laboratory on any given day is in control.

Control limits for accuracy (percent recovery) are based on the average, historical percent recovery  $\pm$  3 standard deviation units. Control limits for precision (relative percent difference) range from 0 (identical duplicate DCS results) to the average, historical relative percent difference + 3 standard deviation units. These control limits are fairly narrow based on the consistency of the matrix being monitored and are updated on a quarterly basis.

For each batch of samples analyzed, an additional control measure is taken in the form of a Single Control Sample (SCS). The SCS consists of a control matrix that is spiked with either representative target compounds or surrogate compounds appropriate to the method being used. An SCS is prepared for each sample lot for which the DCS pair are not analyzed.

Accuracy for DCS and SCS is measured by Percent Recovery.

$$\% \text{ Recovery} = \frac{\text{Measured Concentration}}{\text{Actual Concentration}} \times 100$$

Precision for DCS is measured by Relative Percent Difference (RPD).

$$\text{RPD} = \frac{|\text{Measured Concentration DCS1} - \text{Measured Concentration DCS2}|}{(\text{Measured Concentration DCS1} + \text{Measured Concentration DCS2})/2} \times 100$$

All samples analyzed concurrently by the same test are assigned the same QC lot number. Projects which contain numerous samples, analyzed over several days, may have multiple QC lot numbers associated with each test. The QC information which follows includes a listing of the QC lot numbers associated with each of the samples reported, DCS and SCS (where applicable) recoveries from the QC lots associated with the samples, and control limits for these lots. The QC data is reported by test code, in the order that the tests are reported in the analytical results section of this report.

Each sample was analyzed to achieve the lowest possible reporting limits within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For this project samples 011346-0005, -0009, -0010 and -0011 were diluted during their Method 8010 analyses and samples 011346-0009, -0010 and -0012 were diluted during their Method 8020 analyses due to concentrations of target compounds. The reporting limits have been adjusted relative to these dilutions.

The bottle for the chloride, sulfate and TDS analysis of sample 011346-0006 (MW-13) was received two days after the receipt of the other samples in this project. This late arrival was added to RMAL project 011346.

# QC LOT ASSIGNMENT REPORT

## Wet Chemistry Analysis and Preparation

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
011346-0001-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0001-SA	AQUEOUS	TDS-A	18 SEP 90-A	18 SEP 90-A
011346-0001-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-
011346-0002-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0002-SA	AQUEOUS	TDS-A	20 SEP 90-A	20 SEP 90-A
011346-0002-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-
011346-0003-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0003-SA	AQUEOUS	TDS-A	18 SEP 90-A	18 SEP 90-A
011346-0003-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-
011346-0004-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0004-SA	AQUEOUS	TDS-A	18 SEP 90-A	18 SEP 90-A
011346-0004-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-
011346-0005-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0005-SA	AQUEOUS	TDS-A	18 SEP 90-A	18 SEP 90-A
011346-0005-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-
011346-0006-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-
011346-0006-SA	AQUEOUS	TDS-A	18 SEP 90-A	18 SEP 90-A
011346-0006-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0007-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0007-SA	AQUEOUS	TDS-A	18 SEP 90-A	18 SEP 90-A
011346-0007-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-
011346-0008-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0008-SA	AQUEOUS	TDS-A	18 SEP 90-A	18 SEP 90-A
011346-0008-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-
011346-0009-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0009-SA	AQUEOUS	TDS-A	18 SEP 90-A	18 SEP 90-A
011346-0009-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-
011346-0010-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0010-SA	AQUEOUS	TDS-A	18 SEP 90-A	18 SEP 90-A
011346-0010-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-
011346-0011-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0011-SA	AQUEOUS	TDS-A	18 SEP 90-A	18 SEP 90-A
011346-0011-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-
011346-0012-SA	AQUEOUS	S04-IC-A	26 SEP 90-M	-
011346-0012-SA	AQUEOUS	TDS-A	18 SEP 90-A	18 SEP 90-A
011346-0012-SA	AQUEOUS	CL-IC-A	26 SEP 90-M	-

# DUPLICATE CONTROL SAMPLE REPORT Wet Chemistry Analysis and Preparation

Analyte	Spiked	Concentration		AVG	Accuracy		Precision	
		DCS1	Measured DCS2		DCS	Average(%) Limits	(RPD) DCS Limit	

