

GW - 75

## REPORTS

YEAR(S):

Oct 1991

GW-75

**HOMCO International, Inc.**

Bellaire, Texas

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**ENSR**

Phase IV Soils and  
Groundwater Investigation  
HOMCO Site 135  
Hobbs, New Mexico

**ENSR Consulting and Engineering**

**October 1991**

**Document Number 3519-010-435**



**HOMCO, International, Inc.**  
Bellaire, Texas

Phase IV Soils and Groundwater Investigation  
HOMCO Site 135  
Hobbs, New Mexico

**ENSR Consulting and Engineering**

**October 1991**

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## **EXECUTIVE SUMMARY**

Contaminated soils beneath the Former Leach Pit, the Former Underground Holding Tank #1, the Former Bulk Fuel Dispensing Area, and the Former Mud Tank Cleaning Area were excavated from the HOMCO Facility in Hobbs, New Mexico in February 1991. Subsequent to that effort, this soils and groundwater investigation was performed to determine:

- If organic compounds from the remediated areas have migrated to the water table; and
- If significant lateral migration of organic compounds had occurred into soils (above the water table) outside the areas of remedial excavation.

These objectives were met by drilling eight borings, installing four observation wells, and analyzing soil and groundwater samples.

### Former Leach Pit

ENSR concludes that some compounds from the Former Leach Pit are present in soils below the base of remedial excavation. There has not been significant lateral migration of compounds in soils (above the water table) outside the limit of remedial excavation. Some semi-volatile organic compounds (at low concentrations) may be present in groundwater. ENSR recommended that a 23-foot by 28-foot concrete slab be installed over the area, and that the observation well (OW1) be sampled two more times over the next year. The concrete slab was installed in August 1991.

### Former Underground Holding Tank #1

ENSR concludes that some insoluble, semi-volatile organic compounds are present in soils at the water table, but there has not been significant lateral migration of compounds in soils (above the water table) outside the limit of remedial excavation. Organic compounds were not detected in groundwater beneath this area. ENSR recommended that a 20-foot by 28-foot concrete slab be installed over the area. The concrete slab and a wastewater sump were installed in August 1991.

#### Former Bulk Fuel Dispensing Area

No organic compounds attributable to operation of this facility were detected in soils or groundwaters during this investigation. ENSR recommends that soils in this area be graded to prevent rainfall runoff from leaving the HOMCO property.

#### Former Mud Tank Cleaning Area

No organic compounds attributable to operation of this facility were detected in soils or groundwaters during this investigation. ENSR recommends that soils in this area be graded to prevent rainfall runoff from leaving the HOMCO property.

#### Western Company of North America Water Supply Well

Previous analytical data provided by OCD suggested that waters from the Western Company's water supply well contained benzene, ethylbenzene, toluene, and xylenes. ENSR concludes that the detected compounds were not attributable to the investigated areas. ENSR proposes no further actions relating to the waters from this well.



## 1.0 INTRODUCTION

This report presents the results and conclusions of a soils and groundwater investigation conducted at HOMCO Site 135 in Hobbs, New Mexico. The investigation, which was performed between March and July 1991, was designed to address the requirements of a February 25, 1991 letter from Mr. R. Anderson (State of New Mexico Energy, Mineral and Natural Resources Department, Oil Conservation Division, (OCD)) to Ms. D. Venable (ENSR Consulting and Engineering, (ENSR)). That letter (contained Appendix A) required the following actions:

1. Installation of observation wells at the sites of the Former Leach Pit and Former Underground Holding Tank #1 (UHT#1) to determine if chemicals had migrated to the water table.
2. Determination of the lateral extents of chemicals beyond the remedial excavation limits of the Former Leach Pit and the Former UHT#1 through coring or other investigation programs.
3. Determination of the concentrations of chemicals in soils near the property line adjacent to the Former Bulk Fuel Dispensing Area.

A site plot plan is included below as Figure 2-1.

A workplan to meet these requirements was developed and submitted to the OCD in March 1991. The workplan included additional activities to address data obtained during a March 19, 1991 telephone conversation between Ms. Venable (ENSR) and Mr. Anderson (OCD). The data suggested that the water supply well of the adjacent land owner, the Western Company of North America, contained benzene, toluene, ethyl benzene and xylenes (see Appendix A). The additional investigative activities included installation of observation wells at the Former Bulk Fuel Dispensing Area and at the Former Mud Tank Cleaning Area. The workplan, with minor revisions, was approved in an April 26, 1991 letter from Mr. Anderson (OCD) to Ms. Venable (ENSR) (Appendix A). This report presents the results of that workplan implementation.

## **1.1 Facility Owner**

**Name:** HOMCO International, Inc.  
**Address:** P.O. Box 2442  
Houston, Texas 77252  
(713)663-6444

## **1.2 Location**

**Address:** 3000 West County Road  
Hobbs, New Mexico 88240

**County:** Lea

### **U.S.G.S**

**Quad Map:** Hobbs West, New Mexico  
Township 18 South, Range 38 East, SW 1/4 of SW 1/4 of NE 1/4 of Section 20 (see Figure 1-1).

## **1.3 Business Conducted at the Facility**

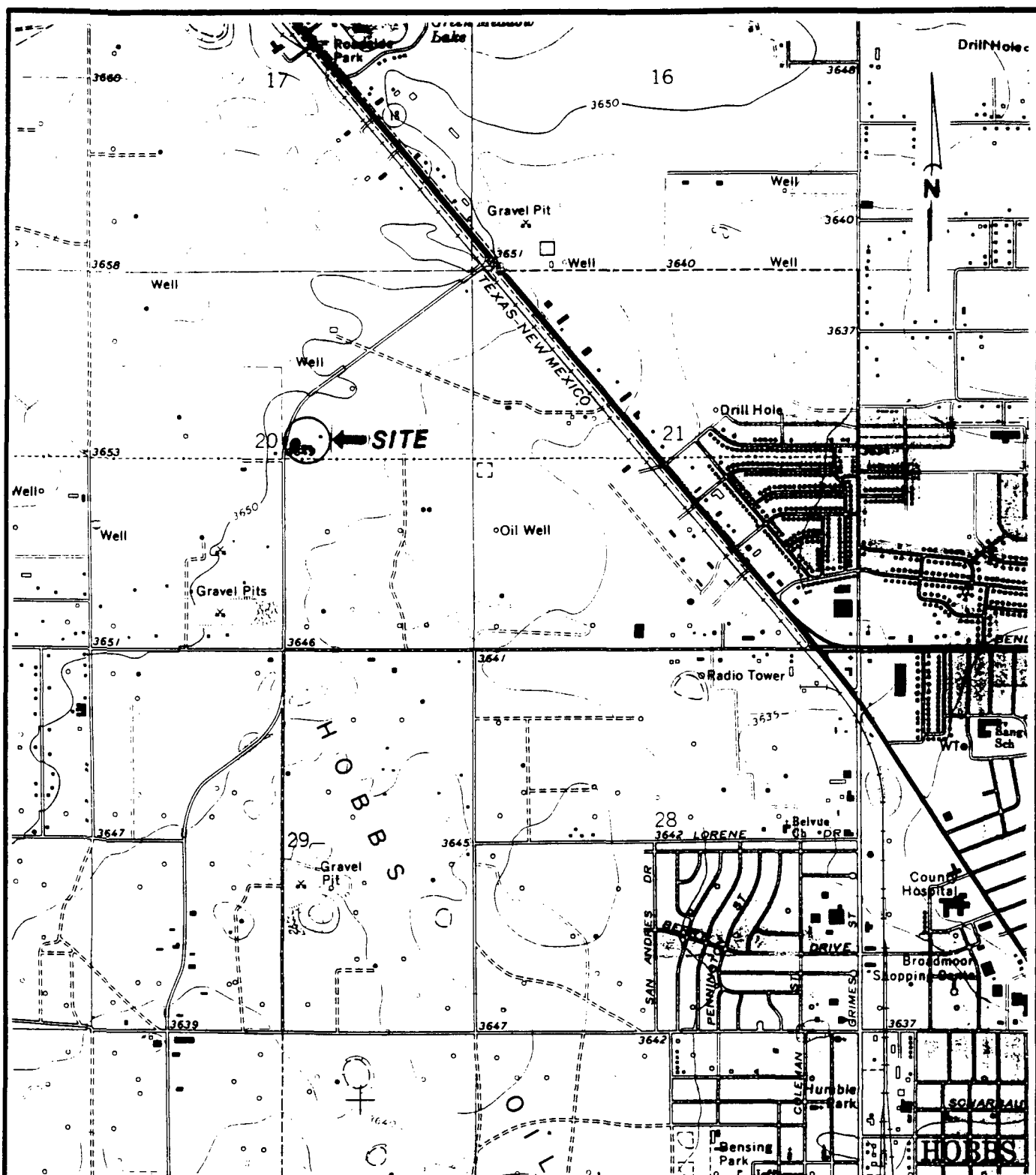
HOMCO International, Inc. provides on- and off-site support services to the oil and natural gas industry. On-site services include maintenance and storage of rental equipment. HOMCO's inventory of rental tools includes: blowout preventers, drill pipe, drill collars, washover pipe, kelleys, slips, elevators, jars, pumping units, accumulation tanks, and reverse osmosis units.

On-site, high-pressure steam cleaning is performed on equipment after each rental usage. Steam cleaning removes residual soils, crude oils, and drilling fluids. Fluids resulting from steam cleaning are discharged to an on-site wastewater disposal system. Between 1982 and September 24, 1990, the wastewater disposal system consisted of:

- an interior, concrete-lined sump;
- a concrete, flow-through underground tank (UHT#1);
- a discontinuous, cinder block-lined, open bottomed leachpit (Leach Pit); and
- associated piping (see Phase 1 Investigation Report, October 1990).

These facilities were removed in February 1991, and are now being replaced by an OCD-approved (January 9, 1991) closed loop, oil/water separator (see Wastewater Recycling System Plans and Specifications, December, 1990).





0 2000 4000  
Scale in Feet

Ref.: USGS Hobbs West, N. Mex. Quadrangle Map, 1979.

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FIGURE 1-1  
SITE LOCATION MAP  
HOMCO SITE NO. 135  
HOBBS, NEW MEXICO

DRAWN BY: S. SAWYERS

DATE: 6-26-90

PROJECT NUMBER:

CHK'D BY:

REVISED:

3519-001-135

#### **1.4 Background and Purpose of This Investigation**

Contaminated soils and structures relating to the Leach Pit, UHT#1, the Bulk Fuel Dispensing Area and the Mud Tank Cleaning Area (see Figure 2-1) were excavated in February 1991. These remediations were performed in response to a September 12, 1990 letter from the OCD to ENSR. The purpose of this Phase IV investigation was to assess the types and concentrations of potential contaminants remaining in these areas. Table 1-1 summarizes the chronology of activities and correspondence which resulted in this investigation. Appendix A includes significant correspondence associated with the investigation.

**TABLE 1-1**

**Chronology of Correspondence and Remediation  
HOMCO Site 135  
Hobbs, New Mexico**

Date	Event
September 10, 1990	Letter from ENSR to OCD applying for installation of a closed-loop wastewater recycling/disposal system.
September 12, 1990	Letter from OCD to ENSR requesting submittal of a closure proposal for the existing wastewater disposal system.
October 12, 1990	Report from ENSR to OCD summarizing a preliminary site assessment, and proposing closure/remedial action plans for the Leach Pit, the UHT#1, the Bulk Fuel Dispensing Area and the Mud Tank Cleaning Area. The proposed remediations consisted of excavation to OCD soil cleanup criteria.
November 8, 1990	Letter from OCD to ENSR approving the preliminary site assessment and the closure/remedial action plans.
February 1991	Remediation of the Leach Pit, the UHT#1, the Bulk Fuel Dispensing Area and the Mud Tank Cleaning Area.
February 10 and 14, 1991	Letter from ENSR to OCD with preliminary closure/remedial action results. Results indicate that excavation of underlying bedrock to cleanup criteria was not economically feasible.
February 14, 1991	Telephone conversation between OCD and ENSR in which OCD approved backfill remedial excavations without achievement of cleanup criteria. This approval was given with the understanding that the areas in which cleanup criteria were not obtained would be capped to prevent percolation of liquids through the underlying soils and rock.
February 25, 1991	Letter from OCD to ENSR requiring this Phase IV soils and groundwater investigation.
March 1991	ENSR submittal of a work plan for soils and groundwater investigations.
April 26, 1991	Letter from OCD to ENSR providing conditional approval for the investigation work plan.
June-July 1991	This Phase IV soils and groundwater investigation performed.

**TABLE 1-1 (Cont'd)**

**Chronology of Correspondence and Remediation  
HOMCO Site 135  
Hobbs, New Mexico**

Date	Event
July 22, 1991	Letter from ENSR to OCD with preliminary results of the soils investigation. The letter proposes sizes of concrete slabs to cover the areas of the Former Leach Pit and the Former UHT#1 where cleanup criteria were not attained during remediation.
July 30, 1991	Letter from ENSR to OCD with preliminary results of the soils investigation. The letter proposes that slab coverage of the Former Bulk Fuel Dispensing Area and the Former Mud Tank Cleaning Area would not be required.
July 31, 1991	Letter from OCD to ENSR approving the proposed concrete slabs to cover the Former Leach Pit area and the Former UHT#1 area.
August 6, 1991	Letter from OCD to ENSR approving the proposal to not cover the Former Bulk Fuel Dispensing Area and the Former mud Tank Cleaning Area with concrete slabs.



## 2.0 METHODS AND RESULTS

This investigation included the installation of eight soil borings (B1 through B8) and four observation wells (OW1 through OW4). The wells were developed, slug tested and sampled, and water levels were measured. The boring and well locations and elevations were surveyed. Soil and groundwater samples were submitted for chemical analyses. Table 2-1 presents the chronology of these activities. The details of methods used are presented in Appendices B through N. Appendix B documents deviations from the workplan.

### 2.1 Boring and Observation Well Locations and Depths

Figure 2-1 presents the locations of borings and wells. These locations adhere to those presented in the workplan. Boring B3 was located using procedures described in Section 3.1 of the workplan. Field screening of soils from boring B2 suggested the presence of contaminants (see lithologic log, Appendix C). Therefore, boring B3 was located 20 feet south-east of Boring B2.

Soil boring, sampling and grouting methods are presented in Appendix D. Methods used to perform soil head-space analyses are presented in Appendix E. Well installation methods are presented in Appendix D. Lithologic logs of the borings and wells are presented in Appendix C. Observation well construction details are presented in Appendix F. Well development details are presented in Appendix G.

Table 2-2 presents some details of the borings and observation wells.

### 2.2 Soil Analytical Parameters and Results

When possible, samples were collected from soil and observation well borings for chemical analyses at the following levels:

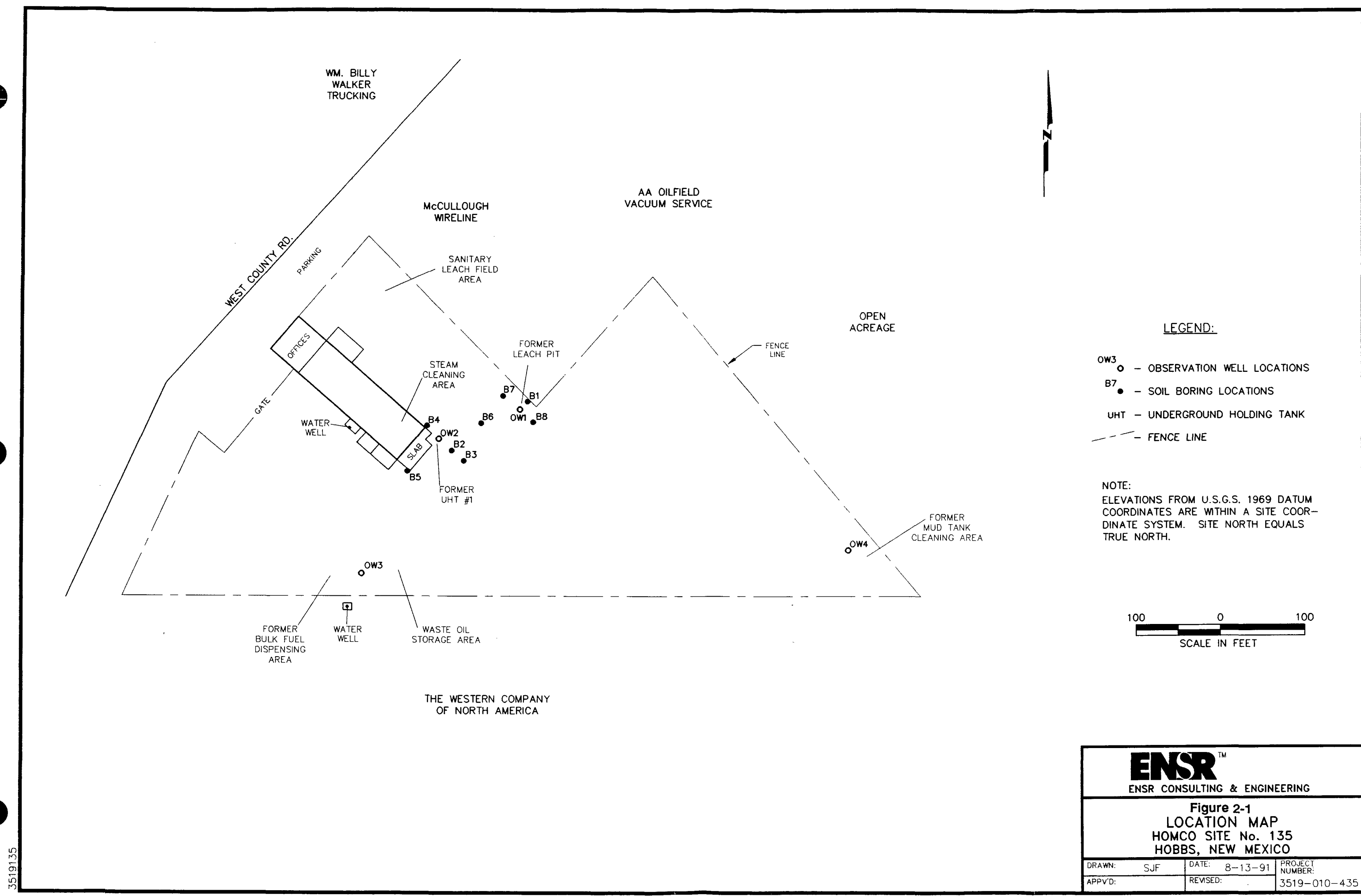
- immediately above the first soil/caliche interface;
- on ~10-foot centers below the soil/caliche interface;
- immediately below the water table in observation well borings; and
- at the bottom of the boring.

The samples were analyzed for the parameters listed in Table 2-3. In total, 42 samples were analyzed for benzene, ethylbenzene, toluene, xylenes (BETX), total petroleum hydrocarbons

**TABLE 2-1**

**Chronology of Field Activities  
Soils and Groundwater Investigations  
HOMCO Site 135  
Hobbs, New Mexico**

Activity	Workplan Reference	Dates
Advance B1 through B8	Section 3.0	May 21-31, 1991
Install OW1 through OW4	Section 2.0	May 21-31, 1991
Develop OW1 through OW4	Section 2.3	May 30-June 1, 1991
Slug Test OW1, OW3, and OW4	Section 2.4	June 1-3, 1991
Measure water levels in OW1 through OW4	Section 2.5	June 3, 1991 July 17, 1991
Sample OW1 through OW4 and HOMCO Water Well	Section 2.5	July 17-18, 1991
Survey borings and wells	Section 2.3	July 17-18, 1991
Validation of analytical data	Section 3.3 Section 2.6	June 10-28, 1991 Aug. 12-16, 1991



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**Figure 2-1**  
**LOCATION MAP**  
**HOMCO SITE No. 135**  
**HOBBS, NEW MEXICO**

DRAWN: SJF	DATE: 8-13-91	PROJECT NUMBER:
APPVD:	REVISED:	3519-010-435



**TABLE 2-2**

**Boring and Observation Well Elevations  
Soils and Groundwater Investigation  
HOMCO Site 135  
Hobbs, New Mexico**

<b>Location</b>	<b>Ground Surface</b>	<b>Top of Casing</b>	<b>Top of Screen</b>	<b>Bottom of Screen</b>	<b>Total Depth</b>
B1	3,648.4	NA	NA	NA	3,623.4
B2	3,648.3	NA	NA	NA	3,627.3
B3	3,648.3	NA	NA	NA	3,629.3
B4	3648.9	NA	NA	NA	3,628.4
B5	3,648.7	NA	NA	NA	3,626.7
B6	3,648.4	NA	NA	NA	3,624.4
B7	3,648.5	NA	NA	NA	3,629.5
B8	3,648.2	NA	NA	NA	3,629.2
OW1	3,648.3	3,648.10	3,601.3	3,586.3	3,577.3
OW2	3,648.8	3,648.00	3,600.8	3,585.8	3,577.8
OW3	3,648.1	3,647.95	3,596.8	3,581.8	3,577.1
OW4	3,646.9	3,646.89	3,599.9	3,584.9	3,576.9
<p><b>NOTES:</b></p> <p>NA - Not applicable</p> <p>Elevations are in feet, referenced to the U.S.G.S., 1969 datum. These elevations were surveyed by Pettigrew and Associates: Hobbs, New Mexico.</p> <p>Well and boring details in feet below ground surface are presented in Appendices C and F.</p>					

**TABLE 2-3**

**Soil Analytical Parameters and Methods  
Soils and Groundwater Investigation  
HOMCO Site 135  
Hobbs, New Mexico**

Parameter	Preservative	Test Method
Total Petroleum Hydrocarbons	4° C	EPA-600/4/79-020 418.1
BTEX and MTBE	4° C	SW-846 8020
Volatile Organic Compounds <sup>(2)(3)</sup>	4° C	SW-846 8240
Semi-Volatile Organic Compounds <sup>(2)(3)</sup>	4° C	SW-846 8270
Soil TOC <sup>(1)</sup>	None	Agronomy No. 9, Part 2 89-3.5
Soil Bulk Dry Density <sup>(1)</sup>	None	ASTM D4564-86
Headspace	18.5-20° C	OCD letter of April 26, 1991 (see Appendix E)
<p>(1) This analysis was performed on soil samples collected from below the water table in observation well borings.</p> <p>(2) This analysis was performed on one soil sample from each boring deemed "most contaminated" by field screening. In addition, this analysis was performed on samples from immediately below the water table in observation well borings. BTEX analyses were not performed on these samples.</p> <p>(3) The specific compounds identified are those on the Target Compound List from the USEPA Contract Laboratory Program Statement of Work, 10/86, Rev. 7/87.</p>		

(TPH) and methyl tertiarybutyl ether (MTBE). Sixteen samples were analyzed for volatile and semi-volatile organic compounds.

Prior to their use, analytical results were validated according to the criteria of the Site Quality Assurance/Quality Control Plan (January 1991) based, in part, on the draft document entitled Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses, (USEPA, February 1, 1988). The details of this process are presented in Appendix H. Laboratory Analytical Reports are presented in Appendix I. Table 2-4 summarizes the soil chemical analyses. Table 2-5 summarizes the soil geotechnical analyses. Results of headspace measurements are presented on the lithologic logs in Appendix C.

### **2.3 Groundwater Analytical Parameters and Results**

Groundwaters were sampled from observation wells OW1 through OW4 and the HOMCO water supply well on July 17-18, 1991 for the parameters listed in Table 2-6. The Western water supply well was not sampled because permission could not be obtained from the Western Company of North America Corporate offices in Houston, Texas. Prior to their use, analytical results were validated according to criteria of the Site Quality Assurance/Quality Control Plan (January 1991) based, in part, on the draft document entitled: Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses, (USEPA, February 1, 1988). The details of this process are presented in Appendix H. Field sampling records and laboratory Analytical Reports are presented in Appendices J and N. Table 2-7 summarizes the results of these analyses.

### **2.4 Slug Tests and Water Levels**

Rising head slug tests were performed on observations wells OW1, OW3 and OW4. A test was attempted in OW2; however, the slug dislodged the pressure transducer, invalidating the test results. Results from the valid tests (OW1, OW3, OW4) were analyzed using the Bouwer and Rice (1976, 1989) method. Details of the field technique and analytical method are presented in Appendix K. Analyses resulted in hydraulic conductivity (K) estimates for the monitored groundwater zone (Table 2-8).

Static water levels were measured from the observation wells on June 3 and July 17, 1991. These water level measurements are presented in Table 2-9.

SUMMARY OF SOIL CHEMICAL ANALYSES  
SOILS AND GROUNDWATER INVESTIGATION  
HOMCO SITE 135  
HOBBS, NEW MEXICO

SAMPLE	DEPTH	BENZENE UG/KG	TOLUENE UG/KG	ETHYL BENZENE UG/KG	XYLENES UG/KG	METHYL TERTIARY BUTYL ETHER UG/KG	TPH MG/KG	DETECTED OTHER VOLATILE COMPOUNDS UG/KG	DETECTED OTHER SEMIVOLATILE COMPOUNDS UG/KG
B1-2	0'-2.5'	<2	<2	<2	<2	<10	<10	NA	NA
B1-7	14.0'-14.5'	<5	<5	<5	<5	<5	NA	ND	ND
B1-8	20.0'-21.5'	<2	<2	<2	<2	<10	35	NA	NA
B2-3	4.8'-5.0'	<5	<5	<5	<5	<5	NA	ND	ND
B2-5	14.7'-16.9'	<2	<2	<2	<2	<10	11	NA	NA
B2-6	19.4'-21.0'	<2	<2	<2	<2	<10	35	NA	NA
B3-3	5.0'-5.5'	<5	<5	<5	<5	<10	NA	ND	HENEICOSANE 830
B3-5	15.5'-16.0'	<2	<2	<2	<2	<10	<10	NA	NA
B4-3	4.0'-5.0'	<5	<5	<5	<5	<10	NA	ND	TRICOSANE TETRACOSANE 780 780
B4-5	17.5'-18.5'	<2	<2	<2	3.00	<10	<10	NA	NA
B5-4	6.0'-6.5'	<5	<5	<5	<5	<10	NA	ND	EICOSANE HENEICOSANE DOCOSANE 810 1100 680
B5-5	13.0'-16.0'	<2	<2	<2	<2	<10	15	NA	NA
B5-6	18.0'-19.0'	<2	<2	<2	<2	<10	34	NA	NA
B6-3	4.5'-5.0'	<5	<5	<5	<5	<10	NA	ND	HENEICOSANE 960
B7-4	7.0'-8.0'	<5	<5	<5	<5	<10	NA	METHYLENE CHLORIDE ACETONE CARBON DISULFIDE 16 186 5.4	ND
B7-6	17.0'-18.0'	<2	<2	<2	<2	<10	21	NA	NA
B8-3	5.0'-6.0'	<5	<5	<5	<5	<10	NA	METHYLENE CHLORIDE 12.5	DI-N-BUTYLPHTHALATE 1100

NA - Not Analyzed

ND - Not Detected

C1 - Sample of soil cuttings analyzed for disposal purposes.

T-4  
 SUMMARY OF SOIL CHEMICAL ANALYSES  
 SOILS AND GROUNDWATER INVESTIGATION  
 HOMCO SITE 135  
 HOBBS, NEW MEXICO

SAMPLE	DEPTH	BENZENE UG/KG	TOLUENE UG/KG	ETHYL- BENZENE UG/KG	XYLENES UG/KG	METHYL TERTIARY BUTYL ETHER UG/KG	TPH MG/KG	DETECTED OTHER VOLATILE COMPOUNDS UG/KG	DETECTED OTHER SEMIVOLATILE COMPOUNDS UG/KG
B8-4	12.0'-13.0'	<2	<2	<2	<2	<10	<10	NA	NA
B8-5	17.0'-18.0'	<2	<2	<2	<2	<10	39	NA	NA
OW1-7	14.75'-15.25'	<2	2.00	38.00	290.00	<10	1800	NA	NA
OW1-9	18.6'-23.6'	<5	<5	<5	<5	<10	NA	ND	DECAH TRIMETHYLOCTANE METHYLPROPYLCYCLOHEXANE UNIDENTIFIED ALKANE UNIDENTIFIED AROMATIC HYDROCARBON UNDECANE UNIDENTIFIED ALKENE UNIDENTIFIED AROMATIC HYDROCARBON DECAHYDRO - METHYLNAPHTHALENE UNIDENTIFIED CYCLIC HYDROCARBON DECAHYDRO - METHYLNAPHTHALENE ETHYL - DIMETHYLBENZENE 2,4,6 - TRIMETHYLOCTANE DECAH 2,6 - DIMETHYLNONANE BUTYLCYCLOHEXANE 3 - METHYLDECANE 3,7 - DIMETHYLNONANE 2,2,5,5 - TETRAMETHYLHEPTANE 3 - METHYLUNDECANE 3 - ETHYL - 2,7 - DIMETHYLOCTANE (1,2 - DIMETHYLBUTYL)CYCLOHEXANE UNDECANE DECAHYDRO - 2 - METHYLNAPHTHALENE PENTYLCYCLOHEXANE UNIDENTIFIED AROMATIC HYDROCARBON 1 - METHYL - 4 - ISOPROPYLBENZENE 3,7 - DIMETHYLUNDECANE 2,3,5 - TRIMETHYLUNDECANE TETRADECANE HEPTADECANE NONYLPHENOL
									21000 11000 19000 21000 13000 25000 10000 4800 4800 5500 7200 5800 2100 6300 6500 2200 2600 1800 6400 5300 2200 2300 11000 850 1100 950 1800 1100 1300 2800 1500 1200

NA - Not Analyzed

ND - Not Detected

C1 - Sample of soil cuttings analyzed for disposal purposes.

TABLE 4  
SUMMARY OF SOIL CHEMICAL ANALYSES  
SOILS AND GROUNDWATER INVESTIGATION  
HOMCO SITE 135  
HOBBS, NEW MEXICO

SAMPLE	DEPTH	BENZENE UG/KG	TOLUENE UG/KG	ETHYL BENZENE UG/KG	XYLENES UG/KG	METHYL TERTIARY BUTYL ETHER UG/KG	TPH MG/KG	DETECTED OTHER VOLATILE COMPOUNDS UG/KG	DETECTED OTHER SEMIVOLATILE COMPOUNDS UG/KG
OW1-12	41.0'-42.0'	<2	<2	<2	8.00	<10	<10	NA	NA
OW1-12D	41.0'-42.0'	<2	<2	<2	<2	<10	25	NA	NA
OW1-13	52.0'-54.0'	<5	<5	<5	<5	<10	NA	ND	HEXICOSANE 670
OW1-14	62.0'-63.0'	<2	<2	<2	<2	<10	<10	NA	NA
OW2-5	9.5'-10.0'	<250	<250	<250	<250	<250	NA	METHYLENE CHLORIDE 2780	UNIDENTIFIED ALKANE UNIDENTIFIED CYCLIC HYDROCARBON DECAH UNIDENTIFIED ALKENE DIMETHYLNONANE TRIMETHYLOCTANE UNIDENTIFIED ALKENE UNDECANE METHYL-METHYLETHYLBENZENE UNIDENTIFIED CYCLIC HYDROCARBON DECAHYDRO-METHYLNAPHTHALENE UNIDENTIFIED ALKANE ETHYL-DIMETHYLBENZENE 2800 3700 6500 7800 8000 14000 3000 10000 1300 3700 1200 1400 1000
OW2-8	23.0'-23.5'	<2	<2	<2	<2	<10	48	NA	NA
OW2-9	29.0'-30.0'	<2	<2	<2	<2	<10	11	NA	NA
OW2-10	39.5'-40.5'	<2	<2	6	15	<10	30	NA	NA
OW2-13	54.0'-55.5'	<5	<5	<5	<5	<5	NA	ND	DECAH 2,2,4-TRIMETHYLBENZENE 2,2,4,6,6-PENTAMETHYLHEPTANE 2-METHYL-5-PROPYLNONANE 2,2,6-TRIMETHYLBENZENE 2,2,3,3-TETRAMETHYLNONANE 2,2,5,5-TETRAMETHYLNONANE 2,8-DIMETHYLBENZENE 4,5-DIMETHYLBENZENE DODECANE 2,2,5,5-TETRAMETHYLHEXANE 2500 3100 1200 3100 900 4900 3000 2100 1300 3400 1300

NA - Not Analyzed

ND - Not Detected

C1 - Sample of soil cuttings analyzed for disposal purposes.

10-2-4  
SUMMARY OF SOIL CHEMICAL ANALYSES  
SOILS AND GROUNDWATER INVESTIGATION  
HOMCO SITE 135  
HOBBS, NEW MEXICO

SAMPLE	DEPTH	BENZENE UG/KG	TOLUENE UG/KG	ETHYL BENZENE UG/KG	XYLENES UG/KG	METHYL TERTIARY BUTYL ETHER UG/KG	TPH MG/KG	DETECTED OTHER VOLATILE COMPOUNDS UG/KG	DETECTED OTHER SEMIVOLATILE COMPOUNDS UG/KG
OW2-16	69.0'-69.5'	<2	<2	<2	<2	<10	<10	NA	NA
OW3-3D	4.5'-5.5'	<5	<5	<5	<5	<10	NA	ND	ND
OW3-7	21.5'-22.5'	<2	<2	<2	<2	<10	20	NA	NA
OW3-9	39.5'-40.5'	<2	<2	<2	<2	<10	28	NA	NA
OW3-10	53.0'-54.0'	<5	<5	<5	<5	<10	NA	ND	EICOSANE 660 HENEICOSANE 1200 DOCOSANE 970 TRICOSANE 670 TETRACOSANE 1000
OW3-11	61.0'-62.0'	<2	<2	<2	<2	<10	15	NA	NA
OW4-4	8.0'-8.5'	<5	<5	<5	<5	<10	NA	ND	HENEICOSANE 700 DODECANE 18 UNIDENTIFIED ALKANE 18 TRIDECAE 17 UNIDENTIFIED ALKANE 14 TETRADECANE 11
OW4-7	23.0'-24.0'	<2	<2	<2	<2	<10	18	NA	NA
OW4-9	34.0'-35.0'	<2	<2	<2	<2	<10	50	NA	NA
OW4-11	52.0'-53.0'	<5	<5	<5	<5	<10	NA	ND	ND
OW4-12	61.0'-62.0'	<2	<2	<2	<2	<10	<10	NA	NA
C1		<2	2	<2	2	NA	191	NA	NA

NA - Not Analyzed

ND - Not Detected

C1 - Sample of soil cuttings analyzed for disposal purposes.

**TABLE 2-5**

**Summary of Soil Geotechnical Analyses  
Soils and Groundwater Investigation  
HOMCO Site 135  
Hobbs, New Mexico**

Sample	Depth (feet)	Soil Type	TOC on Soil (%)	Bulk Dry Density (lbs/ft <sup>3</sup> )	Porosity Total (%) (Effective, %)
OW1-15	69-71	fine-med. grained sand	0.05	100.9	39 (33)
OW2-15	59-61	fine-med. grained sand	0.06	104.4	37 (32)
OW3-12	70-71	v.fine-fine grained sand	0.375	100.2	39 (33)
OW4-13	69-71	v.fine- fine grained sand	0.06	102.8	38 (32)
<p>Total porosities were calculated from bulk dry densities using the equations presented in Hough, B.K., 1969, "Basic Soils Engineering," John Wiley and Sons, New York.</p> <p>Effective porosities were estimated from the graphs of Scott and Scalmanini, 1978.</p>					



**TABLE 2-6**

**Groundwater Analytical Parameters and Methods  
Soils and Groundwater Investigation  
HOMCO Site 135  
Hobbs, New Mexico**

Parameter	Preservative	Test Method
pH	None	Field Measured (Orion SA210)
Specific Conductance	None	Field Measured (YSI Meter)
Temperature	None	Field Measured (YSI Meter)
Dissolved Oxygen	None	Field Measured (YSI S1B)
Volatile Organic Compounds plus MTBE	4° C	EPA-600/4-88/039 524 <sup>(1)</sup>
Semi-Volatile Organic Compounds	4° C	EPA-600/4-88/039 525 <sup>(1)</sup>
Total Petroleum Hydrocarbons	4° C	EPA-600/4/79-020 418.1
<sup>(1)</sup> The specific compounds identified are those found on the Target Compound List from the USEPA Contract Laboratory Program Statement of Work, 10/86, Rev. 7/87. (YSI meter) indicates type of meter used for this field measurement.		

SUMMARY OF GROUNDWATER CHEMICAL ANALYSES  
SOILS AND GROUNDWATER INVESTIGATION  
HOMCO SITE 135  
HOBBS, NEW MEXICO

SAMPLE	BENZENE UG/L	TOLUENE UG/L	ETHYL BENZENE UG/L	XYLENES UG/L	METHYL TERTIARY BUTYL ETHER UG/L	TPH MG/L	pH UNITS	TEMP °C	EC umhos/cm	DO mg/L	DETECTED OTHER VOLATILE COMPOUNDS UG/L	DETECTED OTHER SEMIVOLATILE COMPOUNDS UG/L
EB	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	NA	ND	ND
TB	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	NA	ND	ND
WS	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	NA	ND	ND
OW1	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	7.88	23.5	1150	1.3	ND	BENZO(A)PYRENE 0.8600 BENZO(G,H,I)PERYLENE 1.2000 GAMMA-CHLORDANE 0.4000 DIBENZ(A,H)ANTHRACENE 1.6000 DI(2-ETHYLHEXYL)ADIPATE 33.4000 HEPTACHLOR 0.1700 2,2',4,4',5,8'-HEXACHLORO- BIPHENYL 0.4000 INDENO(1,2,3,C,D)PYRENE 1.0000 METHOXYCHLOR 2.0000 PYRENE 0.7600
OW1D	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	NA	NA	NA	NA	ND	DI(2-ETHYLHEXYL)ADIPATE 2.5000
OW2	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	7.40	22	1300	5.1	ND	ND
OW3	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	7.16	21	1050	3.2	ND	ENDRIN 1.7000
OW4	<0.50	<0.50	<0.50	<0.50	<0.50	<1.0	7.20	24	2300	4.2	ND	ND

NA - Not Analyzed  
ND - Not Detected

EB - Equipment Blank  
TB - Trip Blank

WS - Water Supply Well (HOMCO)  
EC - Specific Conductance

DO - Dissolved Oxygen  
TPH - Total Petroleum Hydrocarbons

**TABLE 2-8**

**Hydraulic Conductivity Estimates  
Soils and Groundwater Investigation  
HOMCO Site 135  
Hobbs, New Mexico**

	Hydraulic Conductivity		
Well	Ft/day	Cm/sec	Soil Type
OW1	7.92	0.0028	V. Fine-Medium Sand
OW2	NA	NA	Fine-Medium Sand
OW3	6.31	0.0022	V.Fine-Fine Sandstone
OW4	2.79	0.00098	V.Fine-Fine Sand
Log Mean = 5.19 ft/day 0.0018 cm/sec		Log Std. Dev. = 0.238	
Arithmetic Mean = 5.67 ft/day 0.0020 cm/sec		Std. Dev. = 2.62	
NA: Not Analyzed			
Slug test data from OW2 were not analyzed because the slug displaced the pressure transducer in the well.			

**TABLE 2-9**

**Static Water Level Measurements  
Soils and Groundwater Investigation  
HOMCO Site 135  
Hobbs, New Mexico**

Well	June 3, 1991	July 17, 1991
OW1	3594.585	3594.53
OW2	3595.09	3595.02
OW3	3595.32	3595.28
OW4	3592.43	3592.40
<p>Separate, non-aqueous liquid phases were not detected in the wells.</p> <p>Water levels were measured with an ORS brand interface probe and a Well Wizard brand, electric well sounder.</p> <p>Water levels were measured from a mark on the top of the PVC casing. The elevations (in feet, U.S.G.S., 1969 Datum) of these marks were surveyed by Pettigrew and Associates on July 17-18, 1991.</p>		



## 3.0 GEOLOGY

### 3.1 Regional Geology

The HOMCO 135 site is within the Llano Estacado sub-region of the Great Plains physiographic province. The area has a low topographic relief which slopes approximately 17 feet per mile to the southeast.

The Pliocene Age Ogallala Formation outcrops throughout the Hobbs, New Mexico area. The Ogallala consists of continental deposits including fine to very fine grained sands with minimal amounts of clay, silt, coarse sand and gravel. The coarse sand and gravel, when present, occur in the lower third of the formation. The sediments are generally unconsolidated, except at the top where they have been cemented with calcium carbonate. The calcium carbonate cemented material is referred to as the caliche caprock. In the Hobbs area, the Ogallala averages 200 feet thick.

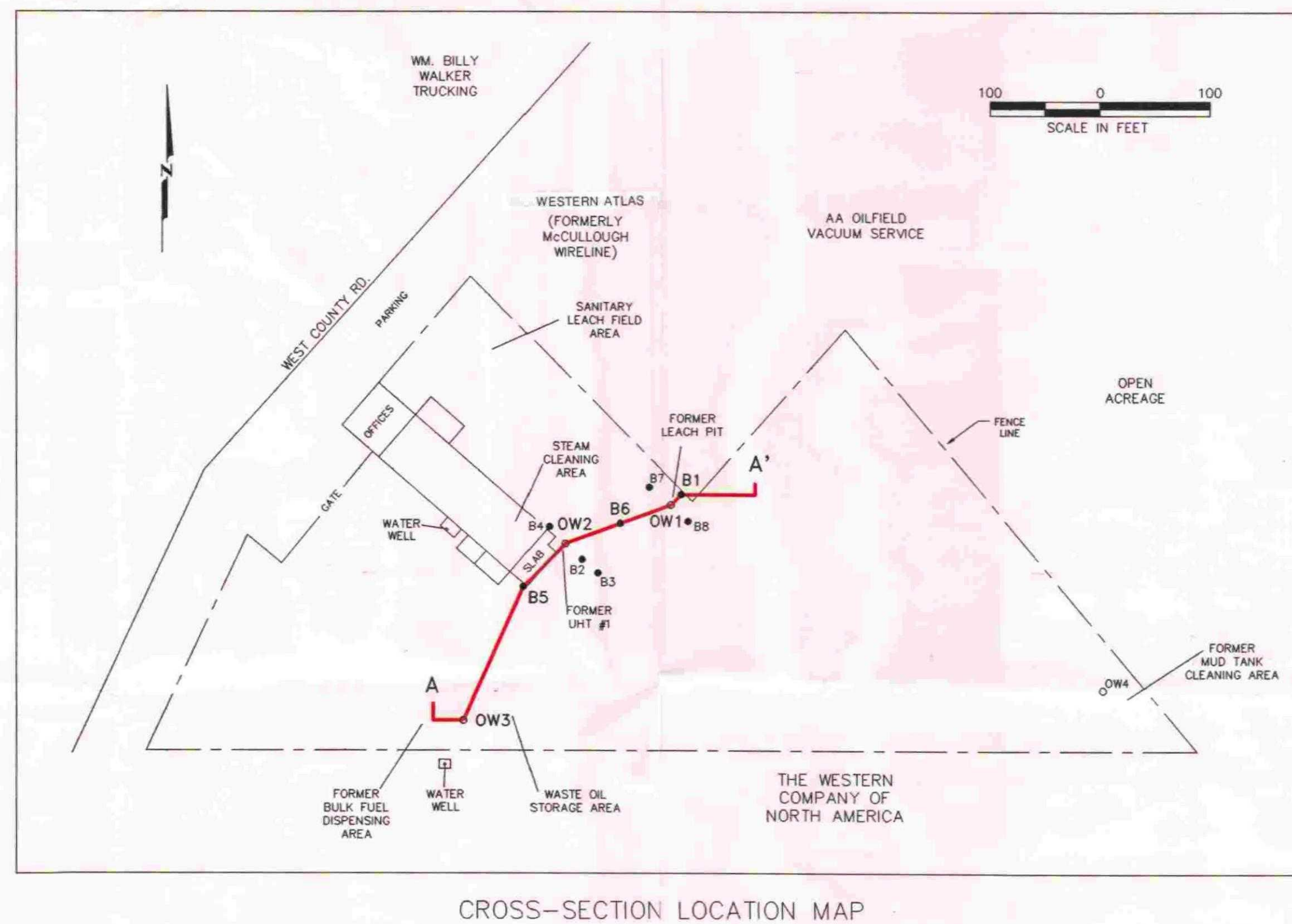
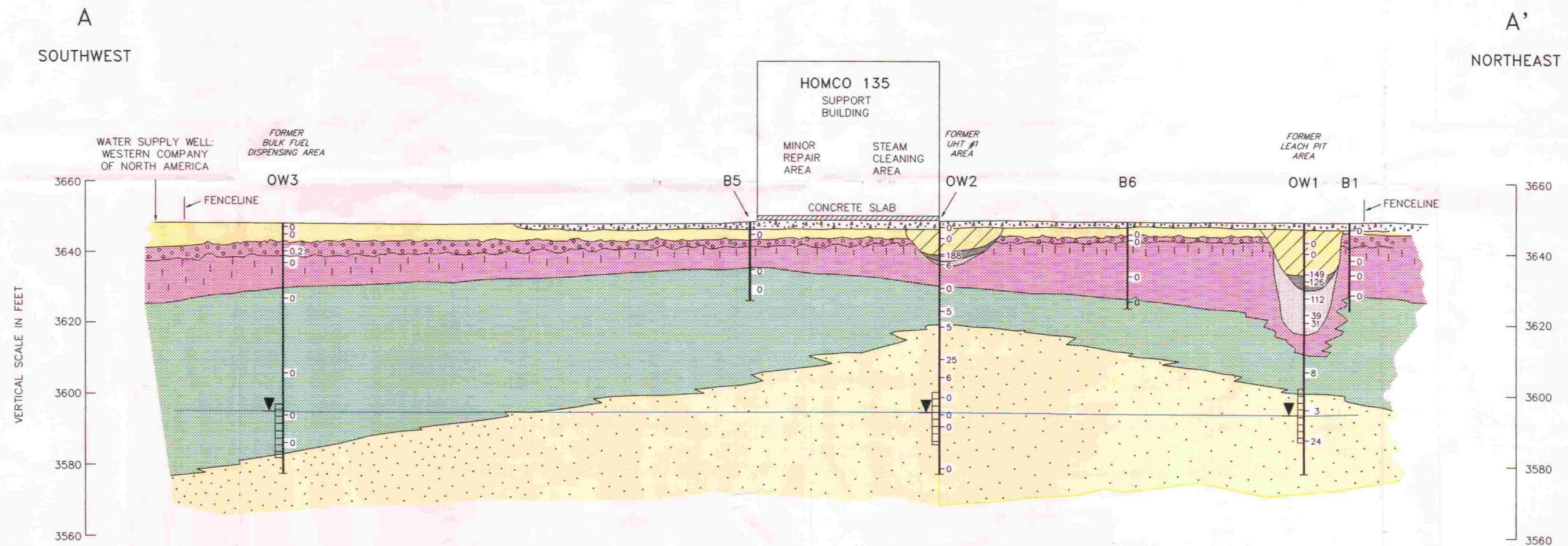
The Ogallala Formation lies unconformably on the Cretaceous Age Tucumcari Shale. The shale consists of fossiliferous, dark grey siltstones with thin stringers of brownish, sandy, limestone; greyish limestone; and sandstone. The Tucumcari ranges from 0 to 150 feet thick.