Category: S04-IC-A  
 Matrix: AQUEOUS  
 QC Lot: 26 SEP 90-M  
 Concentration Units: mg/L

Sulfate	200	209	210	210	105	93-107	0.5	20
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Category: TDS-A  
 Matrix: AQUEOUS  
 QC Lot: 18 SEP 90-A  
 Concentration Units: mg/L

Total Dissolved Solids	834	784	780	782	94	90-110	0.5	10
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Category: CL-IC-A  
 Matrix: AQUEOUS  
 QC Lot: 26 SEP 90-M  
 Concentration Units: mg/L

Chloride	100	102	102	102	102	92-108	0.0	20
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Category: TDS-A  
 Matrix: AQUEOUS  
 QC Lot: 20 SEP 90-A  
 Concentration Units: mg/L

Total Dissolved Solids	834	787	787	787	94	90-110	0.0	10
------------------------	-----	-----	-----	-----	----	--------	-----	----

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT  
Wet Chemistry Analysis and Preparation

Analyte	Result	Units	Reporting Limit
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Test: TDS-BAL-A

Matrix: AQUEOUS

QC Lot: 18 SEP 90-A    QC Run: 18 SEP 90-A

Total Dissolved  
Solids

ND

mg/L

10.0

Test: TDS-BAL-A

Matrix: AQUEOUS

QC Lot: 20 SEP 90-A    QC Run: 20 SEP 90-A

Total Dissolved  
Solids

ND

mg/L

10.0



**QC LOT ASSIGNMENT REPORT**  
Volatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
011346-0001-SA	AQUEOUS	602-A	17 SEP 90-L	17 SEP 90-L
011346-0001-SA	AQUEOUS	601-A	19 SEP 90-F	19 SEP 90-F
011346-0002-SA	AQUEOUS	602-A	17 SEP 90-L	17 SEP 90-L
011346-0002-SA	AQUEOUS	601-A	19 SEP 90-F	19 SEP 90-F
011346-0003-SA	AQUEOUS	602-A	17 SEP 90-L	17 SEP 90-L
011346-0003-SA	AQUEOUS	601-A	19 SEP 90-F	19 SEP 90-F
011346-0004-SA	AQUEOUS	602-A	17 SEP 90-L	17 SEP 90-L
011346-0004-SA	AQUEOUS	601-A	19 SEP 90-F	19 SEP 90-F
011346-0005-SA	AQUEOUS	602-A	17 SEP 90-L	17 SEP 90-L
011346-0005-SA	AQUEOUS	601-A	19 SEP 90-F	19 SEP 90-F
011346-0006-SA	AQUEOUS	601-A	19 SEP 90-F	19 SEP 90-F
011346-0006-SA	AQUEOUS	602-A	17 SEP 90-L	17 SEP 90-L
011346-0007-SA	AQUEOUS	602-A	17 SEP 90-L	17 SEP 90-L
011346-0007-SA	AQUEOUS	601-A	19 SEP 90-F	19 SEP 90-F
011346-0008-SA	AQUEOUS	602-A	17 SEP 90-L	17 SEP 90-L
011346-0008-SA	AQUEOUS	601-A	19 SEP 90-F	19 SEP 90-F
011346-0009-SA	AQUEOUS	602-A	17 SEP 90-L	17 SEP 90-L
011346-0009-SA	AQUEOUS	601-A	19 SEP 90-F	19 SEP 90-F
011346-0010-SA	AQUEOUS	602-A	17 SEP 90-L	17 SEP 90-L
011346-0010-SA	AQUEOUS	601-A	19 SEP 90-F	19 SEP 90-F
011346-0011-SA	AQUEOUS	602-A	18 SEP 90-L	18 SEP 90-L
011346-0011-SA	AQUEOUS	601-A	23 SEP 90-F	23 SEP 90-F
011346-0012-SA	AQUEOUS	602-A	17 SEP 90-L	17 SEP 90-L
011346-0012-SA	AQUEOUS	601-A	23 SEP 90-F	23 SEP 90-F