The Tucumcari Shale is underlain by Triassic age rocks. These include the Dockum Group of sandstones and shales, and Cretaceous age limestones. The upper portion of the Dockum Groups consists of reddish shales (interbedded with some limestones, sandstones and conglomerates) which are up to 1200 feet thick. The lower portion of the Dockum Group Consists of reddish sandstones (interbedded with some shales and limestones) which are up to 600 feet thick.

### 3.2 Site Geology

Appendix C presents the lithologic logs of borings and observation wells installed at the facility. These logs are summarized on Cross-Section A-A' (Figure 3-1). Average characters of the geologic units encountered are described below.





- LEGEND
- FINE GRAINED TO MEDIUM GRAINED SAND FILL, HOMOGENEOUS, TAN BROWN
  - SAND AND GRAVEL FILL
  - SILTY, FINE GRAINED TO MEDIUM GRAINED SAND, HOMOGENEOUS, DARK BROWN TO WHITE
  - WEATHERED CALICHE, RANGES FROM CALICHE RESIDUE TO CALICHE WHICH CRUMBLES EASILY
  - CALICHE, VUGGY TO MASSIVE, WITH HORIZONTAL AND VERTICAL FRACTURES
  - CALICHE IN WHICH FRACTURES ARE HEALED WITH GYPSUM & CALCITE
  - DEGRADED CALICHE, CRUMBLES EASILY, STAINED BLACK AND GREY, WET
  - STAINED CALICHE, RETAINS NATURAL CHARACTER BUT STAINED BLACK ALONG FRACTURES
  - CALCITE CEMENTED, VERY FINE GRAINED TO MEDIUM GRAINED SANDSTONE, FRIABLE, MEDIUM BROWN TO RED
  - VERY FINE GRAINED TO MEDIUM GRAINED SAND, HOMOGENEOUS, MEDIUM TAN TO RED
  - WATER TABLE

20 0 20 40  
VERTICAL & HORIZONTAL SCALE IN FEET

▼ STATIC WATER LEVEL ON JULY 17, 1991  
— SCREENED INTERVAL OF OBSERVATION WELL  
— 0 — RESULT OF HEADSPACE ANALYSIS (OVM UNITS)  
— TOTAL DEPTH OF BORING

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FIGURE 3-1  
CROSS-SECTION A-A'  
HOMCO SITE NO. 135  
HOBBS, NEW MEXICO

DRAWN BY: L. GAMBLE	DATE: 10-1-91	PROJECT NUMBER:
CHK'D BY: DWD	REVISED:	3519-010-435



### **3.2.1 Description of Fill Materials**

Areas of the site which receive significant truck traffic are immediately underlain by gravel fill. The gravel ranges from absent to 2 feet thick, averaging 1.2 feet thick. The gravel is composed of crushed caliche and is dry and white.

Areas of the site which do not receive significant traffic (e.g., the areas of OW3 and OW4) are immediately underlain by fine to coarse grained sand fill. The sand ranges from 0.5 to 2 feet thick. The sand is composed of quartz grains and calcareous material. It is poorly graded, loose, dry, and tan to white. In places, the sand is coated with a "waxy" material referred to as paraffin by facility personnel.

The areas of the Former Leach Pit (OW1), the Former UHT#1 (OW2), the Former Bulk Fuel Dispensing Area (OW3) and the Former Mud Tank Cleaning Area (OW4) were backfilled with very fine to medium grained sand after the Phase III remedial excavation. The sand ranges from 6.3 feet thick at OW4 to 13 feet thick at OW1. The base of the sand ranges from 8.3 feet below the surface at OW4 to 14.5 feet below the surface at OW1. The sand is well graded, sub-angular to sub-rounded, homogeneous, non-calcareous, composed of quartz grains, and is non-cohesive. The sand ranges from moist to wet at its base and occasionally contains black wood material. The color varies from tan to red-brown.

### **3.2.2 Description of First Natural Sand**

In areas which did not undergo remedial excavation, the gravel or sand fill is underlain by silty, very fine to fine grained sand. The top and the bottom of the sand average 1.5 and 5.4 feet below the surface, respectively. The sand ranges from 1 foot thick to 4.7 feet thick, averaging 3.9 feet thick. The sand is slightly cohesive, moderately graded; contains some caliche clasts (quantity increasing with depth); and is calcareous. The sand varies from dry to moist, and its color grades downward from dark brown to light tan or white. In the area of OW3, the sand contains some of the material identified as paraffin by facility personnel.

### **3.2.3 Description of Caliche**

The first natural sand or the fill is underlain by fractured, weathered and occasionally vuggy (full of cavities) caliche. The natural top of the caliche ranges from 5 to 6.5 feet below the surface. In the areas where remedial excavation occurred, the top of caliche now lies as deep as 14.5 feet below the surface (OW1). The base of the caliche has a gradational or interlayered contact with an underlying sandstone. Because of this, the bottom of the caliche varies widely from 8.5 to



37 feet below the surface. The caliche thickness ranges from 3.5 to 22.5 feet, averaging 12.2 feet.

The upper, weathered portion of the caliche is fractured, with manganese oxide and iron oxide stains along openings. The weathered material crumbles easily. The rock matrix between fractures varies from dense to vuggy with a grey color. The upper, highly weathered portion of the caliche averages less than two feet thick. Gypsum and calcite infilling causes most fractures (horizontal and vertical) to heal with depth. On the average, this healing occurs about 8 feet into the caliche.

In the areas of the Former Leach Pit and the Former UHT#1, upper portions of the caliche have been degraded by contaminant releases from those facilities. At OW1 (Former Leach Pit), degraded, crumbly, wet, black caliche extends from 14.5 to 27 feet below the surface. Black stains extend to 30 feet below the surface. At OW2 (Former UHT#1), degraded caliche extends from 9.5 to 11 feet below the surface. Staining extends to 12 feet below the surface.

#### **3.2.4 Description of the First Sandstone**

The caliche has a gradational or interlayered contact with an underlying, calcite cemented, quartz (>90%) matrix, very fine to medium grained sandstone. The top of the sandstone (or beginning of interlayering with the caliche) ranges from 8.5 to 37 feet below the surface. The sandstone base, which has a gradational or interlayered contact with an underlying sand, ranges from 29 to 65 feet below the surface. The sandstone averages 19.6 feet thick.

The sandstone is moderately to poorly cemented and friable. It is moderately graded with angular to rounded grains. Some layering is defined by cementation and color variations from light grey to pink-red. Occasional vertical and horizontal partings exist, infilled with calcite or gypsum.

#### **3.2.5 Description of the Second Natural Sand**

The first sandstone is underlain by very fine to medium grained sand. The top of the sand varies between 29 and 65 feet below the surface. None of the borings penetrated the base of the sand. The deepest penetration was 71 feet below the surface at the borings for OW1, OW2, and OW3. The sand is greater than 42 feet thick at OW2.

The sand consists of well graded, homogeneous, sub-rounded quartz grains (>90%). The sand includes some pebbles and occasional seams of calcite and gypsum. Some grains are coated with calcite. The color varies from medium tan to pink.



## 4.0 HYDROGEOLOGY

ENSR's understanding of the site hydrogeology has been derived from the data of four observation wells screened across the water table.

### 4.1 Regional Hydrogeology

Potable groundwater is found in two geologic formations in the vicinity of Hobbs, New Mexico: the Ogallala Formation and the Tucumcari Shale. The Tucumcari Shale is not considered an aquifer because of low well yields. The Ogallala is the major, regional aquifer. Groundwater in the Ogallala Aquifer is unconfined and usually occurs in semi-consolidated sands and gravels beneath the caliche caprock. In the Hobbs area, the water table averages 50 to 55 feet below the surface. Ogallala groundwater is usually suitable for domestic, irrigation and industrial uses.

Water levels in the Ogallala have declined steadily since 1929 in response to increasing pumpage and below-average rainfall.

The regional hydraulic gradient in the Ogallala ranges from 0.002 to 0.004 feet/feet from the northwest to the southeast. The average linear flow velocity is about 150 feet per year.

Natural discharge from the Ogallala includes evapotranspiration, springs/seeps, and groundwater flow out of considered areas. Artificial discharge from wells is used for irrigation, stock, rural-domestic, industrial and public water supply.

Natural recharge to the Ogallala includes precipitation infiltration through ephemeral drainages and surface depressions, and groundwater flow into a considered area. Artificial recharge includes infiltration from brine disposal pits, infiltration of irrigation water, and leach fields. In general, recharge is minimal in areas where the aquifer is covered by the caliche caprock. Declining water levels indicate that discharge exceeds recharge.

Water from the Ogallala generally has the following characteristic qualities:

- medium to high concentrations of total soluble salts;
- low concentrations of exchangeable sodium;
- high concentrations of silica (47 to 73 ppm);
- moderately high concentrations of calcium and magnesium; and
- very low concentrations of sulfate and chloride.

## 4.2 Site Specific Hydrogeology: Definition of the First Aquifer

The first aquifer underlying HOMCO Site 135 is the Ogallala Aquifer. The aquifer lies within the second natural sand and, at OW3, within the first sandstone. The aquifer is unconfined, with the water table residing approximately 53 feet below the surface. Boring logs suggest that the top of the capillary fringe is between 50 and 52 feet below the surface.

The local saturated thickness of the Ogallala was not determined during this investigation. However, the boring logs from the Western and HOMCO water supply wells indicate a saturated thickness of greater than 70 feet. Regional maps presented in Alexander and Nicholson (1954) and Ash (1963) indicate a saturated thickness of between 147 and 197 feet. According to Ash (1963), the Ogallala is underlain by the Tukumcari Shale.

## 4.3 Site Specific Hydrogeology: Groundwater Flow Directions and Rates

Figures 4-1 and 4-2 are water table contour maps for June 3 and July 17, 1991. Water levels in the observation wells declined 0.03 to 0.07 feet between June 3 and July 17, 1991.

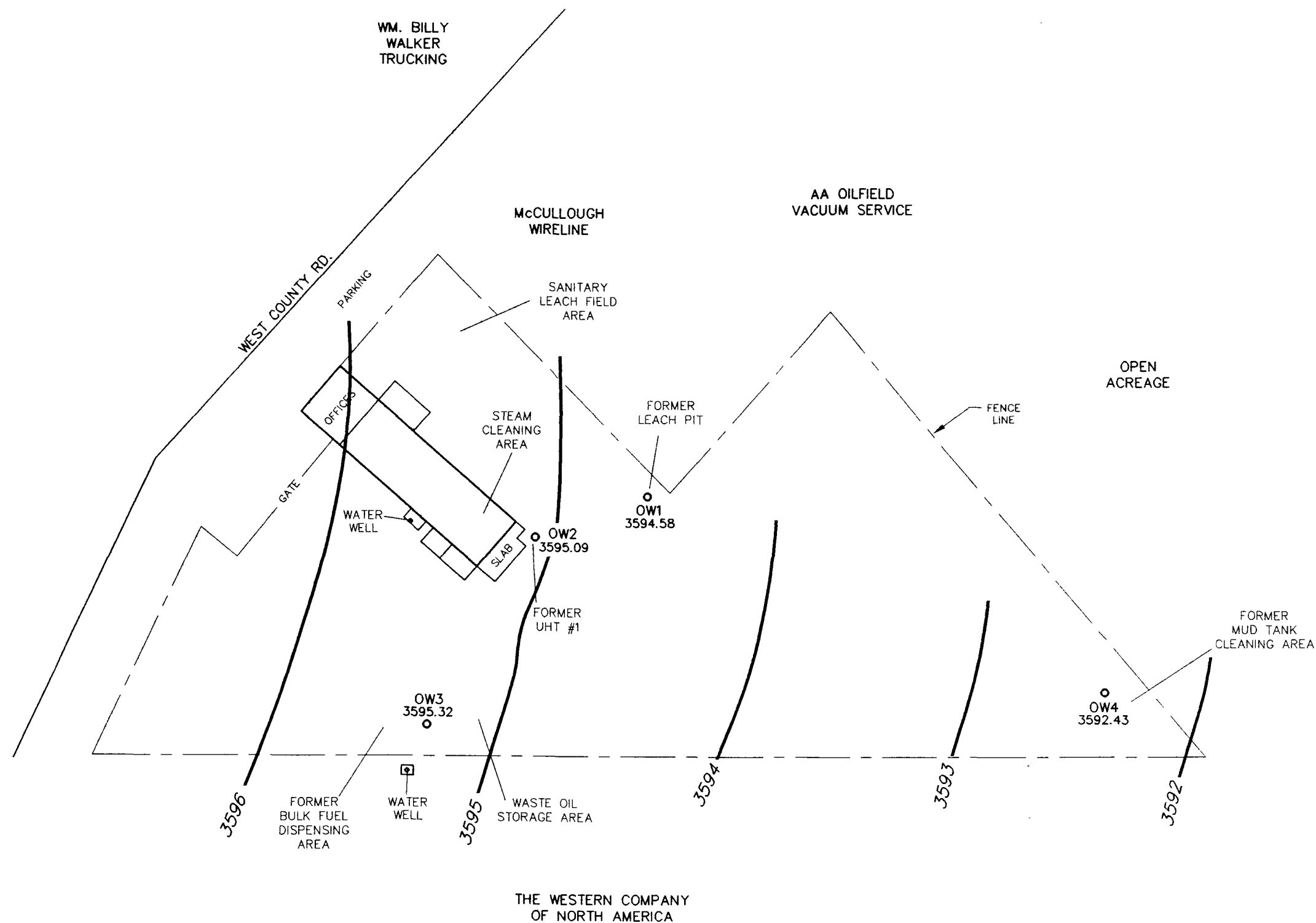
Assuming isotropic hydraulic conductivities (K), groundwater flows from the northwest to the southeast under an average hydraulic gradient of 0.00525 ft/ft. These findings correspond well with the regional potentiometric surfaces presented in Alexander and Nicholson (1954) and Ash (1963). Local groundwater flow at the water table does not appear to be influenced by pumpage from the Western water supply well or by pumpage from the HOMCO water supply well (Figures 4-1 and 4-2). According to site personnel, the HOMCO water supply well is 120 feet deep, with the pump at 80 feet below the surface.

Average linear groundwater flow velocities were calculated using the following modification of Darcy's Equation (Freeze and Cherry, 1979):

$$V = \frac{K (\text{Grad } H)}{n_e}$$

where: V: average linear velocity (length/time)  
 K: hydraulic conductivity (length/time), Table 2-8  
 Grad H: hydraulic gradient (length/length), Figs. 4-1,-2  
 $n_e$ : effective porosity (unitless), Table 2-5

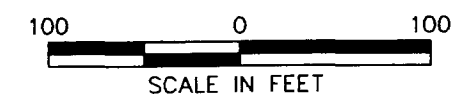
The average linear flow velocity was estimated to vary between 16 and 48 feet/year, with an average rate of 31 feet/year.



# LEGEND:

- OW3 3595.32 ○ - OBSERVATION WELL LOCATIONS WITH WATER ELEVATION
- LINE OF EQUAL WATER TABLE ELEVATION (FT. MSL)
- UHT - UNDERGROUND HOLDING TANK
- - - FENCE LINE

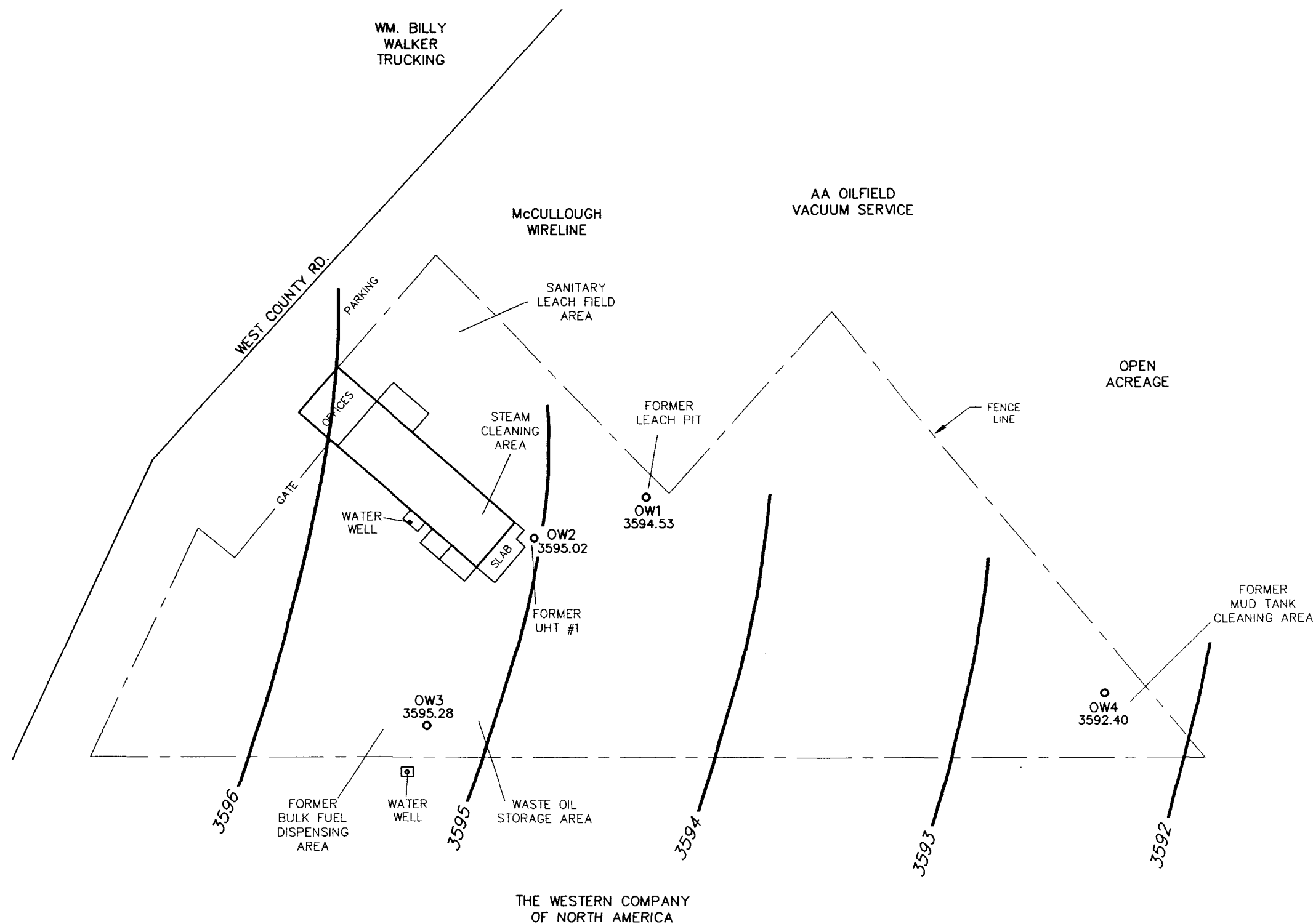
NOTE:  
ELEVATIONS FROM U.S.G.S. 1969 DATUM  
COORDINATES ARE WITHIN A SITE COOR-  
DINATE SYSTEM. SITE NORTH EQUALS  
TRUE NORTH.



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Figure 4-1  
WATER TABLE ELEVATIONS  
JUNE 3, 1991  
HOMCO SITE No. 135  
HOBBS, NEW MEXICO

DRAWN: SJF	DATE: 8-6-91	PROJECT NUMBER:
APPV'D:	REVISED:	3519-010-435



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Figure 4-2  
WATER TABLE ELEVATIONS  
JULY 17, 1991  
HOMCO SITE No. 135  
HOBBS, NEW MEXICO

DRAWN: SJF	DATE: 8-6-91	PROJECT NUMBER: 3519-010-435
APPVD:	REVISED:	

#### 4.4 Site Specific Hydrogeology: Recharge and Discharge

Past recharge to the Ogallala Aquifer at HOMCO included discharge from the Leach Pit, and regional groundwater inflow to the area. The lithologic log for OW1 (Appendix C) indicates that some recharge from the Leach Pit perched on the first natural sand/caliche interface (now 14 feet below the surface) before percolating down to the water table. However, the logs from surrounding borings (B1, B6, B7, B8) indicate no significant lateral movement of the perched water. The Leach Pit was removed in February 1991. Precipitation provides very little recharge because the mean annual evaporation rate (107.5 inches, Class A Pan) is much greater than the mean annual precipitation rate (12.94 inches) (U.S. Dept. of Commerce, 1979) and no ephemeral streams beds are nearby to facilitate infiltration.

Local groundwater discharge avenues include groundwater flow away from the site and pumpage from the HOMCO and Western water supply wells. Evapotranspiration is negligible due to:

- the depth of the water table (53 feet),
- the caliche caprock, and
- the lack of local vegetation.

#### 4.5 Background Groundwater Quality

Observation wells were not installed up gradient of HOMCO. However, the HOMCO water supply well is upgradient of the investigated area (Figures 4-1 and 4-2). According to site personnel, the HOMCO well is screened between 80 feet and 120 feet below the surface. ENSR sampled the well (before tanks and filters in the distribution system) on July 18, 1991. Volatile and semi-volatile organic compounds were not detected in the water (see Section 2.3). ENSR also obtained a tap-water sample of the water in Fall, 1990. Analyses of the water indicated that no Primary or Secondary Drinking water standards were exceeded in the sample. The analyzed concentrations of the later sample are presented in the Proposed Closure/Remedial Action Plan (October 1990). However, those results do not reflect the actual groundwater quality because the HOMCO water distribution system includes filters and water softeners.





## 5.0 DISTRIBUTIONS OF ORGANIC COMPOUNDS IN SOILS

This section summarizes the results of soil chemical analyses, and it presents conclusions relating to lateral and vertical migration of organic compounds in soils at HOMCO.

### 5.1 Compounds Not Related to Activities in the Investigated Areas

Some compounds were detected sporadically in soils at different locations. These chemicals were:

tricosane	tetracosane	heneicosane	eicosane
docosane	dodecane	tridecane	tetradecane

These alkanes are not on the Target Compound List from the U.S.E.P.A Contract Laboratory Program Statement of Work (10/86, Rev 7/87), and their identification under the SW-846 8270 method is not required. However, the compounds were identified to fully understand the nature of releases at this facility. These alkanes are often components of a semi-solid material called Petrolatum (Merck Index 1989). Petrolatum is used in lubricants and rust preventatives such as Petroleum Jelly, paraffin jelly and Vaseline. The compounds have the following characteristics:

- They are insoluble in water and alcohol (Remington's Pharmaceutical Sciences, 1980; Merck Index, 1989).
- Petrolatum has a low toxicity as evidenced by its use as a mild laxative, a base for ointments, a base for burn dressings and as a vehicle for inhaled drugs. The last use has been discontinued because it possibly causes lipid pneumonia (Remington's Pharmaceutical Sciences, 1980).

The insolubility of these compounds was locally verified by their absence in groundwater samples (see Section 6.0). The presence of these compounds in soils has been attributed to general site operation.

Methylene chloride was detected in B7 (16  $\mu\text{g}/\text{kg}$ ), OW2 (2780  $\mu\text{g}/\text{kg}$ ) and at B8 (12.5  $\mu\text{g}/\text{kg}$ ). Di-N-butylphthalate (1100  $\mu\text{g}/\text{kg}$ ) was detected at B8. Acetone (186  $\mu\text{g}/\text{kg}$ ) was detected at B7. Apparent methylene chloride, Di-N-butylphthalate and acetone detections are commonly due to laboratory contamination (U.S. EPA, 1988). Although these compounds were not detected in

blank analyses (TB4, Appendix I), laboratory contamination of soil samples is still possible because of variations in:

- dilution factors,
- sources of dilution water,
- extraction procedures, and
- ambient laboratory conditions (U.S. EPA, 1988).

Additionally, it should be noted that "soil" analyses were performed on extracts, whereas blank analyses were performed on distilled water which did not undergo the extraction process. Therefore, it is possible that the extraction process was a source of the compounds. The "single hit" nature of these compounds, plus the absence of these compounds in groundwater has led to ENSR's conclusion that the compounds detections were probably due to sampling or laboratory contamination. This conclusion was stated in a July 22, 1991 letter from ENSR to OCD. The conclusion was approved in a July 31, 1991 response letter from the OCD to ENSR (Appendix A).

Carbon disulfide was detected in B7 at 5.4  $\mu\text{g}/\text{kg}$ . This compound was not detected in any other samples, and its source is not known. However, the detected concentration, (just above the detection limit of 5  $\mu\text{g}/\text{kg}$ ), is not considered significant. This conclusion was stated in a July 22, 1991 letter from ENSR to OCD, and approved in a July 31, 1991 OCD response letter to ENSR (Appendix A).

## **5.2 Former Leach Pit Area**

The boring for OW1 was drilled through the center of the Former Leach Pit location to determine the depths to which released compounds have migrated. Borings B1, B6, B7 and B8 were located around the perimeter of the Former Leach Pit to determine if compounds have migrated laterally in soils above the water table.

### **5.2.1 Vertical Migration From the Former Leach Pit**

Table 2-4 (OW1) indicates that some toluene (2  $\mu\text{g}/\text{kg}$ ), ethylbenzene (38  $\mu\text{g}/\text{kg}$ ) and xylenes (290  $\mu\text{g}/\text{kg}$ ), along with TPH (1600 mg/kg) migrated past the base of remedial excavation to between 14.75 and 15.25 feet below the surface (within degraded caliche). Toluene and ethylbenzene were not detected in soils below that depth. Xylene was detected (8  $\mu\text{g}/\text{kg}$ ), near the detection limit (2  $\mu\text{g}/\text{kg}$ ), in a sample from 41 to 42 feet below the surface (OW1-12). However a duplicate analysis (OW1-12D) provided "non-detect" results. The maximum detected TPH concentration below 14.75 to 15.25 feet was 39 mg/kg at 17 to 18 feet in boring B8. This

concentration is considered to fall within the range of background concentrations. During a May 28, 1991 telephone conversation with Ms. Venable (ENSR), Mr. W. Olsen (OCD) indicated that TPH concentrations of less than 100 mg/kg were acceptable for soils at this site.

Various semi-volatile organic compounds, including the alkanes discussed in Section 5.1, were detected in a stained caliche sample from 18.6 to 23.6 feet below the surface (OW1-9). All detected compounds are insoluble in water under standard temperature and pressure conditions. Therefore, these materials probably migrated attached to solid (perhaps colloidal size) materials suspended in the Leach Pit discharge fluid. Detected compounds which were not discussed in Section 5.1 include heptanes, octanes, nonanes, decanes, undecanes, tetradecanes, cyclohexanes, heptadecanes, an ethyl-xylene, isopropylbenzenes, and naphthalenes. These compounds have the following traits in common:

- The compounds (excluding the naphthalenes) are not on the Target Compound List from the U.S.E.P.A Contract Laboratory Program Statement of Work (10/86, Rev 7/87), and their identification under the SW-846 8270 method is not required.
- The compounds are insoluble in water (Merck Index, 1976; Condensed Chemical Dictionary, 1981). This is verified by the fact that none of the compounds were detected in groundwater samples (Table 2-7).
- The compounds are used as solvents and degreasers.

Heneicosane was the only compound (volatile or semi-volatile) detected below 18.6 to 23.6 feet. The compound was detected (670  $\mu\text{g/kg}$ , at the water table) 52 to 54 feet below the surface (OW1-13). As expected, the compound was not detected in groundwater samples from OW1.

Staining of caliche by Leach Pit discharge fluids ended at 30 feet below the surface. However, headspace analyses provided elevated readings to the base of the boring for OW1 (see Figure 3-1). The elevated headspace readings may be attributed to sulfides which were smelled during drilling. The sulfides may have been produced by the Leach Pit discharge water by the following mechanism:

- The water dissolved natural gypsum providing sulfate as a nutrient for bacteria.
- The bacteria reduced the sulfate, producing sulfides (e.g. hydrogen sulfide).

From the findings discussed above, ENSR concludes that the maximum depth of volatile organic compound migration (in soils) was between 15 and 20 feet below the surface. The maximum depth of semi-volatile organic compound migration (in soils) was between 20 and 41 feet below the surface. The exception is heneicosane, which is a common, insoluble alkane with a very low toxicity (see Section 7.1).

### **5.2.2 Lateral Migration From the Former Leach Pit**

Borings B1, B6, B7, and B8 (see Figure 2-1) were drilled to determine whether lateral migration had occurred in shallow soils outside the area of remedial excavation. A review of the boring logs and Table 2-4 reveals that no visual, field screening or analytical evidence of lateral migration outside the area of remedial excavation were found during this investigation. The following facts summarize this finding:

- sampled soils had no odor and were not stained;
- All headspace measurements of soil samples from B1, B6, B7 and B8 were negative.
- The maximum detected TPH concentration was 39 mg/kg (B8-5, 17 to 18 feet below the surface). This concentration is considered to fall within the range of background concentrations. During a May 28, 1991 telephone conversation with Ms. D. Venable (ENSR), Mr. W. Olsen (OCD), indicated that TPH concentrations of less than 100 mg/kg were acceptable for soils at this site.
- With the exception of one carbon disulfide detection (B7-4, 5.4  $\mu\text{g/kg}$ ), no volatile organic compounds were detected. The carbon disulfide detection is discussed in Section 5.1.
- With the exception of one heneicosane detection (B6-3, 960  $\mu\text{g/kg}$ ), no semi-volatile organic compounds were detected. The heneicosane detection is discussed in Section 5.1.
- No topographic trends in the caliche surface were found (see Figure 3-1).

Based on this information, ENSR concludes that no significant lateral migration of compounds occurred in soils above the water table outside the area of the remedial Leach Pit excavation.

### **5.3 Former UHT#1 Area**

The boring for OW2 was drilled through the center of the Former UHT#1 location to determine the depths to which released compounds have migrated. Borings B2, B3, B4, and B5 were located around the perimeter of the Former UHT#1 sampled, and analyzed to determine if compounds had migrated laterally above the water table outside the area of the remedial UHT#1 excavation.

#### **5.3.1 Vertical Migration From the Former UHT#1**

Xylene and ethyl benzene (15  $\mu\text{g/kg}$  and 6  $\mu\text{g/kg}$ , OW2-10 at 39.5 to 40.5 feet below the surface) were the only detected volatile organic compounds, excluding methylene chloride, (see Section 5.1).

Table 2-4 indicates that a variety of semi-volatile organic compounds have migrated to the water table (53 feet below the surface) at OW2. These compounds include hexanes, heptanes, nonanes, decanes, undecanes and dodecanes. These compounds are:

- not on the USEPA Target Compound List (see Section 5.2.1),
- insoluble in water under normal temperature and pressure conditions, and
- often used as (or in) solvents and degreasers.

None of these compounds were detected in the groundwater samples.

From these data, ENSR concludes that some insoluble, semi-volatile organic compounds have migrated to the water table at the site of the Former UHT#1, but are not found in groundwater due to their insolubility. These compounds may have migrated while sorbed to colloidal materials.

#### **5.3.2 Lateral Migration From the Former UHT#1**

Borings B2, B3, B4 and B5 (see Figure 2-1) were drilled to determine if lateral migration had occurred in shallow soils outside the area of remedial excavation. Soil samples from B2 appeared to be unnaturally stained; therefore, Boring B3 was installed 20 feet to the south-east. Aside from the apparent soil staining in B2, no evidence of significant lateral migration outside the remedial excavation area was detected. The following facts summarize this finding:

- Soil samples had no odor or staining (except B2).

- All headspace analyses of soil samples from B2, B3, B4 and B5 were negative (see Appendix C).
- The maximum detected TPH concentration in soil samples from these borings was 35 mg/kg (B2-6 at 19.4 to 21 feet below the surface). This concentration is within the range of background concentrations. During a May 28, 1991 telephone conversation with Ms. D.Venable (ENSR), Mr. W.Olsen (OCD) indicated that TPH concentrations of less than 100 mg/kg were acceptable for soils at this site.
- Xylene (3  $\mu$ g/kg, B4-5 at 17.5 to 18.5 feet below the surface) was the only volatile compound detected. This concentration, which is just above the detection limit (2  $\mu$ g/kg), is not considered significant. This conclusion was stated in a July 22, 1991 letter from ENSR to OCD. The conclusion was approved in a July 31, 1991 response letter from OCD to ENSR (Appendix A).
- With the exception of heneicosane, tricosane and tetracosane detections, no semi-volatile organic compounds were detected. These alkane detections are discussed in Section 5.1.
- No topographic trends in the caliche surface were found (see Figure 3-1).

Based on this information, ENSR concludes that no significant lateral migration of compound has occurred in soils above the water table outside the area of UHT#1 remedial excavation.

#### **5.4 Former Bulk Fuel Dispensing Area**

The boring for OW3 was advanced south of the Former Bulk Fuel Dispensing Area to determine the types and concentrations of organic compounds in the soils. The following facts are summarized from Table 2-4 and Appendix C:

- The only detected odors and stains were in soils less than 8 feet below ground surface. The odors and stains were attributed to paraffin by facility personnel.
- One detection (0.2 units) was made by headspace analyses of a sample from 7 feet below the surface.
- No volatile compounds were detected in sampled soils.

- The maximum detected TPH concentration was 28 mg/kg (at 39.5-40.5 feet below the surface). This concentration is within the range of background concentrations. During a May 28, 1991 telephone conversation with Ms. D.Venable (ENSR), Mr. W. Olsen (OCD) indicated that TPH concentrations of less than 100 mg/kg were acceptable for soils at this site.
- Eicosane, heneicosane, docosane, tricosane and tetracosane were the only detected semi-volatile organic compounds. These alkanes are discussed in Section 5.1.

From these data, ENSR concludes that no compounds attributable to operation of the Former Bulk Fuel Dispensing Area are present in soils near the adjacent fenceline.

### **5.5 Former Mud Tank Cleaning Area**

The boring for OW4 was advanced through the center of the Former Mud Tank Cleaning Area to determine the types and concentrations of organic compounds in the soils. The following facts are summarized from Table 2-4 and Appendix C:

- The soils held no odors and were not stained.
- Headspace analyses were negative.
- No volatile compounds were detected in sampled soils.
- The maximum detected TPH concentration was 50 mg/kg (at 34 to 35 feet below the surface). This concentration is within the range of background concentrations. During a May 28, 1991 telephone conversation with Ms. D. Venable (ENSR), Mr. W. Olsen (OCD) indicated that TPH concentrations of less than 100 mg/kg were acceptable for soils at this site.
- Heneicosane, dodecane, tridecane and tetradecane were the only detected semi-volatile organic compounds. These alkanes are discussed in Section 5.1.

From these data, ENSR concludes that no compounds attributable to operation of the Former Mud Tank Cleaning Area remain in soils at OW4.





## 6.0 DISTRIBUTIONS OF ORGANIC COMPOUNDS IN GROUNDWATER

### 6.1 Former Leach Pit

Observation well OW1 was installed at the Former Leach Pit to determine the concentrations and types (if any) of organic compounds in groundwaters beneath that location. Two groundwater samples were submitted for chemical analyses.

Table 2-7 indicates that dissolved oxygen concentrations in waters from OW1 were lower than concentrations in waters from the other wells. Depleted dissolved oxygen is sometimes indicative of the presence of hydrocarbons. However, the magnitude of concentration difference between OW1 and the other wells could also be due to natural factors.

Data summarized on Table 2-7 indicate that no volatile organic compounds were detected in groundwaters beneath the Former Leach Pit. Several semi-volatile organic compounds were detected in the first sample collected from OW1. However, only one compound, di(2-ethylhexyl)adipate ( $2.5 \mu\text{g/l}$ ), was detected in the duplicate sample (OW1D). This compound is a common plasticizer. None of the compounds were detected in soil samples. The equipment blank (EB) was collected from the bailer used in well OW1. Volatile and semi-volatile organic compounds were not detected in the sample.

Potential reasons for the differences in analytical results are:

- the first OW1 sample was contaminated by the sampling or analytical processes;
- sample variability; or
- the concentrations are near the lower limits of analytical precision.

Table 6-1 summarizes the detected compounds, and compares the concentrations to regulatory limits. The concentrations of three compounds detected in the first sample from OW1 exceeded the listed regulatory limits: benzo(a)pyrene, dibenz(a,h)anthracene, and indeno(1,2,3,c,d)pyrene. These exceedances were not great, and the compounds were not detected in duplicate sample OW1D.

Table 6-2 summarizes potential chemical migration rates which were calculated using the geotechnical data of Table 2-5, average linear groundwater flow velocities, and empirical formulae relating to the partitioning of chemicals between soils and water. These calculations are

**TABLE 6-1**

**Comparison of Compounds Detected in Groundwater  
to Regulatory Limits  
HOMCO Site 135  
Hobbs, New Mexico**

Compound	Detected Concentration µg/l	OCD µg/l	MCL µg/l	MCLG µg/l
benzo(a)pyrene	0.86 (OW1) <0.04 (OW1D)	0.7	(.2)	(0)
benzo(g,h,i)perylene	1.2 (OW1) <0.1 (OW1D)	NS	NS	NS
gamma-chlordane	0.4 (OW1) <0.1 (OW1D)	NS	2	0
dibenz(a,h)anthracene	1.6 (OW1) <0.1 (OW1D)	NS	(.3)	(0)
di(2-ethylhexyl)adipate	33.4 (OW1) 2.5 (OW1D)	NS	(500)	(500)
heptachlor	0.17 (OW1) <0.04 (OW1D)	NS	0.4	0
2,2',4,4',5,6'-hexachlorobiphenyl	0.4 (OW1) <0.1 (OW1D)	1.0	NS	NS
indeno(1,2,3,c,d)pyrene	1.0 (OW1) <0.1 (OW1D)	NS	(.4)	(0)
methoxychlor	2.00 (OW1) <0.04 (OW1D)	NS	40	40
pyrene	0.76 (OW1) <0.02 (OW1D)	NS	NS	NS
endrin	1.7 (OW3)	NS	(2)	(2)

**0.86(OW1):** Indicates the detected concentration and the well from which the sample was obtained.

**NS:** Indicates that a Regulatory Limit has not been set.

**OCD:** refers to Standards for discharges onto or below the surface of the ground, New Mexico Water Quality Control Commission Regulations as Amended through November 25, 1988, Part 3, Water Quality Control.

**MCL and MCLG:** refer to maximum contaminant level and maximum contaminant level goal, respectively, as defined in: Drinking Water Regulations and Health Advisories, Office of Water, USEPA: 40 CFR, Parts 141, 142, 143, National Primary Drinking Water Regulations, Final Rule, Jan. 30, 1991: National Primary and Secondary Drinking Water Regulations, July 25, 1990.

**(0.2):** Indicates a proposed regulatory level

**TABLE 6-2**

**Summary of Estimated Chemical Migration Rates  
Soils and Groundwater Investigation  
HOMCO Site 135  
Hobbs, New Mexico**

Compound	Minimum Flow Rate (ft/year)	Maximum Flow Rate (ft/year)
benzo(a)pyrene	0.0015	0.022
benzo(g,h,i)perylene	0.00038	0.0011
gamma chlordane	0.0048	0.16
dibenz(a,h)anthracene	0.0040	0.040
di(2-ethylhexyl)adipate	No data available	No data available
heptachlor	0.35	1.04
2,2',4,4',5,6'-hexachlorobiphenyl	No data available	No data available
indeno(1,2,3,c,d)pyrene	0.00025	0.040
methoxychlor	0.10	13.25
pyrene	0.060	0.49
endrin	0.0029	1.16
<b>Notes</b>  1. Chemical migration is assumed to parallel groundwater flow towards the south-east. 2. Methods used to estimate chemical migration rates are described in Appendix N. 3. These estimated migration rates do not account for dispersion.		

presented in Appendix M. Table 6-2 demonstrates that all of the compounds detected in the first OW1 sample are, if present, significantly retarded by sorption in the Ogallala Aquifer.

Based on the inconclusive semi-volatile organic compound analytical results and the slow chemical migration rates, the following statements can be made:

- if present, the compounds originated from the Former Leach Pit or an alternate, very old source;
- if present, the compounds will not migrate laterally more than a few feet over the next few years; and
- if present, the compounds are near or below regulatory limits.

Because of this, ENSR does not consider this potential contamination to be significant. Up to 10 compounds may be present at low concentrations in groundwaters beneath the Former Leach Pit. However, duplicate analyses detected only one of these compounds, and at a concentration which was 2.5 orders of magnitude less than the proposed MCL and MCLG.

## **6.2 Former UHT#1**

Observation well OW2 was installed at the site of the Former UHT#1 to determine the concentrations and types (if any) of organic compounds in groundwater at that location. Data on Tables 2-4 and 2-7 indicate that some semi-volatile organic compounds are sorbed to soils at the water table, but none of these compounds are dissolved in groundwater due to their insoluble natures.

## **6.3 Former Bulk Fuel Dispensing Area**

Observation well OW3 was installed in the vicinity of the Former Bulk Fuel Dispensing Area to determine the concentrations and types (if any) of organic compounds in groundwater at that location. Data on Table 2-7 indicate that volatile organic compounds were not detected in groundwaters at that location. Endrin (1.7  $\mu\text{g/l}$ ) was the only detected semi-volatile organic compound. Data on Table 6-1 indicate that this concentration was below the proposed MCL and MCLG. Data on Table 6-2 indicate that the compound is significantly retarded by sorption in the Ogallala Aquifer. Endrin is an insecticide which is not found in fuels. Therefore, the compound is not attributed to operations at the Former Bulk Fuel Dispensing Area.

#### **6.4 Former Mud Tank Cleaning Area**

Observation well OW4 was installed to determine the concentrations and types (if any) of organic compounds in groundwater beneath the Former Mud Tank Cleaning Area. Data on Table 2-7 indicate that volatile and semi-volatile organic compounds were not detected at that location.

#### **6.5 HOMCO Water Supply Well**

The HOMCO water supply well was sampled (Sample WS) to determine if organic compounds are present in the Ogallala aquifer's deeper portions. Data on Table 2-7 indicate that volatile and semi-volatile compounds were not detected.