**DUPLICATE CONTROL SAMPLE REPORT**  
 Volatile Organics by GC

Analyte	Spiked	Concentration		AVG	Accuracy		Precision	
		DCS1	Measured DCS2		Average (%)	Limits	(RPD)	DCS Limit
Category: 602-A								
Matrix: AQUEOUS								
QC Lot: 17 SEP 90-L								
Concentration Units: ug/L								
Benzene	5.0	5.08	4.97	5.02	101	80-120	2.2	15
Toluene	5.0	5.10	4.96	5.03	101	80-120	2.8	15
Ethylbenzene	5.0	5.24	5.11	5.18	104	80-120	2.5	15
Xylenes (total)	5.0	5.16	5.01	5.08	102	80-120	2.9	15
1,3-Dichlorobenzene	5.0	5.34	5.01	5.18	104	80-120	6.4	15

Category: 601-A  
 Matrix: AQUEOUS  
 QC Lot: 19 SEP 90-F  
 Concentration Units: ug/L

1,1-Dichloroethane	5.0	4.24	4.07	4.16	83	80-130	4.1	20
Chloroform	5.0	5.51	5.35	5.43	109	80-120	2.9	20
Bromodichloromethane	10	9.72	9.34	9.53	95	80-120	4.0	20
Trichloroethene	5.0	4.86	4.67	4.76	95	70-120	4.0	20
Chlorobenzene	5.0	4.44	4.28	4.36	87	80-120	3.7	20

Category: 602-A  
 Matrix: AQUEOUS  
 QC Lot: 18 SEP 90-L  
 Concentration Units: ug/L

Benzene	5.0	4.73	4.79	4.76	95	80-120	1.3	15
Toluene	5.0	4.83	4.86	4.84	97	80-120	0.6	15
Ethylbenzene	5.0	4.94	4.87	4.90	98	80-120	1.4	15
Xylenes (total)	5.0	4.86	4.80	4.83	97	80-120	1.2	15
1,3-Dichlorobenzene	5.0	4.94	4.91	4.92	99	80-120	0.6	15

Category: 601-A  
 Matrix: AQUEOUS  
 QC Lot: 23 SEP 90-F  
 Concentration Units: ug/L

1,1-Dichloroethane	5.0	4.81	5.28	5.04	101	80-130	9.3	20
Chloroform	5.0	5.43	5.60	5.52	110	80-120	3.1	20
Bromodichloromethane	5.0	8.58	9.65	9.12	182	80-120	12	20
Trichloroethene	5.0	5.64	5.70	5.67	113	70-120	1.1	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

DUPLICATE CONTROL SAMPLE REPORT  
 Volatile Organics by GC (cont.)

Analyte	Concentration Spiked	Concentration Measured		AVG	Accuracy Average(%)		Precision (RPD)	
		DCS1	DCS2		DCS	Limits	DCS	Limit
Category: 601-A Matrix: AQUEOUS QC Lot: 23 SEP 90-F Concentration Units: ug/L								
Chlorobenzene	5.0	3.84	4.22	4.03	81	80-120	9.4	20

Calculations are performed before rounding to avoid round-off errors in calculated results.

# SINGLE CONTROL SAMPLE REPORT

## Volatile Organics by GC

Analyte	Concentration		Accuracy(%)	
	Spiked	Measured	SCS	Limits

Category: 602-A  
 Matrix: AQUEOUS  
 QC Lot: 17 SEP 90-L QC Run: 17 SEP 90-L  
 Concentration Units: ug/L

a,a,a-Trifluorotoluene	30.0	31.0	103	20-160
------------------------	------	------	-----	--------

Category: 601-A  
 Matrix: AQUEOUS  
 QC Lot: 19 SEP 90-F QC Run: 19 SEP 90-F  
 Concentration Units: ug/L

Bromochloromethane	5.00	6.26	125	20-160
--------------------	------	------	-----	--------

Category: 602-A  
 Matrix: AQUEOUS  
 QC Lot: 18 SEP 90-L QC Run: 18 SEP 90-L  
 Concentration Units: ug/L

a,a,a-Trifluorotoluene	30.0	31.0	103	20-160
------------------------	------	------	-----	--------

Category: 601-A  
 Matrix: AQUEOUS  
 QC Lot: 23 SEP 90-F QC Run: 23 SEP 90-F  
 Concentration Units: ug/L

Bromochloromethane	5.00	5.85	117	20-160
--------------------	------	------	-----	--------

Calculations are performed before rounding to avoid round-off errors in calculated results.