#### **6.6 Western Company of North America Water Supply Well**

Appendix A includes the summary of a March 19, 1991 telephone conversation between Ms. D. Venable (ENSR) and Mr. R. Anderson (OCD). During that conversation, Mr. Anderson relayed the analytical results from a February 7, 1991 sampling of the Western Company's water supply well. The sample was obtained from a 3-inch-diameter hose near the Western loading dock. Analyses detected benzene, ethylbenzene, toluene, and xylenes (BETX).

The March 1991 plan for this investigation included sampling of the Western well. ENSR was unable to obtain permission from Western to sample the well. However, ENSR has concluded that the detected BETX did not originate from any of the investigated areas. This conclusion is based on the following facts:

- None of the BETX compounds were detected in groundwaters beneath HOMCO.
- Xylenes and ethylbenzene were detected sporadically, above the water table and at low concentrations in soil samples. None of the BETX compounds were detected in soils at OW3, adjacent to the Western well.
- The Western well is not located hydraulically downgradient of any of the investigated areas. The well is cross gradient of the Former Leach Pit, the Former UHT#1 and the Former Bulk Fuel Dispensing Area. The well is upgradient of the Former Mud Tank Cleaning Area.



## **7.0 CONCLUSIONS AND RECOMMENDATIONS**

### **7.1 Compounds Not Related to Activities in the Investigated Areas**

Tricosane, tetracosane, heneicosane, eicosane, docosane, dodecane, tridecane and tetradecane were found to have sporadic distributions in soils around the facility. These compounds have been attributed to general site operation. No further sampling or remedial actions are considered necessary for the following reasons:

- The compounds are not on the Target Compound List from the U.S. EPA contract Laboratory Program Statement of Work(10/86, Rev 7/87).
- The compounds are insoluble in water and alcohol.
- The compounds have low toxicities.

The conclusion was supported by OCD's July 31 and August 6, 1991 letters to Mr. D. Dorrance (ENSR) which approved proposals (July 22 and July 30, 1991) to leave soils containing these compounds in place and uncovered (see Appendix A).

### **7.2 Former Leach Pit Area**

#### Soils

Soils underlying the Former Leach Pit were found to contain some volatile and semi-volatile compounds. The maximum depth of volatile organic compound penetration was between 15 and 20 feet below the surface. The maximum depth of semi-volatile organic compound penetration was between 20 and 41 feet below the surface (except heneicosane). No significant lateral migration of volatile or semi-volatile organic compounds was detected in soils (above the water table) outside the area of remedial excavation.

Based on these findings, ENSR recommended, in a July 22, 1991 to the OCD, that a 23-foot by 28-foot concrete slab be installed over the Former Leach Pit location. This slab, which will minimize infiltration of precipitation, was approved by the OCD in a July 31, 1991 letter to ENSR and it was installed in August 1991. ENSR proposes no further actions relating to soils around the Former Leach Pit.

## Groundwater

Volatile organic compounds were not detected in groundwaters from well OW1. Ten semi-volatile organic compounds were detected in an initial sample, but only one compound was detected in a duplicate sample. Three of the compounds detected in the first sample were found at concentrations exceeding final or proposed regulatory limits. These compounds are:

- benzo(a)pyrene,
- dibenz(a,h)anthracene, and
- indeno(1,2,3,c,d)pyrene.

The migration rates of all ten compounds (if present) in groundwater are significantly retarded by sorption in the aquifer.

Based on these conclusions, ENSR proposes the following activities:

- Sample well OW1 in January and July 1992. Analyze samples for semi-volatile organic compounds using EPA Method 600/4-88/039 525.
- Measure water levels from OW1, OW2, OW3 and OW4 in January and June 1992.
- After the second round of sampling and analyses, submit a letter report to OCD with recommendations.

### **7.3 Former UHT#1**

#### Soils

The maximum detected depth of penetration by volatile organic compounds (xylenes and ethyl benzene) was 39.5 to 40.5 feet below the surface. Some insoluble semi-volatile organic compounds have penetrated to the water table beneath the Former UHT#1. These compounds may have migrated while sorbed to colloidal materials.

No significant lateral migration of volatile or semi-volatile organic compounds occurred in soils (above the water table) outside the area of remedial excavation.

Based on these findings, ENSR recommended, in a July 22, 1991 to OCD, that a 20-foot by 28-foot concrete slab be installed over the Former UHT#1 location. This slab, which will minimize infiltration of precipitation and steam cleaning fluids, was approved by OCD in a July 31, 1991



letter to ENSR; it was installed in August 1991. ENSR proposes no further actions relating to soils around the Former UHT#1.

#### Groundwater

Volatile and semi-volatile organic compounds were not detected in groundwaters beneath the Former UHT#1. ENSR proposes no further actions relating to groundwaters in this area.

### **7.4 Former Bulk Fuel Dispensing Area**

#### Soils

No compounds attributable to operation of the Former Bulk Fuel Dispensing Area were detected in soils at that location. ENSR proposed, in a July 30, 1991 letter to OCD, that the ground surface in this area be graded to prevent rainfall runoff from leaving the HOMCO property. This proposal was approved in an August 6, 1991 letter from OCD to ENSR. The grading was performed in August 1991.

#### Groundwater

Endrin was detected in groundwaters beneath the Former Bulk Fuel Dispensing Area. This insecticide is not attributed to facility operations and the detected concentration was below the proposed MCL and MCLG. Therefore, ENSR proposes no further actions relating to groundwaters in that area.

### **7.5 Former Mud Tank Cleaning Area**

#### Soils

No compounds attributable to Former Mud Tank Cleaning Area operations were detected in soils. ENSR proposed, in a July 30, 1991 letter to OCD, that the ground surface in this area be graded to prevent rainfall runoff from leaving the HOMCO property. This proposal was approved in an August 6, 1991 letter from OCD to ENSR. The grading was performed in August 1991.

#### Groundwater

Volatile and semi-volatile organic compounds were not detected in groundwaters beneath the Former Mud Tank Cleaning Area. ENSR proposes no further actions relating to groundwaters in that area.

## **7.6 Western Company of North America Water Supply Well**

ENSR concludes that compounds detected in water samples from the Western well were not attributable to the investigated areas. Therefore, ENSR proposes no further actions relating to the waters from this well.



A

**APPENDIX A**  
**PERTINENT CORRESPONDENCE**



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

BRUCE KING  
GOVERNOR

February 25, 1991

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

CERTIFIED MAIL  
RETURN RECEIPT NO. P-327-278-081

Ms. Darlene Venable  
ENSR Consulting and Engineering  
3000 Richmond Avenue  
Houston, Texas 77098

RE: Improvement Plans and Specifications  
HOMCO Facility No. 135  
Hobbs, New Mexico

Dear Ms. Venable:

The Oil Conservation Division (OCD) has received your requests dated February 14, 1991, and February 20, 1991 for authorization to dispose of stockpiled excavated soils from the former underground holding tank (UHT), leach pit, and bulk fuel terminal areas. Verbal approval for the disposal of these soils was granted on February 14, 1991 and February 20, 1991. Verbal approval for backfilling these areas was also granted with the following actions as a requirement:

1. An observation well will be drilled to the water table at the site of the UHT and leach pit to ascertain if contaminants have migrated into the ground water. These wells may be required to be converted to monitor or recovery wells if analysis of the ground water indicates contamination.
2. Determination of the lateral extent of contamination beyond the excavation limits of the UHT and leach pit area through a coring or other investigation program approved by OCD.
3. A core sample analysis south of the bulk fuel terminal as close to the property line as practical to determine the concentration of contaminants exiting/entering your property.

Further actions may be required pending review of the analytical results. These acquired actions could include ground water remediation, insitu soil remediation and/or concrete/asphalt padding of contaminated areas:

Ms. Darlene Venable  
February 25, 1991  
Page -2-

Please be advised this approval does not relieve HOMCO of liability should their operation result in actual pollution of surface or ground water or the environment actionable under other laws and/or regulations.

If you have any questions, please contact me at (505) 827-5884.

Sincerely,



Roger C. Anderson  
Environmental Engineer

cc: Hobbs District Office

Summary of a March 19, 1991 Telephone  
Conversation From Mr. R. Anderson (OCD)  
to Ms. D. Venable (ENSR)

- The NM-OCD sampled the adjacent property owner's water well (The Western Company of North America) on February 7, 1991.
- The water sample was obtained from a 3-inch diameter hose located near the loading dock.
- The sample was analyzed for Benzene, Toluene, Ethyl Benzene, and Xylenes (BTEX) by two analytical procedures:
  - EPA SW-846 Method 8020 (Aromatic and Unsaturated Volatile Organics - Purgeable Aromatics by GC) and
  - EPA SW-846 Method 8240 (Volatile Organics - Purgeable Organics by GC/MS).

The following chart summarizes their findings:

EPA-8020 Analytes (mg/l)		EPA-8240 Analytes (mg/l)	NM-OCD Regulatory Limit State of New Mexico Water Quality Control Commission Regulations Part 3 Section 103 (mg/l)
B	0.130	0.230	0.01
T	0.160	0.220	0.75
E	0.005	<0.0072	0.75
X	0.040	0.520	0.62

The NM-OCD plans to resample Western's water well at the well head in the near future.





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

BRUCE KING  
GOVERNOR

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

April 26, 1991

CERTIFIED MAIL  
RETURN RECEIPT NO. P-327-278-115

Ms. Darlene Venable  
ENSR Consulting and Engineering  
3000 Richmond Avenue  
Houston, Texas 77098

RE: Contamination Investigation Workplan  
HOMCO Facility No. 135  
Hobbs, New Mexico

Dear Ms. Venable:

The Oil Conservation Division (OCD) has received and reviewed the Workplan for Soils and Groundwater Investigations, dated April 1991, for the above referenced facility. The workplan is approved with the following conditions:

1. On page 2-3, contains a procedure for obtaining an OVM headspace reading. The sealed jar containing the sample should be maintained at 15 C to 25 C and shaken vigorously for 30 to 60 seconds prior to obtaining a measurement. A copy of the UST soils policy is enclosed for your information.
2. Pages 2-5 and 3-3 mention "off-site" disposal of drill cuttings. The off-site disposal location for these wastes will require OCD approval.
3. The decontamination procedure on page 2-7 includes a hexane and acetone rinse.. Since an incomplete water rinse of the equipment can leave undesirable constituent carryover, a reagent grade alcohol should be used in place of acetone and hexane.

The above conditions were discussed with you on April 15, 1991.

Ms. Darlene Venable

April 26, 1991

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Please be advised that approval of this workplan does not limit Homco to the work proposed should the investigation fail to adequately define the extent of contamination related to Homco;s facility, nor does OCD approval relieve you of liability under any other laws and/or regulations.

If you have any questions, please contact me at (505) 827-5884.

Sincerely,

A handwritten signature in cursive script, reading "Roger C. Anderson". The signature is fluid and written in dark ink.

Roger C. Anderson  
Environmental Engineer

cc: Hobbs District Office

UST BUREAU SOIL GUIDELINES

Purpose: The UST Bureau soil guidelines are intended to provide additional details and clarification to the language concerning petroleum contaminated soils contained in the New Mexico Underground Storage Tank Regulations, Part XII. For reference, the appropriate sections of the UST Regulations are cited at the beginning of each section of the guidelines.

Applicability: These guidelines are divided into two parts. Part 1 describes procedures and action levels for determining if soil contaminated with petroleum products requires remediation. Part 2 describes remediation methods for soils which require cleanup.

PART 1 -- Procedures to measure soil contamination and evaluation of the measurement.

I. Procedures to determine if soils are "highly contaminated."  
(UST Regulations Section 1201G)

Highly contaminated soils are defined as soils which are saturated with any type of petroleum product. Two methods of determining this are:

A. Filter paper method

- 1) Place a sample of the soil on filter paper.
- 2) Observe the paper under the soil. If hydrocarbon is able to saturate the paper, the soil is highly contaminated.

B. Observation of physical properties

- 1) Study a sample of the soil for observable free petroleum product, moisture content, gross staining, and evidence of very strong odor. These physical properties are criteria which may be used to determine if the soil is highly contaminated.

II. Procedures for determining soil contaminant levels for gasoline. (UST Regulations Part XII, Appendix C.I)

For releases of gasoline, the following field or laboratory procedures for determination of the degree of contamination may be utilized:

#### A. Headspace field method

- 1) Fill a 0.5 liter/16 ounce or larger jar half full of sample.
- 2) Seal top with clean aluminum foil.
- 3) Ensure sample is at 15 to 25 degrees Celsius or approximately 60 to 80 degrees Fahrenheit. A warm water bath should be used if necessary to raise sample temperature to the acceptable range.
- 4) Aromatic hydrocarbon vapor concentrations must be allowed to develop in the headspace of the sample jar for 5 to 10 minutes. During this headspace development period, the sample should be shaken vigorously for a total of 1 minute.
- 5) Immediately pierce Al foil seal with probe of either a PID or FID organic vapor analyzer, and read the highest (peak) measurement. The instrument must be calibrated to assume a benzene response factor.

#### B. Laboratory Method

EPA Method 8240, or other method approved in advance by EID, such as EPA Method 8020.

##### Sampling procedure

- 1) Collect samples in clean air tight jars, preferably jars supplied by the lab which will conduct the analysis.
- 2) Cool and store samples on ice.
- 3) Following chain of custody procedures as necessary, promptly ship to lab for analysis.

III. Procedures for determining soil contaminant levels for diesel fuel, fuel oil, waste oil, kerosene, et cetera. (UST Regulations Part XII, Appendix C.II)

#### A. Laboratory Method

- 1) As diesel fuel, fuel oil, et cetera do not give accurate PID/FID field readings, laboratory analysis is necessary for measuring contamination at sites impacted by these products. EPA Method 418.1, or other equivalent method approved in advance by EID, must be

used to give a value for total petroleum hydrocarbons (TPH).

2) Sampling method

a. Collect samples in clean, air tight jars, preferably jars supplied by the lab which is to conduct the analysis.

b. Cool and store the samples on ice.

c. Following chain of custody procedures if necessary, promptly ship to lab for analysis.

IV. Evaluation of the measurement (action levels)

Action levels listed below apply directly for sites where soils are to be remediated in place or removed for treatment on the surface. Additionally, in the situation where a site has been contaminated with more than one type of petroleum product, the strictest action level will apply. If, for example, a site has combined gasoline and diesel fuel contamination, action levels for gasoline apply.

A. Highly contaminated soils (UST Regulations Section 1201G)

1) Soils which are determined to be highly contaminated either by the filter paper test or by observation of physical properties must be removed and remediated.

B. Gasoline and lighter hydrocarbons (UST Regulations Section 1209D(3)(a) )

1) Field headspace method

A measurement of 100 ppm or greater indicates that remedial action is necessary.

2) Laboratory method

If either the sum of all detected aromatics is greater than 50 ppm, or the benzene concentration is greater than 10 ppm, additional remediation is necessary.

C. Diesel fuel and heavier hydrocarbons (UST Regulations Section 1209D(3)(b) )

1) Laboratory method

A measurement of TPH greater than 100 ppm indicates

that further remediation at the site is necessary.

## PART 2 -- METHODS FOR REMEDIATION OF PETROLEUM CONTAMINATED SOILS

When a contaminated soil requires remediation according to standards set forth in Part 1 of the Soils Guidelines, it must be treated according to the criteria described below.

### I. Highly contaminated soils (UST Regulations Section 1209A-1209C)

A. Removal -- highly contaminated soils must be excavated from the ground to the maximum depth and horizontal extent practicable within 96 hours of discovery.

#### B. Treatment

1) Thin spreading -- the soils must be spread in a single layer no greater than six inches thick in a bermed area. If the depth to the seasonal high static water level is less than 100 feet, the soil must be placed in a level, bermed area on an impermeable barrier such as plastic sheeting or a concrete pad. All necessary precautions must be taken to prevent runoff of contaminants or the infiltration of contaminants below the ground surface. The soil should be turned or disced to enhance aeration approximately once every two weeks.

2) Other methods -- EID encourages other methods of soil remediation, including active soil aeration, bioremediation, and incineration. Alternatives to thin spreading must be proposed to EID for approval or disapproval prior to commencement of remediation activities. Soils which are temporarily stored prior to treatment must be kept on an impermeable barrier in a bermed area to prevent runoff or infiltration of contaminants.

C. Where highly contaminated soils remain beyond the horizontal or vertical extent of practicable excavation, they must be treated in place. The soil treatment system must be installed and operating within 45 days of discovery of the contamination. An active vapor venting system or other treatment system must be utilized. The method to be used must be capable of reducing contaminant levels in a timely manner. Venting systems are generally appropriate for volatile contaminants, such as gasoline, only. Heavier petroleum products generally require an alternative technique.

The soil treatment system must be evaluated for effectiveness within 30 days of system start up, and all necessary modifications must be completed within 15 days of the evaluation. The system output or another gauge of system effectiveness must be monitored monthly to track the reduction in contaminant levels. System operation and monthly monitoring may cease when the soil meets the standards outlined below in Part 2, Section III of the Soil Guidelines.

D. Report on soil treatment (UST Regulations Section 1209E)

1) A report describing the treatment of highly contaminated soils must be submitted to EID within 75 days of the discovery of the contamination. This report must be part of the hydrogeologic investigation report.

2) If a hydrogeologic report is not prepared, a separate report must be submitted to EID within 75 days of the discovery of the contamination. The report must describe the soil treatment system design, initial effectiveness, and any modifications made to the system.

II. Other contaminated soils (UST Regulations Section 1209 D(3) (a-b) )

Soils must be remediated which: 1) do not pass the test appropriate for the specific contaminant as described in Part 1 of the Soil Guidelines (either the field headspace or laboratory method for gasoline, or the laboratory method for diesel and other heavy products); 2) are located within 50 feet of the seasonal high static water table; and 3) are located where the underlying ground water contains 10,000 milligrams per liter or less total dissolved solids. Either of the methods described below can be used.

NOTE: Soils which are not highly contaminated (saturated) and are located greater than 50 feet above the seasonal high static water table do not need to be remediated. However, if the contaminated soil poses a threat of contamination to ground water due to percolation or seasonal fluctuations of the water table, the soil must be remediated (see UST Regulations Section 1209D (3) (a-b), and Part 2, Section III.A of the Soil Guidelines).

A. Removal and Treatment

1) Removal of soil -- contaminated soil must be removed until samples from the walls and bottom of the

excavation pass the contaminant specific action 1 given in Part 1 of the Soil Guidelines.

2) Treatment of removed soil

a) Thin spreading -- Following the guidelines given above in Part 2, Section I of the Soil Guidelines for the thin spreading of highly contaminated soils, the soil must be spread in lifts no greater than six inches thick. Previously stated requirements for berm impermeable barriers, depth to ground water, a periodic aeration must be followed.

b) Other treatment methods for soils which have been removed -- the UST Bureau encourages the use of other treatment methods for excavated soil such as enhanced soil aeration, bioremediation etc. The method must be proposed to EID for approval or disapproval prior to commencing remediation work.

B. Treatment in place -- The soil may be treated in place by a vapor venting system or any other means which is approved by EID. Venting systems are usually ineffective for the remediation of nonvolatile contaminants such as diesel fuel, heating oil, etc. EID encourages treatment in place, or at least on site, rather than moving the soil from one place to another.

As stated above in Part 2, Section I.C of the Soil Guidelines, requirements hold for system installation deadline, evaluation, and monitoring: The soil treatment system must be installed and operational within 45 days of discovery of the contamination. The system must be evaluated for effectiveness within 30 days of system start up and any necessary modifications must be made within 15 days of the system evaluation. Monthly monitoring of system output or another gauge of system effectiveness is necessary until the requirements of Soil Guidelines Section III below are met.

III. Termination of remedial action (UST Regulations Section 1209D)

Remedial action may be terminated when the criteria described below have been met.

A. Soil contamination must be reduced to a concentration which will not contaminate ground water through percolation (aquifer recharge) or as the water table rises and falls with seasonal fluctuations, and the soil is not a source of





22 July 1991

ENSR Consulting  
and Engineering  
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Houston, Texas 77098  
(713) 520-9900  
(713) 520-6802 (FAX)

Mr. Roger C. Anderson  
Environmental Engineer  
State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
Post Office Box 2088  
Santa Fe, New Mexico 87504

RE: Sizing of Concrete Slabs at Homco Site 135 in  
Hobbs, New Mexico

Dear Mr. Anderson:

This letter has been written in accordance with our telephone conversations of June 7 and June 26, 1991. In this letter, ENSR proposes sizes for concrete slabs to cover the areas of the former underground holding tank (UHT) and the former leach pit at Homco Site 135 in Hobbs, New Mexico. The proposals are supported by analytical data from soil samples collected during the recently completed soils and ongoing groundwater investigations (Figure 1). The Oil Conservation Division approved workplan for the investigation (March 1991) describes the methods used to collect and analyze soil samples.

A detailed description of the soil sampling program will be included in the final investigation report. This letter is submitted in advance of that report to facilitate approval and installation of the concrete slabs.

Proposed Size of Concrete Slab at Former UHT

ENSR proposes a slab size of 20 feet by 28 feet as depicted on Figure 2.

Figure 2 presents the concentrations of all detected compounds in soils from borings around the former UHT. The full list of analytical results is presented in Attachment 1. Attachment 1 is a preliminary presentation of the data. The analytical results have passed validation criteria of the 'Site Quality Assurance/Quality Control Plan (January, 1991) based in part on the draft document titled Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses (U.S.E.P.A, February 1, 1988). Details of validation procedures will be presented in the final report.

Several compounds were detected in soils outside the area of the proposed slab coverage (Figure 2). Xylenes were detected at 3

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Mr. Roger C. Anderson  
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ug/kg in boring B4 at 17.5-18.5 feet below the surface. This concentration, which is just above the detection limit of 2 ug/kg, is not considered significant.

Where detected, Total Petroleum Hydrocarbon (TPH) concentrations were at background levels.

The remaining compounds detected outside the proposed slab coverage area are tricosane, tetracosane, heneicosane, eicosane and docosane. These alkanes are often components of a semi-solid material called Petrolatum (Merck Index 1989). Petrolatum is used in lubricants and rust preventatives such as Petroleum Jelly, paraffin jelly and Vaseline. Coverage of the soils containing these compounds is not considered necessary for the following reasons:

- The compounds are not on the Target Compound List from the U.S.E.P.A Contract Laboratory Program Statement of Work (10/86, Rev. 7/87).
- The compounds are insoluble in water and alcohol (Remington's Pharmaceutical Sciences, 1980; Merck Index, 1989).
- Petrolatum has a low toxicity as evidenced by it's use in mild laxatives, as a base for ointments, as a base for burn dressings and as a vehicle for inhaled drugs. The last use has been discontinued because it possibly causes lipid pneumonia (Remington's Pharmaceutical Sciences, 1980).

#### Proposed Size of Concrete Slab at Former Leach Pit

ENSR proposes a slab size of 23 feet by 28 feet as depicted on Figure 3.

Figure 3 presents the concentrations of all detected compounds in soils from borings around the former UHT. The full list of analytical results is presented in Attachment 1. Analytical results have passed the validation criteria cited above.

Several compounds were detected in soils outside the area of the proposed slab coverage (Figure 3). Methylene chloride was detected at B7 (16 ug/kg) and at B8 (12.5 ug/kg). Di-N-butylphthalate (1100 ug/kg) was detected at B8. Acetone (186 ug/kg) and carbon disulfide (5.4 ug/kg) were detected at B7. Apparent methylene chloride Di-N-butylphthalate, and acetone detections are commonly due to laboratory contamination (U.S.E.P.A, 1988). Although these compounds were not detected in

# ENSR

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Mr. Roger C. Anderson  
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blank analyses (TB4), laboratory contamination of soil sample is still a possible source because of varying dilution factors, sources of dilution water, extraction procedures and changing ambient conditions in the laboratory (U.S.E.P.A, 1988). Additionally, it should be noted that "soil" analyses were performed on extracts whereas blank analyses were performed on distilled water which did not undergo the extraction process. Therefore, it is possible that the extraction process itself was a source of the contaminants. The source of carbon disulfide is not known. However, the detected concentration (5.4 ug/kg), which is just above the detection limit of 5 ug/kg, is not considered significant.

Where detected, Total Petroleum Hydrocarbon (TPH) concentrations were at background levels.

Heneicosane was also detected outside the proposed slab coverage area. Coverage of soils containing this alkane is not considered necessary for the reasons listed for the UHT area.

## Final Comments

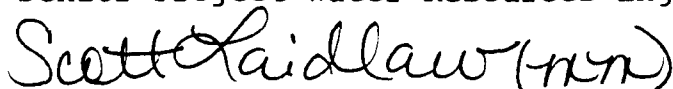
In this letter ENSR has recommended concrete slab sizes. Actual slab sizes may be greater than those recommended here to accomodate site operation. As I had indicated during our telephone conversations, HOMCO wishes to proceed with pouring the concrete slabs as soon as possible. If you have any questions, please contact me or Scott Laidlaw at (713) 520-9900. If you approve of the proposed slab sizes, please fax a response letter to me at the following address:

ENSR Consulting and Engineering  
Attn: David Dorrance  
3000 Richmond Ave.  
Houston, Texas 77098  
Fax: (713) 520-6802

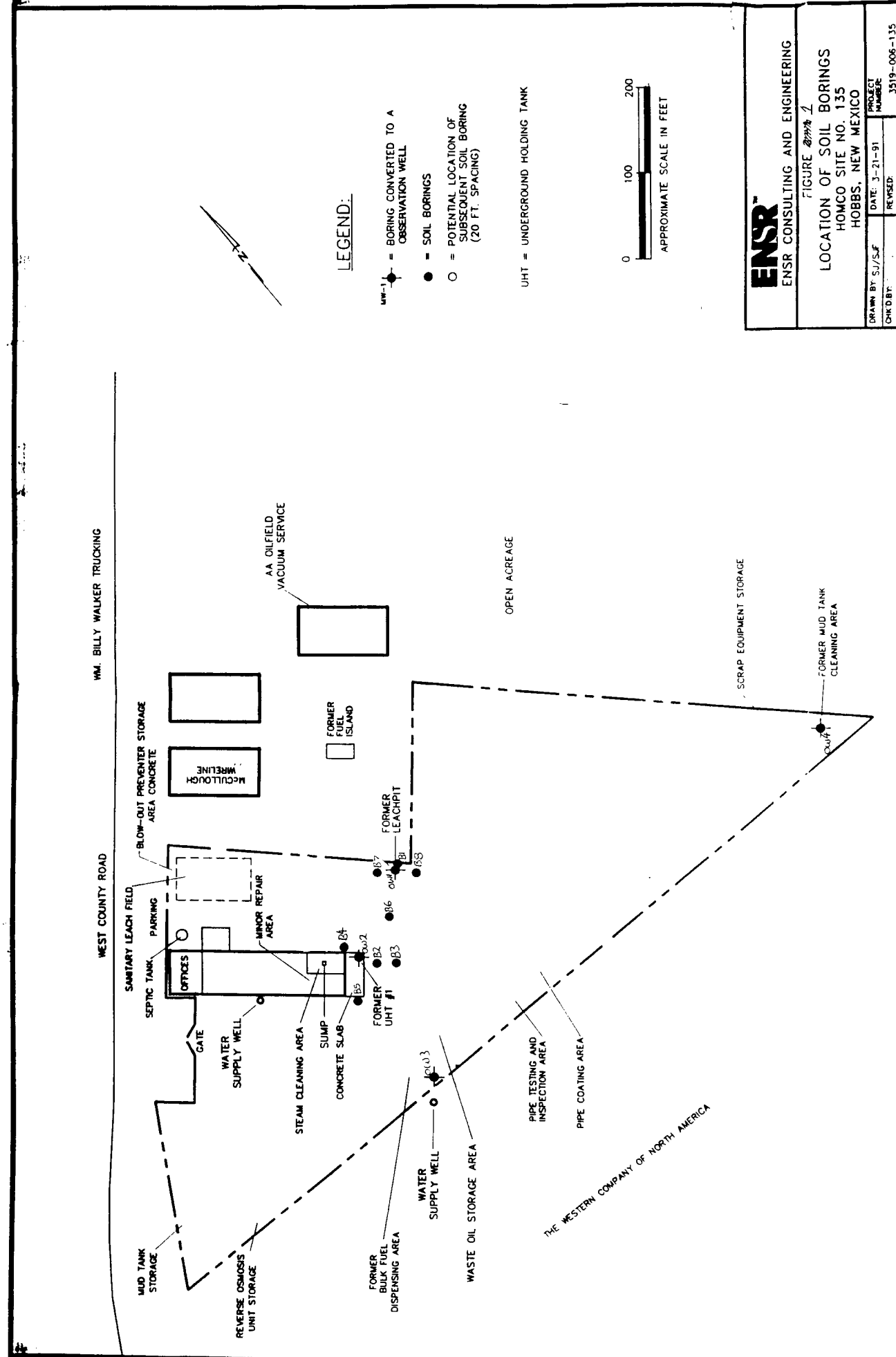
Sincerely,



David Dorrance  
Senior Project Water Resources Engineer



Scott Laidlaw  
Project Management and Administration





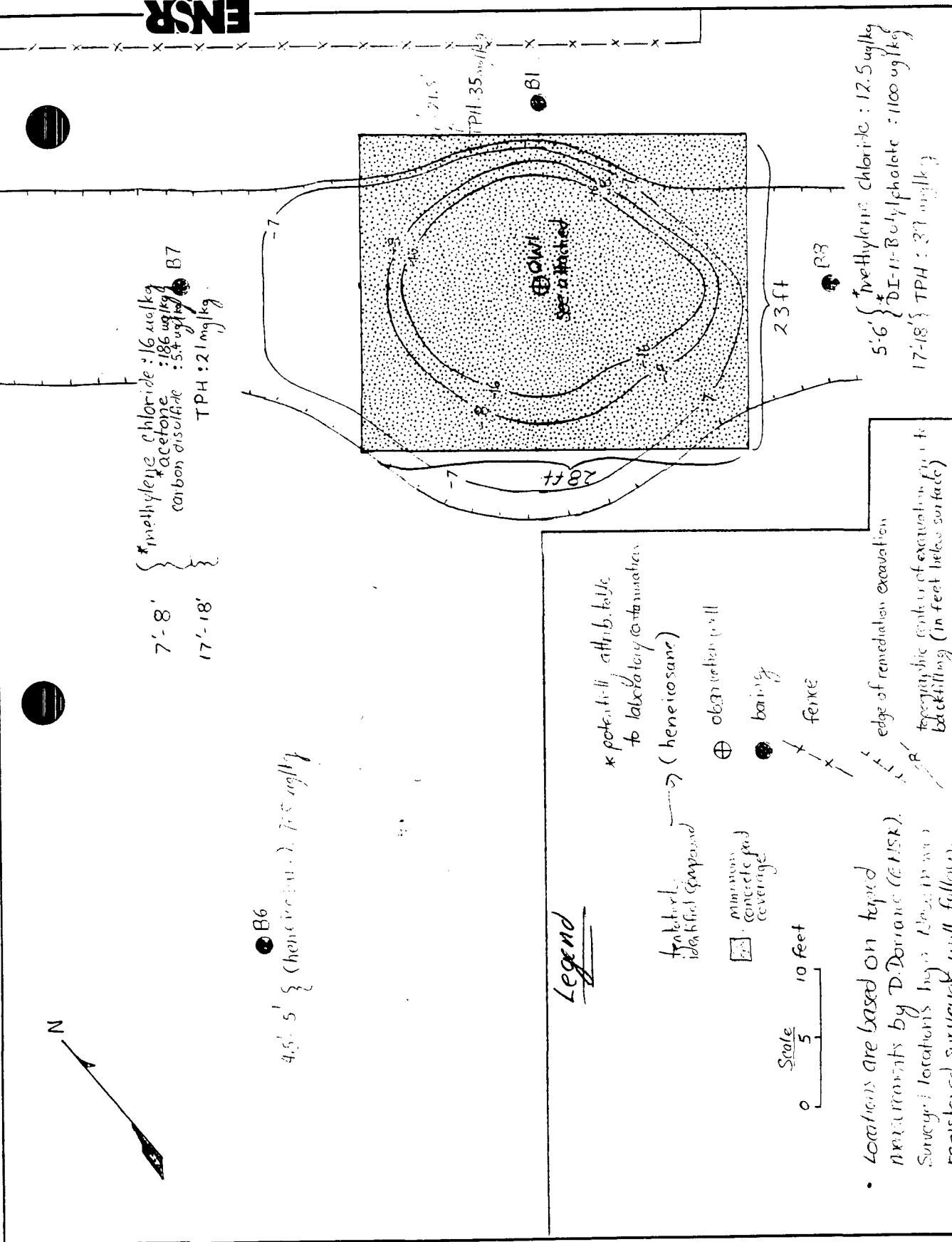


Figure 3

HOMCO - Hobbs, New Mexico

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FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B1-2	0'-2.5'	BENZENE	0.0000	UG/KG	< 2.00
B1-2	0'-2.5'	TOLUENE	0.0000	UG/KG	< 2.00
B1-2	0'-2.5'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
B1-2	0'-2.5'	XYLENES	0.0000	UG/KG	< 2.00
B1-2	0'-2.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
B1-2	0'-2.5'	TOTAL PETROLEUM HYDROCARBONS	0.0000	MG/KG	< 10.00
B1-2	0'-2.5'	TOTAL SOLIDS	91.0000	%	< 1.00
B1-7	14.0'-14.5'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
B1-7	14.0'-14.5'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	NITROBENZENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	ISOPHORONE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	NAPHTHALENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
B1-7	14.0'-14.5'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
B1-7	14.0'-14.5'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
B1-7	14.0'-14.5'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00

07/16/91

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B1-7	14.0'-14.5'	FLUORENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
B1-7	14.0'-14.5'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	PHENANTHRENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	ANTHRACENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	FLUORANTHENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	PYRENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	3,3'-DICHLOBENZIDINE	0.0000	UG/KG	< 1300.00
B1-7	14.0'-14.5'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	CHRYSENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	TOTAL SOLIDS	88.0000	%	< 1.00
B1-7	14.0'-14.5'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
B1-7	14.0'-14.5'	BROMOMETHANE	0.0000	UG/KG	< 10.00
B1-7	14.0'-14.5'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
B1-7	14.0'-14.5'	CHLOROETHANE	0.0000	UG/KG	< 10.00
B1-7	14.0'-14.5'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	ACETONE	0.0000	UG/KG	< 100.00
B1-7	14.0'-14.5'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	CHLOROFORM	0.0000	UG/KG	< 5.00



FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B1-7	14.0'-14.5'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	2-BUTANONE	0.0000	UG/KG	< 100.00
B1-7	14.0'-14.5'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	VINYL ACETATE	0.0000	UG/KG	< 50.00
B1-7	14.0'-14.5'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	BENZENE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	BROMOFORM	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
B1-7	14.0'-14.5'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
B1-7	14.0'-14.5'	2-HEXANONE	0.0000	UG/KG	< 50.00
B1-7	14.0'-14.5'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	TOLUENE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	STYRENE	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	XYLENES	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	PHENOL	0.0000	UG/KG	< 5.00
B1-7	14.0'-14.5'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
B1-7	14.0'-14.5'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
B1-7	14.0'-14.5'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
B1-7	14.0'-14.5'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B1-7	14.0'-14.5'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
B1-7	14.0'-14.5'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
B1-7	14.0'-14.5'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
B1-7	14.0'-14.5'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
B1-8	20.0'-21.5'	BENZENE	0.0000	UG/KG	< 2.00
B1-8	20.0'-21.5'	TOLUENE	0.0000	UG/KG	< 2.00
B1-8	20.0'-21.5'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
B1-8	20.0'-21.5'	XYLENES	0.0000	UG/KG	< 2.00
B1-8	20.0'-21.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
B1-8	20.0'-21.5'	TOTAL PETROLEUM HYDROCARBONS	35.0000	MG/KG	< 10.00
B1-8	20.0'-21.5'	TOTAL SOLIDS	87.0000	%	< 1.00
B2-3	4.8'-5.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
B2-3	4.8'-5.0'	BROMOMETHANE	0.0000	UG/KG	< 10.00
B2-3	4.8'-5.0'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
B2-3	4.8'-5.0'	CHLOROETHANE	0.0000	UG/KG	< 10.00
B2-3	4.8'-5.0'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	ACETONE	0.0000	UG/KG	< 100.00
B2-3	4.8'-5.0'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	CHLOROFORM	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	2-BUTANONE	0.0000	UG/KG	< 100.00
B2-3	4.8'-5.0'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	VINYL ACETATE	0.0000	UG/KG	< 50.00
B2-3	4.8'-5.0'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	BENZENE	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B2-3	4.8'-5.0'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	BROMOFORM	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
B2-3	4.8'-5.0'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
B2-3	4.8'-5.0'	2-HEXANONE	0.0000	UG/KG	< 50.00
B2-3	4.8'-5.0'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	TOLUENE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	STYRENE	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	XYLENES	0.0000	UG/KG	< 5.00
B2-3	4.8'-5.0'	PHENOL	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
B2-3	4.8'-5.0'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
B2-3	4.8'-5.0'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
B2-3	4.8'-5.0'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
B2-3	4.8'-5.0'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
B2-3	4.8'-5.0'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
B2-3	4.8'-5.0'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
B2-3	4.8'-5.0'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
B2-3	4.8'-5.0'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B2-3	4.8'-5.0'	NITROBENZENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	ISOPHORONE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	NAPHTHALENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
B2-3	4.8'-5.0'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
B2-3	4.8'-5.0'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
B2-3	4.8'-5.0'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	FLUORENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
B2-3	4.8'-5.0'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	PHENANTHRENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	ANTHRACENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	FLUORANTHENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	PYRENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	CHRYSENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B2-3	4.8'-5.0'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
B2-3	4.8'-5.0'	TOTAL SOLIDS	88.0000	%	< 1.00
B2-5	14.7'-16.9'	BENZENE	0.0000	UG/KG	< 2.00
B2-5	14.7'-16.9'	TOLUENE	0.0000	UG/KG	< 2.00
B2-5	14.7'-16.9'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
B2-5	14.7'-16.9'	XYLENES	0.0000	UG/KG	< 2.00
B2-5	14.7'-16.9'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
B2-5	14.7'-16.9'	TOTAL PETROLEUM HYDROCARBONS	11.0000	MG/KG	< 10.00
B2-5	14.7'-16.9'	TOTAL SOLIDS	84.0000	%	< 1.00
B2-6	19.4'-21.0'	BENZENE	0.0000	UG/KG	< 2.00
B2-6	19.4'-21.0'	TOLUENE	0.0000	UG/KG	< 2.00
B2-6	19.4'-21.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
B2-6	19.4'-21.0'	XYLENES	0.0000	UG/KG	< 2.00
B2-6	19.4'-21.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
B2-6	19.4'-21.0'	TOTAL PETROLEUM HYDROCARBONS	35.0000	MG/KG	< 10.00
B2-6	19.4'-21.0'	TOTAL SOLIDS	85.0000	%	< 1.00
B3-3	5.0'-5.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
B3-3	5.0'-5.5'	TOTAL SOLIDS	90.0000	%	< 1.00
B3-3	5.0'-5.5'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
B3-3	5.0'-5.5'	BROMOMETHANE	0.0000	UG/KG	< 10.00
B3-3	5.0'-5.5'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
B3-3	5.0'-5.5'	CHLOROETHANE	0.0000	UG/KG	< 10.00
B3-3	5.0'-5.5'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	ACETONE	0.0000	UG/KG	< 100.00
B3-3	5.0'-5.5'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	CHLOROFORM	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B3-3	5.0'-5.5'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	2-BUTANONE	0.0000	UG/KG	< 100.00
B3-3	5.0'-5.5'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	VINYL ACETATE	0.0000	UG/KG	< 50.00
B3-3	5.0'-5.5'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	BENZENE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	BROMOFORM	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
B3-3	5.0'-5.5'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
B3-3	5.0'-5.5'	2-HEXANONE	0.0000	UG/KG	< 50.00
B3-3	5.0'-5.5'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	TOLUENE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	STYRENE	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	XYLENES	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	PHENOL	0.0000	UG/KG	< 5.00
B3-3	5.0'-5.5'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
B3-3	5.0'-5.5'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
B3-3	5.0'-5.5'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B3-3	5.0'-5.5'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
B3-3	5.0'-5.5'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
B3-3	5.0'-5.5'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
B3-3	5.0'-5.5'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
B3-3	5.0'-5.5'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
B3-3	5.0'-5.5'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	NITROBENZENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	ISOPHORONE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	NAPHTHALENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
B3-3	5.0'-5.5'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
B3-3	5.0'-5.5'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
B3-3	5.0'-5.5'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	FLUORENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
B3-3	5.0'-5.5'	N-NITROSDIPHENYLAMINE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B3-3	5.0'-5.5'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	PHENANTHRENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	ANTHRACENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	FLUORANTHENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	PYRENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
B3-3	5.0'-5.5'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	CHRYSENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
B3-3	5.0'-5.5'	HENEICOSANE	830.0000	UG/KG	< 0.00
B3-5	15.5'-16.0'	BENZENE	0.0000	UG/KG	< 2.00
B3-5	15.5'-16.0'	TOLUENE	0.0000	UG/KG	< 2.00
B3-5	15.5'-16.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
B3-5	15.5'-16.0'	XYLENES	0.0000	UG/KG	< 2.00
B3-5	15.5'-16.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
B3-5	15.5'-16.0'	TOTAL PETROLEUM HYDROCARBONS	0.0000	MG/KG	< 10.00
B3-5	15.5'-16.0'	TOTAL SOLIDS	87.0000	%	< 1.00
B4-3	4.0'-5.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
B4-3	4.0'-5.0'	TOTAL SOLIDS	88.0000	%	< 1.00
B4-3	4.0'-5.0'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
B4-3	4.0'-5.0'	BROMOMETHANE	0.0000	UG/KG	< 10.00
B4-3	4.0'-5.0'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
B4-3	4.0'-5.0'	CHLOROETHANE	0.0000	UG/KG	< 10.00
B4-3	4.0'-5.0'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	ACETONE	0.0000	UG/KG	< 100.00



FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B4-3	4.0'-5.0'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	CHLOROFORM	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	2-BUTANONE	0.0000	UG/KG	< 100.00
B4-3	4.0'-5.0'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	VINYL ACETATE	0.0000	UG/KG	< 50.00
B4-3	4.0'-5.0'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	BENZENE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	BROMOFORM	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
B4-3	4.0'-5.0'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
B4-3	4.0'-5.0'	2-HEXANONE	0.0000	UG/KG	< 50.00
B4-3	4.0'-5.0'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	TOLUENE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	STYRENE	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	XYLENES	0.0000	UG/KG	< 5.00
B4-3	4.0'-5.0'	PHENOL	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B4-3	4.0'-5.0'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
B4-3	4.0'-5.0'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
B4-3	4.0'-5.0'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
B4-3	4.0'-5.0'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
B4-3	4.0'-5.0'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
B4-3	4.0'-5.0'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
B4-3	4.0'-5.0'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
B4-3	4.0'-5.0'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
B4-3	4.0'-5.0'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	NITROBENZENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	ISOPHORONE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	NAPHTHALENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
B4-3	4.0'-5.0'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
B4-3	4.0'-5.0'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
B4-3	4.0'-5.0'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B4-3	4.0'-5.0'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	FLUORENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
B4-3	4.0'-5.0'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	PHENANTHRENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	ANTHRACENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	FLUORANTHENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	PYRENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	3,3'-DICHLOBENZIDINE	0.0000	UG/KG	< 1300.00
B4-3	4.0'-5.0'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	CHRYSENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
B4-3	4.0'-5.0'	TRICOSANE	780.0000	UG/KG	< 0.00
B4-3	4.0'-5.0'	TETRACOSANE	780.0000	UG/KG	< 0.00
B4-5	17.5'-18.5'	BENZENE	0.0000	UG/KG	< 2.00
B4-5	17.5'-18.5'	TOLUENE	0.0000	UG/KG	< 2.00
B4-5	17.5'-18.5'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
B4-5	17.5'-18.5'	XYLENES	3.0000	UG/KG	< 2.00
B4-5	17.5'-18.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
B4-5	17.5'-18.5'	TOTAL PETROLEUM HYDROCARBONS	0.0000	MG/KG	< 10.00
B4-5	17.5'-18.5'	TOTAL SOLIDS	87.0000	%	< 1.00
B5-4	6.0'-6.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
B5-4	6.0'-6.5'	TOTAL SOLIDS	90.0000	%	< 1.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
85-4	6.0'-6.5'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
85-4	6.0'-6.5'	BROMOMETHANE	0.0000	UG/KG	< 10.00
85-4	6.0'-6.5'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
85-4	6.0'-6.5'	CHLOROETHANE	0.0000	UG/KG	< 10.00
85-4	6.0'-6.5'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	ACETONE	0.0000	UG/KG	< 100.00
85-4	6.0'-6.5'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	CHLOROFORM	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	2-BUTANONE	0.0000	UG/KG	< 100.00
85-4	6.0'-6.5'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	VINYL ACETATE	0.0000	UG/KG	< 50.00
85-4	6.0'-6.5'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	BENZENE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	BROMOFORM	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
85-4	6.0'-6.5'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
85-4	6.0'-6.5'	2-HEXANONE	0.0000	UG/KG	< 50.00
85-4	6.0'-6.5'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	TOLUENE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	STYRENE	0.0000	UG/KG	< 5.00
85-4	6.0'-6.5'	XYLENES	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B5-4	6.0'-6.5'	PHENOL	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
B5-4	6.0'-6.5'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
B5-4	6.0'-6.5'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
B5-4	6.0'-6.5'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
B5-4	6.0'-6.5'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
B5-4	6.0'-6.5'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
B5-4	6.0'-6.5'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
B5-4	6.0'-6.5'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
B5-4	6.0'-6.5'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	NITROBENZENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	ISOPHORONE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	NAPHTHALENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
B5-4	6.0'-6.5'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
B5-4	6.0'-6.5'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00