**METHOD BLANK REPORT**  
**Volatile Organics by GC**

Analyte	Result	Units	Reporting Limit
Test: 8020-BTEX-AP			
Matrix: AQUEOUS			
QC Lot: 17 SEP 90-L    QC Run: 17 SEP 90-L			
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	0.50
Test: 601-A			
Matrix: AQUEOUS			
QC Lot: 19 SEP 90-F    QC Run: 19 SEP 90-F			
1,2-Dichloroethane	ND	ug/L	1.0
Test: 8020-BTEX-AP			
Matrix: AQUEOUS			
QC Lot: 18 SEP 90-L    QC Run: 18 SEP 90-L			
Benzene	ND	ug/L	0.50
Toluene	ND	ug/L	0.50
Ethylbenzene	ND	ug/L	0.50
Xylenes (total)	ND	ug/L	0.50
Test: 601-A			
Matrix: AQUEOUS			
QC Lot: 23 SEP 90-F    QC Run: 23 SEP 90-F			
1,2-Dichloroethane	ND	ug/L	1.0

# Enseco - Rocky Mountain Analytical

4955 Yarrow Street  
Arvada, Colorado 80002  
303/421-6611 Facsimile: 303/431-7171

Attn: Randy Thompson

Enseco Client Danesh & Moore

Project MAVERICK KIRTLAND, NM

Sampling Co. D&M

Sampling Site Tank Farm

Team Leader Terry Vandell

## CHAIN OF CUSTODY

No.

SAMPLE SAFE™ CONDITIONS

Seal # ENS 1089

1. Packed by: TDV

Yes ☒ No ☐

2. Seal Intact Upon Receipt by Sampling Co.:

3. Condition of Contents:

TDV

4. Sealed for Shipping by:

Seal # 4 °C

5. Initial Contents Temp.: MW-13 (32 poly)

6. Sampling Status: Done Continuing Until

Yes ☐ No ☐

7. Seal Intact Upon Receipt by Laboratory:

8. Contents Temperature Upon Receipt by Lab: °C

9. Condition of Contents:

Date	Time	Sample ID/Description	Sample Type	No. Containers	Analysis Parameters	Remarks
9/13/90	3:00 PM	MW-16	Water	6-40 mlg glass 1-32 oz poly	BTEX; 1,3 DCA TDS, SO4, CL	Dup State
	3:30 PM	MW-14				Dup State
	4:00 PM	MW-9				Dup State
	5:30 PM	MW-10				Dup State
	6:00 PM	MW-19				Dup State
9/13/90	8:30 AM	MW-13 *			*Note: 300Z forthcoming for MW 13	
9/14/90	9:30 AM	MW-15				
	11:00 AM	MW-20				
	11:30 AM	MW-22				Slight sheen MW-22
	12:30 PM	MW-17				Strong hydrocarbon MW-17

### CUSTODY TRANSFERS PRIOR TO SHIPPING

Relinquished by: (signed) Terry Vandell Date 9/15/90 Time

Received by: (signed) Fed X press

1 Terry Vandell

2 Fed X press

3

### SHIPPING DETAILS

Delivered to Shipper by:

Method of Shipment: RR Mail

Airbill #

Received for Lab: RR Mail

Signed [Signature] Date/Time 9-15-90

11 346

Enseco Project No.

White and Pink Copies to Lab Yellow to Sampler

SS-001







APPENDIX G  
OFF-SITE SUBSURFACE SOIL SAMPLES

## APPENDIX G

### OFF-SITE SUBSURFACE SOIL SAMPLES

As required by the OCD (Bill Olson), an off-site subsurface soil sample was taken from a depth of 9.5 to 10 feet in the pasture adjacent to the tank farm, about 200 feet south of the refinery and about 400 feet west of the tank farm (Plate 2). Although the sample visually appeared to be contaminated (i.e. it was black and had a noxious odor), the laboratory data from Data Chem (an EPA contract laboratory located in Salt Lake City, Utah), indicate that only ethylbenzene, toluene and xylene were detected at very low levels of 2.0, 0.7 and 7.0 ug/g, respectively, and that the sample did not fail the TCLP test for metals, or the characteristic tests for reactivity or corrosivity (Table G-1).

TABLE G-1

LABORATORY ANALYTICAL DATA RESULTS  
FOR CONSTITUENTS DETECTED FROM THE  
OFF-SITE SUBSURFACE SAMPLE  
(August 1990)

Sample Site Designation And Depth Sampled (in feet)	Volatile Organics (ug/g)		TCLP - Metals (mg/l)		Characteristic Tests	
	Ethylbenzene	Toluene	Xylene	Barium	pH Units	Reactive Sulfide (mg/kg)
Off-site (9.5 -10)	2.0	0.7	7.0	3.0	7.3	30





## ANALYTICAL REPORT

Form ARF-C

Page 2 of 2

Date 8/29/90

Agency Identification Number S90-0730-DE

### General Set Comments

This sample contains greater than 1000µg/g TPH as diesel.

Date Extracted:  
Date Digested:  
Date Analyzed:

**Field Comment:**

Remarksby: (Signature)

**Signature:**

REVISED 1/23/1990.



## ENVIRONMENTAL WASTE REPORT

Form EPRG-A

Page 1 of 2

Part 1 of 1

Date 9/13/90Agency Identification Number S90-0730-BEAccount No. 03018

Dames & Moore  
127 South 500 East Suite 300  
Salt Lake City, UT 84102-1959  
Attention: Terry Vandell

Telephone (801) 521-9255

## Sampling Collection and Shipment

Sampling Site Maverik Kirtland, NM Date of Collection August 27, 1990Date Samples Received at DataChem August 28, 1990

## Analytical Results

Parameter Name	Field Number	Lab Number	OFF-SITE							Limit of Detection
Analysis Date Units			EJ 4337							
Method	Prep Method									
Arsenic (As)										
09/06/1990		mg/L	ND*							0.3
6010 [1]	TCLP [1]									
Barium (Ba)										
09/06/1990		mg/L	3.0							0.5
6010 [1]	TCLP [1]									
Cadmium (Cd)										
09/06/1990		mg/L	ND*							0.05
6010 [1]	TCLP [1]									
Chromium (Cr)										
09/06/1990		mg/L	ND*							0.05
6010 [1]	TCLP [1]									
Lead (Pb)										
09/06/1990		mg/L	ND*							0.3
6010 [1]	TCLP [1]									
Selenium (Se)										
09/06/1990		mg/L	ND*							0.3
6010 [1]	TCLP [1]									
Silver (Ag)										
09/06/1990		mg/L	ND*							0.05
6010 [1]	TCLP [1]									
Mercury (Hg)										
09/06/1990		mg/L	ND*							0.0002
7470 [1]	TCLP [1]									

† See comment on last page.

ND Parameter not detected.

NR Parameter not requested.

† Analyses completed on or before this date.

\*\* Parameter not analyzed (See comment page).

( ) Parameter between LOD and LOQ.

[ ] Method Reference (See comments page.)

Analyst: Ekika S. HoskinReviewer: Michael E. RichmondLaboratory Supervisor: Mike P. Beesley

960 West LeVoy Drive / Salt Lake City, Utah 84123-2500 / (801) 266-7700



ENVIRONMENTAL WASTE REPORT

Form EPRG-C

Page 2 of 2

Date 9/13/90  
Agency Identification Number S90-0730-BE

Method Index

-- Method Reference --

- [1] SW-846 "Test Methods for Evaluating Solid Waste", September 1986.



## ANALYTICAL REQUEST FORM

1. ☐ REGULAR Status

☒ RUSH Status Requested - ADDITIONAL CHARGE

CONFIRMATION WITH DATACHEM LABORATORIES  
REQUIRED FOR SCHEDULING AND PRICING

As discussed  
w. R. Potter

2. Date 8/27/90 Purchase Order No. 14819-005-5304

3. Company Name DAMES & MOORE

Address 1275 S. 500 E. Suite 300

SLC, UT 84102-1959

Person to Contact Terry Vandell

Telephone (801) 521-9255

Billing Address (if different from above)

### 4. Sample Collection

Sampling Site MAVERIK, KIRTLAND NM

Industrial Process Petroleum Refinery

Date of Collection 8/27/90

Time Collected 14:15

Date of Shipment 8/27/90

Chain of Custody No. \_\_\_\_\_

### 5. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
	off-site	Soil	402.	BTEX, pH, REACTIVITY
ES4337	off-site	Soil	802. Amber	TCLP (Volts., Metals)
				Depth of Sample = 9.5-10.0 Feet

\*Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk Sample; Blood; Urine; Tissue; Soil; Water; Other

### 6. QC REQUIREMENTS

MUST BE COMPLETED - See

General Services Terms and

Conditions: QC samples billed

at regular sample rate

☐ METHOD QC SAMPLES

(Lab QC according to published methods)

☐ PROJECT PLAN QC SAMPLES

(Lab QC according to provided QA/QC Plan)

☒ NO QC SAMPLES REQUESTED

(May not conform to Agency requirements)

☐ OTHER (as specified below)

Comments

As per Rand Potter, Analytical Results

By Sept 17 '90 Total Cost = \$1,395

Possible Contamination and/or Chemical Hazards

7. Requested by

Terry Vandell

960 West LeVoy Drive / Salt Lake City, UT 84123  
4388 Glendale-Milford Road / Cincinnati, OH 45242

800-356-9135 or 801-266-7700 / FAX: 801-268-9992  
800-458-1493 or 513-733-5336 / FAX: 513-733-5347

DATACHEM LABORATORIES - A SORENSON COMPANY

DISTRIBUTION:

WHITE - LABORATORY COPY

CANARY - CUSTOMER COPY



## ENVIRONMENTAL SOIL REPORT

Form EPRS-A

Page 1 of 2

Part 1 of 1

Date

9/7/90

Agency Identification Number S90-0730-CE

Account No. 03018

Dames & Moore  
127 South 500 East Suite 300  
Salt Lake City, UT 84102-1959  
Attention: Terry Vandell

Telephone (801) 521-9255

## Sampling Collection and Shipment

Sampling Site Maverik Kirtland, NM Date of Collection August 27, 1990Date Samples Received at DataChem August 28, 1990

## Analytical Results

Parameter Name	Analysis Date	Units	Method	Prep Method	Field Number	Lab Number	OFF-SITE											Limit of Detection
pH	08/29/1990						EJ 4337											
9040 [1]		pH						7.3										± 0.1
Reactive Sulfide	08/29/1990	mg/Kg						30										10
9030 [1]		7.3.4.2 [1]																
Reactive Cyanide	08/29/1990	mg/Kg						ND*										0.2
9012 [1]		7.3.3.2 [1]																

† See comment on last page.

ND Parameter not detected.

NR Parameter not requested.

\* Analyses completed on or before this date.

\*\* Parameter not analyzed (See comment page).

() Parameter between LOD and LOQ.

[ ] Method Reference (See comments page.)

Analyst: Norman K. Christensen

Reviewer: Rosemary H. Hanks

Laboratory Supervisor: Mike P. Beasley

960 West LeVoy Drive / Salt Lake City, Utah 84123-2500 / (801) 266-7700



ENVIRONMENTAL SOIL REPORT

Form EPRS-C

Page 2 of 2

Date

9/7/90

Agency Identification Number S90-0730-CE

Method Index

— Method Reference —

- [1] SW-846 "Test Methods for Evaluating Solid Waste", September 1986.



As discussed  
w. R. Potten

~~☒~~ **RUSH** Status Requested - ADDITIONAL CHARGE

As discussed  
w. R. Potter

Chain of Custody No. \_\_\_\_\_

Laboratory Use Only	Client Sample Number	Media Type*	Sample Volume (Liters)	ANALYSES REQUESTED - Use Method Number if Known
	off-site	Soil	40z.	BTEX, pH, REACTIVITY
EJ4337	off-site	Soil	8oz. Amber	TCLP (Volts., Metals)
				Depth of Sample = 9.5-10.0 Feet

CANARY - CUSTOMER COPY

Date Extracted:  
Date Digested:  
Date Analyzed:

Account: 3018	DCL Set ID: S900730	Sponsor: Dames & Moore	S P L I T S				
Field Comment:							
			BTEX	TCLP Extraction	pH & Reactivity	TCLP metals	TCLP VOLATILES

[illegible]

**Final Disposition:**

**Signature:**

**DataChem Laboratories/ 900 West LeVoy Drive / Salt Lake City, Utah 84123**