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FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B5-4	6.0'-6.5'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
B5-4	6.0'-6.5'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	FLUORENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
B5-4	6.0'-6.5'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	PHENANTHRENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	ANTHRACENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	FLUORANTHENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	PYRENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	3,3'-DICHLOBENZIDINE	0.0000	UG/KG	< 1300.00
B5-4	6.0'-6.5'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	CHRYSENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
B5-4	6.0'-6.5'	EICOSANE	810.0000	UG/KG	< 0.00
B5-4	6.0'-6.5'	HENETICOSANE	1100.0000	UG/KG	< 0.00
B5-4	6.0'-6.5'	DOCOSANE	680.0000	UG/KG	< 0.00
B5-5	13.0'-16.0'	BENZENE	0.0000	UG/KG	< 2.00
B5-5	13.0'-16.0'	TOLUENE	0.0000	UG/KG	< 2.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
85-5	13.0'-16.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
85-5	13.0'-16.0'	XYLENES	0.0000	UG/KG	< 2.00
85-5	13.0'-16.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
85-5	13.0'-16.0'	TOTAL PETROLEUM HYDROCARBONS	15.0000	MG/KG	< 10.00
85-5	13.0'-16.0'	TOTAL SOLIDS	81.0000	%	< 1.00
85-6	18.0'-19.0'	BENZENE	0.0000	UG/KG	< 2.00
85-6	18.0'-19.0'	TOLUENE	0.0000	UG/KG	< 2.00
85-6	18.0'-19.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
85-6	18.0'-19.0'	XYLENES	0.0000	UG/KG	< 2.00
85-6	18.0'-19.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
85-6	18.0'-19.0'	TOTAL PETROLEUM HYDROCARBONS	34.0000	MG/KG	< 10.00
85-6	18.0'-19.0'	TOTAL SOLIDS	81.0000	%	< 1.00
86-3	4.5'-5.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
86-3	4.5'-5.0'	TOTAL SOLIDS	94.0000	%	< 1.00
86-3	4.5'-5.0'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
86-3	4.5'-5.0'	BROMOMETHANE	0.0000	UG/KG	< 10.00
86-3	4.5'-5.0'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
86-3	4.5'-5.0'	CHLOROETHANE	0.0000	UG/KG	< 10.00
86-3	4.5'-5.0'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	ACETONE	0.0000	UG/KG	< 100.00
86-3	4.5'-5.0'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	CHLOROFORM	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	2-BUTANONE	0.0000	UG/KG	< 100.00
86-3	4.5'-5.0'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	VINYL ACETATE	0.0000	UG/KG	< 50.00
86-3	4.5'-5.0'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
86-3	4.5'-5.0'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B6-3	4.5'-5.0'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
B6-3	4.5'-5.0'	BENZENE	0.0000	UG/KG	< 5.00
B6-3	4.5'-5.0'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
B6-3	4.5'-5.0'	BROMOFORM	0.0000	UG/KG	< 5.00
B6-3	4.5'-5.0'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
B6-3	4.5'-5.0'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
B6-3	4.5'-5.0'	2-HEXANONE	0.0000	UG/KG	< 50.00
B6-3	4.5'-5.0'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
B6-3	4.5'-5.0'	TOLUENE	0.0000	UG/KG	< 5.00
B6-3	4.5'-5.0'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
B6-3	4.5'-5.0'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
B6-3	4.5'-5.0'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
B6-3	4.5'-5.0'	STYRENE	0.0000	UG/KG	< 5.00
B6-3	4.5'-5.0'	XYLENES	0.0000	UG/KG	< 5.00
B6-3	4.5'-5.0'	PHENOL	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
B6-3	4.5'-5.0'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
B6-3	4.5'-5.0'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
B6-3	4.5'-5.0'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
B6-3	4.5'-5.0'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
B6-3	4.5'-5.0'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
B6-3	4.5'-5.0'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
B6-3	4.5'-5.0'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
B6-3	4.5'-5.0'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00



FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B6-3	4.5'-5.0'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	NITROBENZENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	ISOPHORONE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	NAPHTHALENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
B6-3	4.5'-5.0'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
B6-3	4.5'-5.0'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
B6-3	4.5'-5.0'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	FLUORENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
B6-3	4.5'-5.0'	N-NITROSDIPHENYLAMINE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	PHENANTHRENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	ANTHRACENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	FLUORANTHENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	PYRENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
B6-3	4.5'-5.0'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B6-3	4.5'-5.0'	CHRYSENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
B6-3	4.5'-5.0'	HENETICOSANE	960.0000	UG/KG	< 0.00
B7-4	7.0'-8.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
B7-4	7.0'-8.0'	TOTAL SOLIDS	86.0000	%	< 1.00
B7-4	7.0'-8.0'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
B7-4	7.0'-8.0'	BROMOMETHANE	0.0000	UG/KG	< 10.00
B7-4	7.0'-8.0'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
B7-4	7.0'-8.0'	CHLOROETHANE	0.0000	UG/KG	< 10.00
B7-4	7.0'-8.0'	METHYLENE CHLORIDE	16.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	ACETONE	186.0000	UG/KG	< 100.00
B7-4	7.0'-8.0'	CARBON DISULFIDE	5.4000	UG/KG	< 5.00
B7-4	7.0'-8.0'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	CHLOROFORM	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	2-BUTANONE	0.0000	UG/KG	< 100.00
B7-4	7.0'-8.0'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	VINYL ACETATE	0.0000	UG/KG	< 50.00
B7-4	7.0'-8.0'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	BENZENE	0.0000	UG/KG	< 5.00

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FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B7-4	7.0'-8.0'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	BROMOFORM	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
B7-4	7.0'-8.0'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
B7-4	7.0'-8.0'	2-HEXANONE	0.0000	UG/KG	< 50.00
B7-4	7.0'-8.0'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	TOLUENE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	STYRENE	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	XYLENES	0.0000	UG/KG	< 5.00
B7-4	7.0'-8.0'	PHENOL	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 3300.00
B7-4	7.0'-8.0'	BENZOIC ACID	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
B7-4	7.0'-8.0'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
B7-4	7.0'-8.0'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
B7-4	7.0'-8.0'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
B7-4	7.0'-8.0'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
B7-4	7.0'-8.0'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
B7-4	7.0'-8.0'	BIS(2-CHLOROETHYL) ETHER	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
B7-4	7.0'-8.0'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	BIS(2-CHLOROISOPROPYL) ETHER	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B7-4	7.0'-8.0'	NITROBENZENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	ISOPHORONE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	NAPHTHALENÉ	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
B7-4	7.0'-8.0'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
B7-4	7.0'-8.0'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
B7-4	7.0'-8.0'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	FLUORENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
B7-4	7.0'-8.0'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	PHENANTHRENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	ANTHRACENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	FLUORANTHENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	PYRENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
B7-4	7.0'-8.0'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	CHRYSENE	0.0000	UG/KG	< 660.00
B7-4	7.0'-8.0'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
87-4	7.0'-8.0'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
87-4	7.0'-8.0'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
87-4	7.0'-8.0'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
87-4	7.0'-8.0'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
87-4	7.0'-8.0'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
87-4	7.0'-8.0'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
87-4	7.0'-8.0'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 10.00
87-6	17.0'-18.0'	BENZENE	0.0000	UG/KG	< 2.00
87-6	17.0'-18.0'	TOLUENE	0.0000	UG/KG	< 2.00
87-6	17.0'-18.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
87-6	17.0'-18.0'	XYLENES	0.0000	UG/KG	< 2.00
87-6	17.0'-18.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
87-6	17.0'-18.0'	TOTAL PETROLEUM HYDROCARBON	21.0000	MG/KG	< 10.00
87-6	17.0'-18.0'	TOTAL SOLIDS	89.0000	%	< 1.00
88-3	5.0'-6.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
88-3	5.0'-6.0'	TOTAL SOLIDS	86.0000	%	< 1.00
88-3	5.0'-6.0'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
88-3	5.0'-6.0'	BROMOMETHANE	0.0000	UG/KG	< 10.00
88-3	5.0'-6.0'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
88-3	5.0'-6.0'	CHLOROETHANE	0.0000	UG/KG	< 10.00
88-3	5.0'-6.0'	METHYLENE CHLORIDE	12.5000	UG/KG	< 5.00
88-3	5.0'-6.0'	ACETONE	0.0000	UG/KG	< 100.00
88-3	5.0'-6.0'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	CHLOROFORM	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	2-BUTANONE	0.0000	UG/KG	< 100.00
88-3	5.0'-6.0'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	VINYL ACETATE	0.0000	UG/KG	< 50.00
88-3	5.0'-6.0'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
88-3	5.0'-6.0'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	BENZENE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	BROMOFORM	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
88-3	5.0'-6.0'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
88-3	5.0'-6.0'	2-HEXANONE	0.0000	UG/KG	< 50.00
88-3	5.0'-6.0'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	TOLUENE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	STYRENE	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	XYLENES	0.0000	UG/KG	< 5.00
88-3	5.0'-6.0'	PHENOL	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
88-3	5.0'-6.0'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
88-3	5.0'-6.0'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
88-3	5.0'-6.0'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
88-3	5.0'-6.0'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
88-3	5.0'-6.0'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
88-3	5.0'-6.0'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
88-3	5.0'-6.0'	BIS(2-CHLOROETHYL) ETHER	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
B8-3	5.0'-6.0'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	NITROBENZENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	ISOPHORONE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	NAPHTHALENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
B8-3	5.0'-6.0'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
B8-3	5.0'-6.0'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
B8-3	5.0'-6.0'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	FLUORENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
B8-3	5.0'-6.0'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	PHENANTHRENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	ANTHRACENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	DI-N-BUTYLPHTHALATE	1100.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	FLUORANTHENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	PYRENE	0.0000	UG/KG	< 660.00
B8-3	5.0'-6.0'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
88-3	5.0'-6.0'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
88-3	5.0'-6.0'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	CHRYSENE	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
88-3	5.0'-6.0'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 10.00
88-4	12.0'-13.0'	BENZENE	0.0000	UG/KG	< 2.00
88-4	12.0'-13.0'	TOLUENE	0.0000	UG/KG	< 2.00
88-4	12.0'-13.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
88-4	12.0'-13.0'	XYLENES	0.0000	UG/KG	< 2.00
88-4	12.0'-13.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
88-4	12.0'-13.0'	TOTAL PETROLEUM HYDROCARBON	0.0000	MG/KG	< 10.00
88-4	12.0'-13.0'	TOTAL SOLIDS	62.0000	%	< 1.00
88-5	17.0'-18.0'	BENZENE	0.0000	UG/KG	< 2.00
88-5	17.0'-18.0'	TOLUENE	0.0000	UG/KG	< 2.00
88-5	17.0'-18.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
88-5	17.0'-18.0'	XYLENES	0.0000	UG/KG	< 2.00
88-5	17.0'-18.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
88-5	17.0'-18.0'	TOTAL PETROLEUM HYDROCARBON	39.0000	MG/KG	< 10.00
88-5	17.0'-18.0'	TOTAL SOLIDS	86.0000	%	< 1.00
C1		BENZENE	0.0000	UG/KG	< 2.00
C1		TOLUENE	2.0000	UG/KG	< 2.00
C1		ETHYLBENZENE	0.0000	UG/KG	< 2.00
C1		XYLENES	2.0000	UG/KG	< 2.00
C1		TOTAL PETROLEUM HYDROCARBON	191.0000	MG/KG	< 10.00
C1		TOTAL SOLIDS	85.0000	%	< 1.00
C1		BENZENE, TCLP	0.0000	MG/L	< 0.00
OW1-12	41.0'-42.0'	BENZENE	0.0000	UG/KG	< 2.00
OW1-12	41.0'-42.0'	TOLUENE	0.0000	UG/KG	< 2.00
OW1-12	41.0'-42.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00



FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW1-12	41.0'-42.0'	XYLENES	8.0000	UG/KG	< 2.00
OW1-12	41.0'-42.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW1-12	41.0'-42.0'	TOTAL PETROLEUM HYDROCARBONS	0.0000	MG/KG	< 10.00
OW1-12	41.0'-42.0'	TOTAL SOLIDS	87.0000	%	< 1.00
OW1-12D	41.0'-42.0'	BENZENE	0.0000	UG/KG	< 2.00
OW1-12D	41.0'-42.0'	TOLUENE	0.0000	UG/KG	< 2.00
OW1-12D	41.0'-42.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OW1-12D	41.0'-42.0'	XYLENES	0.0000	UG/KG	< 2.00
OW1-12D	41.0'-42.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW1-12D	41.0'-42.0'	TOTAL PETROLEUM HYDROCARBONS	25.0000	MG/KG	< 10.00
OW1-12D	41.0'-42.0'	TOTAL SOLIDS	89.0000	%	< 1.00
OW1-13	52.0'-54.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW1-13	52.0'-54.0'	TOTAL SOLIDS	83.0000	%	< 1.00
OW1-13	52.0'-54.0'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
OW1-13	52.0'-54.0'	BROMOMETHANE	0.0000	UG/KG	< 10.00
OW1-13	52.0'-54.0'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
OW1-13	52.0'-54.0'	CHLOROETHANE	0.0000	UG/KG	< 10.00
OW1-13	52.0'-54.0'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	ACETONE	0.0000	UG/KG	< 100.00
OW1-13	52.0'-54.0'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	CHLOROFORM	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	2-BUTANONE	0.0000	UG/KG	< 100.00
OW1-13	52.0'-54.0'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	VINYL ACETATE	0.0000	UG/KG	< 50.00
OW1-13	52.0'-54.0'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW1-13	52.0'-54.0'	BENZENE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	BROMOFORM	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
OW1-13	52.0'-54.0'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
OW1-13	52.0'-54.0'	2-HEXANONE	0.0000	UG/KG	< 50.00
OW1-13	52.0'-54.0'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	TOLUENE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	STYRENE	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	XYLENES	0.0000	UG/KG	< 5.00
OW1-13	52.0'-54.0'	PHENOL	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
OW1-13	52.0'-54.0'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
OW1-13	52.0'-54.0'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW1-13	52.0'-54.0'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
OW1-13	52.0'-54.0'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
OW1-13	52.0'-54.0'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
OW1-13	52.0'-54.0'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW1-13	52.0'-54.0'	BIS(2-CHLOROETHYL) ETHER	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
OW1-13	52.0'-54.0'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	BIS(2-CHLOROISOPROPYL) ETHER	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW1-13	52.0'-54.0'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	NITROBENZENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	ISOPHORONE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	NAPHTHALENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
OW1-13	52.0'-54.0'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
OW1-13	52.0'-54.0'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
OW1-13	52.0'-54.0'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	FLUORENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
OW1-13	52.0'-54.0'	N-NITROSDIPHENYLAMINE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	PHENANTHRENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	ANTHRACENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	FLUORANTHENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	PYRENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
OW1-13	52.0'-54.0'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	CHRYSENE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW1-13	52.0'-54.0'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	DJ-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
OW1-13	52.0'-54.0'	HENEICOSANE	670.0000	UG/KG	< 0.00
OW1-14	62.0'-63.0'	BENZENE	0.0000	UG/KG	< 2.00
OW1-14	62.0'-63.0'	TOLUENE	0.0000	UG/KG	< 2.00
OW1-14	62.0'-63.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OW1-14	62.0'-63.0'	XYLENES	0.0000	UG/KG	< 2.00
OW1-14	62.0'-63.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW1-14	62.0'-63.0'	TOTAL PETROLEUM HYDROCARBONS	0.0000	MG/KG	< 10.00
OW1-14	62.0'-63.0'	TOTAL SOLIDS	83.0000	%	< 1.00
OW1-7	14.75'-15.25'	BENZENE	0.0000	UG/KG	< 2.00
OW1-7	14.75'-15.25'	TOLUENE	2.0000	UG/KG	< 2.00
OW1-7	14.75'-15.25'	ETHYLBENZENE	38.0000	UG/KG	< 2.00
OW1-7	14.75'-15.25'	XYLENES	290.0000	UG/KG	< 2.00
OW1-7	14.75'-15.25'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW1-7	14.75'-15.25'	TOTAL PETROLEUM HYDROCARBONS	1600.0000	MG/KG	< 500.00
OW1-7	14.75'-15.25'	TOTAL SOLIDS	88.0000	%	< 1.00
OW1-9	18.6'-23.6'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW1-9	18.6'-23.6'	TOTAL SOLIDS	84.0000	%	< 1.00
OW1-9	18.6'-23.6'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
OW1-9	18.6'-23.6'	BROMOMETHANE	0.0000	UG/KG	< 10.00
OW1-9	18.6'-23.6'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
OW1-9	18.6'-23.6'	CHLOROETHANE	0.0000	UG/KG	< 10.00
OW1-9	18.6'-23.6'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	ACETONE	0.0000	UG/KG	< 100.00
OW1-9	18.6'-23.6'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW1-9	18.6'-23.6'	CHLOROFORM	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	2-BUTANONE	0.0000	UG/KG	< 100.00
OW1-9	18.6'-23.6'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	VINYL ACETATE	0.0000	UG/KG	< 50.00
OW1-9	18.6'-23.6'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	BENZENE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	BROMOFORM	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
OW1-9	18.6'-23.6'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
OW1-9	18.6'-23.6'	2-HEXANONE	0.0000	UG/KG	< 50.00
OW1-9	18.6'-23.6'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	TOLUENE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	STYRENE	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	XYLENES	0.0000	UG/KG	< 5.00
OW1-9	18.6'-23.6'	PHENOL	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
OW1-9	18.6'-23.6'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
OW1-9	18.6'-23.6'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW1-9	18.6'-23.6'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW1-9	18.6'-23.6'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
OW1-9	18.6'-23.6'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
OW1-9	18.6'-23.6'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
OW1-9	18.6'-23.6'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW1-9	18.6'-23.6'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
OW1-9	18.6'-23.6'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	NITROBENZENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	ISOPHORONE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	NAPHTHALENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
OW1-9	18.6'-23.6'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
OW1-9	18.6'-23.6'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
OW1-9	18.6'-23.6'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	FLUORENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	4-NITROANILINE	0.0000	UG/KG	< 3300.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW1-9	18.6'-23.6'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	PHENANTHRENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	ANTHRACENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	FLUORANTHENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	PYRENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
OW1-9	18.6'-23.6'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	CHRYSENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
OW1-9	18.6'-23.6'	DECANE	21000.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	TRIMETHYLOCTANE	11000.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	METHYLPROPYLCYCLOHEXANE	19000.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	UNIDENTIFIED ALKANE	21000.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	UNIDENTIFIED AROMATIC HYDROCARBON	13000.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	UNDECANE	25000.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	UNIDENTIFIED ALKENE	10000.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	UNIDENTIFIED AROMATIC HYDROCARBON	4800.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	DECAHYDRO-METHYLNAPHTHALENE	4800.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	UNIDENTIFIED CYCLIC HYDROCARBON	5500.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	DECAHYDRO-METHYLNAPHTHALENE	7200.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	ETHYL-DIMETHYLBENZENE	5800.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	2,4,6-TRIMETHYLOCTANE	2100.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	DECANE	6300.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	2,6-DIMETHYLNONANE	6500.0000	UG/KG	< 0.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW1-9	18.6'-23.6'	BUTYLCYCLOHEXANE	2200.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	3-METHYLDECANE	2600.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	3,7-DIMETHYLNONANE	1900.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	2,2,5,5-TETRAMETHYLHEPTANE	6400.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	3-METHYLUNDECANE	5300.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	3-ETHYL-2,7-DIMETHYLOCTANE	2200.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	(1,2-DIMETHYLBUTYL)CYCLOHEXANE	2300.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	UNDECANE	11000.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	DECAHYDRO-2-METHYLNAPHTHALENE	850.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	PENTYLCYCLOHEXANE	1100.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	UNIDENTIFIED AROMATIC HYDROCARBON	950.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	1-METHYL-4-ISOPROPYLBENZENE	1800.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	3,7-DIMETHYLUNDECANE	1100.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	2,3,5-TRIMETHYLUNDECANE	1300.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	TETRADECANE	2800.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	HEPTADECANE	1500.0000	UG/KG	< 0.00
OW1-9	18.6'-23.6'	NONYLPHENOL	1200.0000	UG/KG	< 0.00
OW2-10	39.5'-40.5'	BENZENE	0.0000	UG/KG	< 2.00
OW2-10	39.5'-40.5'	TOLUENE	0.0000	UG/KG	< 2.00
OW2-10	39.5'-40.5'	ETHYLBENZENE	6.0000	UG/KG	< 2.00
OW2-10	39.5'-40.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW2-10	39.5'-40.5'	TOTAL PETROLEUM HYDROCARBONS	30.0000	UG/KG	< 10.00
OW2-10	39.5'-40.5'	TOTAL SOLIDS	94.0000	%	< 1.00
OW2-10	39.5'-40.5'	XYLENES	15.0000	UG/KG	< 2.00
OW2-13	54.0'-55.5'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
OW2-13	54.0'-55.5'	BROMOMETHANE	0.0000	UG/KG	< 10.00
OW2-13	54.0'-55.5'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
OW2-13	54.0'-55.5'	CHLOROETHANE	0.0000	UG/KG	< 10.00
OW2-13	54.0'-55.5'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
OW2-13	54.0'-55.5'	ACETONE	0.0000	UG/KG	< 100.00
OW2-13	54.0'-55.5'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
OW2-13	54.0'-55.5'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW2-13	54.0'-55.5'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW2-13	54.0'-55.5'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW2-13	54.0'-55.5'	CHLOROFORM	0.0000	UG/KG	< 5.00



FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
042-13	54.0'-55.5'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	2-BUTANONE	0.0000	UG/KG	< 100.00
042-13	54.0'-55.5'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	VINYL ACETATE	0.0000	UG/KG	< 50.00
042-13	54.0'-55.5'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	BENZENE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	BROMOFORM	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
042-13	54.0'-55.5'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
042-13	54.0'-55.5'	2-HEXANONE	0.0000	UG/KG	< 50.00
042-13	54.0'-55.5'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	TOLUENE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	STYRENE	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	XYLENES	0.0000	UG/KG	< 5.00
042-13	54.0'-55.5'	PHENOL	0.0000	UG/KG	< 660.00
042-13	54.0'-55.5'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
042-13	54.0'-55.5'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
042-13	54.0'-55.5'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
042-13	54.0'-55.5'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
042-13	54.0'-55.5'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
042-13	54.0'-55.5'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
042-13	54.0'-55.5'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
042-13	54.0'-55.5'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
042-13	54.0'-55.5'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
042-13	54.0'-55.5'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW2-13	54.0'-55.5'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
OW2-13	54.0'-55.5'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
OW2-13	54.0'-55.5'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
OW2-13	54.0'-55.5'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW2-13	54.0'-55.5'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
OW2-13	54.0'-55.5'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	NITROBENZENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	ISOPHORONE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	NAPHTHALENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
OW2-13	54.0'-55.5'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
OW2-13	54.0'-55.5'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
OW2-13	54.0'-55.5'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	FLUORENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
OW2-13	54.0'-55.5'	N-NITROSDIPHENYLAMINE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW2-13	54.0'-55.5'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	PHENANTHRENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	ANTHRACENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	FLUORANTHENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	PYRENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	3,3'-DICHLOORBENZIDINE	0.0000	UG/KG	< 1300.00
OW2-13	54.0'-55.5'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	CHRYSENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
OW2-13	54.0'-55.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 5.00
OW2-13	54.0'-55.5'	TOTAL SOLIDS	82.0000	%	< 1.00
OW2-13	54.0'-55.5'	DECANE	2500.0000	UG/KG	< 0.00
OW2-13	54.0'-55.5'	2,2,4-TRIMETHYLDECANE	3100.0000	UG/KG	< 0.00
OW2-13	54.0'-55.5'	2,2,4,6,6-PENTAMETHYLHEPTANE	1200.0000	UG/KG	< 0.00
OW2-13	54.0'-55.5'	2-METHYL-5-PROPYLNONANE	3100.0000	UG/KG	< 0.00
OW2-13	54.0'-55.5'	2,2,6-TRIMETHYLDECANE	900.0000	UG/KG	< 0.00
OW2-13	54.0'-55.5'	2,2,3,3-TETRAMETHYLNONANE	4900.0000	UG/KG	< 0.00
OW2-13	54.0'-55.5'	2,2,5,5-TETRAMETHYLNONANE	3000.0000	UG/KG	< 0.00
OW2-13	54.0'-55.5'	2,8-DIMETHYLNUNDECANE	2100.0000	UG/KG	< 0.00
OW2-13	54.0'-55.5'	4,5-DIMETHYLNUNDECANE	1300.0000	UG/KG	< 0.00
OW2-13	54.0'-55.5'	DODECANE	3400.0000	UG/KG	< 0.00
OW2-13	54.0'-55.5'	2,2,5,5-TETRAMETHYLHEXANE	1300.0000	UG/KG	< 0.00
OW2-16	69.0'-69.5'	BENZENE	0.0000	UG/KG	< 2.00
OW2-16	69.0'-69.5'	TOLUENE	0.0000	UG/KG	< 2.00
OW2-16	69.0'-69.5'	ETHYLBENZENE	0.0000	UG/KG	< 2.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW2-16	69.0'-69.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW2-16	69.0'-69.5'	TOTAL PETROLEUM HYDROCARBON	0.0000	MG/KG	< 10.00
OW2-16	69.0'-69.5'	TOTAL SOLIDS	82.0000	%	< 1.00
OW2-16	69.0'-69.5'	XYLENES	0.0000	UG/KG	< 2.00
OW2-5	9.5'-10.0'	CHLOROMETHANE	0.0000	UG/KG	< 500.00
OW2-5	9.5'-10.0'	BROMOMETHANE	0.0000	UG/KG	< 500.00
OW2-5	9.5'-10.0'	VINYL CHLORIDE	0.0000	UG/KG	< 500.00
OW2-5	9.5'-10.0'	CHLOROETHANE	0.0000	UG/KG	< 500.00
OW2-5	9.5'-10.0'	METHYLENE CHLORIDE	2780.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	ACETONE	0.0000	UG/KG	< 5000.00
OW2-5	9.5'-10.0'	CARBON DISULFIDE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	CHLOROFORM	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	2-BUTANONE	0.0000	UG/KG	< 5000.00
OW2-5	9.5'-10.0'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	VINYL ACETATE	0.0000	UG/KG	< 2500.00
OW2-5	9.5'-10.0'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	TRICHLOROETHENE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	BENZENE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	BROMOFORM	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 500.00
OW2-5	9.5'-10.0'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 2500.00
OW2-5	9.5'-10.0'	2-HEXANONE	0.0000	UG/KG	< 2500.00
OW2-5	9.5'-10.0'	TETRACHLOROETHENE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	TOLUENE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 250.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW2-5	9.5'-10.0'	CHLOROBENZENE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	ETHYLBENZENE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	STYRENE	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	XYLENES	0.0000	UG/KG	< 250.00
OW2-5	9.5'-10.0'	PHENOL	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
OW2-5	9.5'-10.0'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
OW2-5	9.5'-10.0'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW2-5	9.5'-10.0'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
OW2-5	9.5'-10.0'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
OW2-5	9.5'-10.0'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
OW2-5	9.5'-10.0'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW2-5	9.5'-10.0'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
OW2-5	9.5'-10.0'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	NITROBENZENE	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	ISOPHORONE	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	NAPHTHALENE	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
OW2-5	9.5'-10.0'	HEXACHLOROBTADIENE	0.0000	UG/KG	< 660.00
OW2-5	9.5'-10.0'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
042-5	9.5'-10.0'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
042-5	9.5'-10.0'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
042-5	9.5'-10.0'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	FLUORENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
042-5	9.5'-10.0'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	PHENANTHRENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	ANTHRACENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	FLUORANTHENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	PYRENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
042-5	9.5'-10.0'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	CHRYSENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
042-5	9.5'-10.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 250.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
042-5	9.5'-10.0'	UNIDENTIFIED ALKANE	2600.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNIDENTIFIED CYCLIC HYDROCARBON	3700.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	DECANE	6500.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNIDENTIFIED ALKENE	7900.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	DIMETHYLNONANE	8000.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	TRIMETHYLOCTANE	14000.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNIDENTIFIED ALKENE	3000.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNDECANE	10000.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	METHYL-METHYLETHYLBENZENE	1300.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNIDENTIFIED CYCLIC HYDROCARBON	3700.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	DECAHYDRO-METHYLNAPHTHALENE	1200.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNIDENTIFIED ALKANE	1400.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	ETHYL-DIMETHYLBENZENE	1000.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	TOTAL SOLIDS	90.0000	%	< 1.00
042-8	23.0'-23.5'	BENZENE	0.0000	UG/KG	< 2.00
042-8	23.0'-23.5'	TOLUENE	0.0000	UG/KG	< 2.00
042-8	23.0'-23.5'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
042-8	23.0'-23.5'	XYLENES	0.0000	UG/KG	< 2.00
042-8	23.0'-23.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
042-8	23.0'-23.5'	TOTAL PETROLEUM HYDROCARBONS	48.0000	MG/KG	< 10.00
042-8	23.0'-23.5'	TOTAL SOLIDS	83.0000	%	< 1.00
042-9	29.0'-30.0'	BENZENE	0.0000	UG/KG	< 2.00
042-9	29.0'-30.0'	TOLUENE	0.0000	UG/KG	< 2.00
042-9	29.0'-30.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
042-9	29.0'-30.0'	XYLENES	0.0000	UG/KG	< 2.00
042-9	29.0'-30.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
042-9	29.0'-30.0'	TOTAL PETROLEUM HYDROCARBONS	11.0000	MG/KG	< 10.00
042-9	29.0'-30.0'	TOTAL SOLIDS	84.0000	%	< 1.00
043-10	53.0'-54.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
043-10	53.0'-54.0'	TOTAL SOLIDS	85.0000	%	< 1.00
043-10	53.0'-54.0'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
043-10	53.0'-54.0'	BROMOMETHANE	0.0000	UG/KG	< 10.00
043-10	53.0'-54.0'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
043-10	53.0'-54.0'	CHLOROETHANE	0.0000	UG/KG	< 10.00
043-10	53.0'-54.0'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW3-10	53.0'-54.0'	ACETONE	0.0000	UG/KG	< 100.00
OW3-10	53.0'-54.0'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	CHLOROFORM	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	2-BUTANONE	0.0000	UG/KG	< 100.00
OW3-10	53.0'-54.0'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	VINYL ACETATE	0.0000	UG/KG	< 50.00
OW3-10	53.0'-54.0'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	BENZENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	BROMOFORM	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
OW3-10	53.0'-54.0'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
OW3-10	53.0'-54.0'	2-HEXANONE	0.0000	UG/KG	< 50.00
OW3-10	53.0'-54.0'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	TOLUENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	STYRENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	XYLENES	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	PHENOL	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	2-NITROPHENOL	0.0000	UG/KG	< 660.00



FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW3-10	53.0'-54.0'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
OW3-10	53.0'-54.0'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
OW3-10	53.0'-54.0'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW3-10	53.0'-54.0'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
OW3-10	53.0'-54.0'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
OW3-10	53.0'-54.0'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
OW3-10	53.0'-54.0'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW3-10	53.0'-54.0'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
OW3-10	53.0'-54.0'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	NITROBENZENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	ISOPHORONE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	NAPHTHALENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
OW3-10	53.0'-54.0'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
OW3-10	53.0'-54.0'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
OW3-10	53.0'-54.0'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	DIBENZOFURAN	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW3-10	53.0'-54.0'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	DIETHYLPHthalate	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	FLUORENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
OW3-10	53.0'-54.0'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	PHENANTHRENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	ANTHRACENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	DI-N-BUTYLPHthalate	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	FLUORANTHENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	PYRENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	BUTYL BENZYL PHthalate	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
OW3-10	53.0'-54.0'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	CHRYSENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	BIS(2-ETHYLHEXYL)PHthalate	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	DI-N-OCTYLPHthalate	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	EICOSANE	660.0000	UG/KG	< 0.00
OW3-10	53.0'-54.0'	HENIECOSANE	1200.0000	UG/KG	< 0.00
OW3-10	53.0'-54.0'	DODOCANE	970.0000	UG/KG	< 0.00
OW3-10	53.0'-54.0'	TRICOSANE	670.0000	UG/KG	< 0.00
OW3-10	53.0'-54.0'	TETRACOSANE	1000.0000	UG/KG	< 0.00
OW3-11	61.0'-62.0'	BENZENE	0.0000	UG/KG	< 2.00
OW3-11	61.0'-62.0'	TOLUENE	0.0000	UG/KG	< 2.00
OW3-11	61.0'-62.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OW3-11	61.0'-62.0'	XYLENES	0.0000	UG/KG	< 2.00
OW3-11	61.0'-62.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW3-11	61.0'-62.0'	TOTAL PETROLEUM HYDROCARBON	15.0000	MG/KG	< 10.00
OW3-11	61.0'-62.0'	TOTAL SOLIDS	83.0000	%	< 1.00
OW3-3	4.5'-5.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/L	< 10.00
OW3-3	4.5'-5.5'	TOTAL SOLIDS	87.0000	%	< 1.00
OW3-30	4.5'-5.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	TOTAL SOLIDS	87.0000	%	< 1.00
OW3-30	4.5'-5.5'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	BROMOMETHANE	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	CHLOROETHANE	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	ACETONE	0.0000	UG/KG	< 100.00
OW3-30	4.5'-5.5'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	CHLOROFORM	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	2-BUTANONE	0.0000	UG/KG	< 100.00
OW3-30	4.5'-5.5'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	VINYL ACETATE	0.0000	UG/KG	< 50.00
OW3-30	4.5'-5.5'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	BENZENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	BROMOFORM	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
OW3-30	4.5'-5.5'	2-HEXANONE	0.0000	UG/KG	< 50.00
OW3-30	4.5'-5.5'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW3-30	4.5'-5.5'	TOLUENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	STYRENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	XYLENES	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	PHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
OW3-30	4.5'-5.5'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	PENTACHLOROPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
OW3-30	4.5'-5.5'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	NITROBENZENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	ISOPHORONE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	NAPHTHALENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00

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FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW3-30	4.5'-5.5'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	FLUORENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	PHENANTHRENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	ANTHRACENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	FLUORANTHENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	PYRENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
OW3-30	4.5'-5.5'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	CHRYSENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	D1-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW3-30	4.5'-5.5'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
OW3-7	21.5'-22.5'	BENZENE	0.0000	UG/KG	< 2.00
OW3-7	21.5'-22.5'	TOLUENE	0.0000	UG/KG	< 2.00
OW3-7	21.5'-22.5'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OW3-7	21.5'-22.5'	XYLENES	0.0000	UG/KG	< 2.00
OW3-7	21.5'-22.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW3-7	21.5'-22.5'	TOTAL PETROLEUM HYDROCARBON	20.0000	MG/KG	< 10.00
OW3-7	21.5'-22.5'	TOTAL SOLIDS	90.0000	%	< 1.00
OW3-9	39.5'-40.5'	BENZENE	0.0000	UG/KG	< 2.00
OW3-9	39.5'-40.5'	TOLUENE	0.0000	UG/KG	< 2.00
OW3-9	39.5'-40.5'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OW3-9	39.5'-40.5'	XYLENES	0.0000	UG/KG	< 2.00
OW3-9	39.5'-40.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW3-9	39.5'-40.5'	TOTAL PETROLEUM HYDROCARBON	28.0000	MG/KG	< 10.00
OW3-9	39.5'-40.5'	TOTAL SOLIDS	83.0000	%	< 1.00
OW4-11	52.0'-53.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW4-11	52.0'-53.0'	TOTAL SOLIDS	82.0000	%	< 1.00
OW4-11	52.0'-53.0'	CHLOROMETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BROMOMETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	VINYL CHLORIDE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	CHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	METHYLENE CHLORIDE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	ACETONE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	CARBON DISULFIDE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	CHLOROFORM	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-BUTANONE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	VINYL ACETATE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 0.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW4-11	52.0'-53.0'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	TRICHLOROETHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BROMOFORM	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-HEXANONE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	TETRACHLOROETHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	TOLUENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	CHLOROBENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	ETHYLBENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	STYRENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	XYLENES	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	PHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-CHLOROPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-METHYLPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-METHYLPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-NITROPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BENZOIC ACID	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2,4-DINITROPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-NITROPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	PENTACHLOROPHENOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BIS(2-CHLOROETHYL) ETHER	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 0.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW4-11	52.0'-53.0'	BENZYL ALCOHOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	HEXACHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	NITROBENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	ISOPHORONE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	NAPHTHALENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-CHLOROANILINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-NITROANILINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	ACENAPHTHYLENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	3-NITROANILINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	ACENAPHTHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	DIBENZOFURAN	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	DIETHYLPHTHALATE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	FLUORENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-NITROANILINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	N-NITROSDIPHENYLAMINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	HEXACHLOROBENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	PHENANTHRENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	ANTHRACENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	FLUORANTHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	PYRENE	0.0000	UG/KG	< 0.00



FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW4-11	52.0'-53.0'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	3,3'-DICHLOBENZIDINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	CHRYSENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BENZO(A)PYRENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 0.00
OW4-12	61.0'-62.0'	BENZENE	0.0000	UG/KG	< 2.00
OW4-12	61.0'-62.0'	TOLUENE	0.0000	UG/KG	< 2.00
OW4-12	61.0'-62.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OW4-12	61.0'-62.0'	XYLENES	0.0000	UG/KG	< 2.00
OW4-12	61.0'-62.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW4-12	61.0'-62.0'	TOTAL PETROLEUM HYDROCARBON	0.0000	MG/KG	< 10.00
OW4-12	61.0'-62.0'	TOTAL SOLIDS	86.0000	%	< 1.00
OW4-4	8.0'-8.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW4-4	8.0'-8.5'	TOTAL SOLIDS	85.0000	%	< 1.00
OW4-4	8.0'-8.5'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
OW4-4	8.0'-8.5'	BROMOMETHANE	0.0000	UG/KG	< 10.00
OW4-4	8.0'-8.5'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
OW4-4	8.0'-8.5'	CHLOROETHANE	0.0000	UG/KG	< 10.00
OW4-4	8.0'-8.5'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	ACETONE	0.0000	UG/KG	< 100.00
OW4-4	8.0'-8.5'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	CHLOROFORM	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	2-BUTANONE	0.0000	UG/KG	< 100.00
OW4-4	8.0'-8.5'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00

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FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW4-4	8.0'-8.5'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	VINYL ACETATE	0.0000	UG/KG	< 50.00
OW4-4	8.0'-8.5'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	BENZENE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	BROMOFORM	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
OW4-4	8.0'-8.5'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
OW4-4	8.0'-8.5'	2-HEXANONE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	TOLUENE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	STYRENE	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	XYLENES	0.0000	UG/KG	< 5.00
OW4-4	8.0'-8.5'	PHENOL	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
OW4-4	8.0'-8.5'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
OW4-4	8.0'-8.5'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW4-4	8.0'-8.5'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
OW4-4	8.0'-8.5'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
OW4-4	8.0'-8.5'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW4-4	8.0'-8.5'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW4-4	8.0'-8.5'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
OW4-4	8.0'-8.5'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	NITROBENZENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	ISOPHORONE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	NAPHTHALENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
OW4-4	8.0'-8.5'	HEXACHLOROBTADIENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
OW4-4	8.0'-8.5'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
OW4-4	8.0'-8.5'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	FLUORENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
OW4-4	8.0'-8.5'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	PHENANTHRENE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW4-4	8.0'-8.5'	ANTHRACENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	FLUORANTHENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	PYRENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
OW4-4	8.0'-8.5'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	CHRYSENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
OW4-4	8.0'-8.5'	HENEICOSANE	700.0000	UG/KG	< 0.00
OW4-4	8.0'-8.5'	DODECANE	18.0000	UG/KG	< 0.00
OW4-4	8.0'-8.5'	UNIDENTIFIED ALKANE	18.0000	UG/KG	< 0.00
OW4-4	8.0'-8.5'	TRIDECANE	17.0000	UG/KG	< 0.00
OW4-4	8.0'-8.5'	UNIDENTIFIED ALKANE	14.0000	UG/KG	< 0.00
OW4-4	8.0'-8.5'	TETRADECANE	11.0000	UG/KG	< 0.00
OW4-7	23.0'-24.0'	BENZENE	0.0000	UG/KG	< 2.00
OW4-7	23.0'-24.0'	TOLUENE	0.0000	UG/KG	< 2.00
OW4-7	23.0'-24.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OW4-7	23.0'-24.0'	XYLENES	0.0000	UG/KG	< 2.00
OW4-7	23.0'-24.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW4-7	23.0'-24.0'	TOTAL PETROLEUM HYDROCARBON	18.0000	MG/KG	< 10.00
OW4-7	23.0'-24.0'	TOTAL SOLIDS	0.0000	%	< 1.00
OW4-9	34.0'-35.0'	BENZENE	0.0000	UG/KG	< 2.00
OW4-9	34.0'-35.0'	TOLUENE	0.0000	UG/KG	< 2.00
OW4-9	34.0'-35.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OW4-9	34.0'-35.0'	XYLENES	0.0000	UG/KG	< 2.00
OW4-9	34.0'-35.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW4-9	34.0'-35.0'	TOTAL PETROLEUM HYDROCARBON	50.0000	MG/KG	< 10.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
044-9	34.0'-35.0'	TOTAL SOLIDS	88.0000	%	< 1.00
TB-1		BENZENE	0.0000	UG/L	< 1.00
TB-1		TOLUENE	0.0000	UG/L	< 1.00
TB-1		ETHYLBENZENE	0.0000	UG/L	< 1.00
TB-1		XYLENES	3.0000	UG/L	< 1.00
TB-1		TOTAL PETROLEUM HYDROCARBONS	0.0000	MG/L	< 1.00
TB-1		METHYL TERTIARY BUTYL ETHER	0.0000	UG/L	< 5.00
TB-2		METHYL TERTIARY BUTYL ETHER	0.0000	UG/L	< 5.00
TB-2		CHLOROMETHANE	0.0000	UG/KG	< 10.00
TB-2		BROMOMETHANE	0.0000	UG/KG	< 10.00
TB-2		VINYL CHLORIDE	0.0000	UG/KG	< 10.00
TB-2		CHLOROETHANE	0.0000	UG/KG	< 10.00
TB-2		METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
TB-2		ACETONE	0.0000	UG/KG	< 100.00
TB-2		CARBON DISULFIDE	0.0000	UG/KG	< 5.00
TB-2		1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-2		1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-2		1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-2		CHLOROFORM	0.0000	UG/KG	< 5.00
TB-2		1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-2		2-BUTANONE	0.0000	UG/KG	< 100.00
TB-2		1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-2		CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
TB-2		VINYL ACETATE	0.0000	UG/KG	< 50.00
TB-2		BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
TB-2		1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
TB-2		CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
TB-2		TRICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-2		CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
TB-2		1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-2		BENZENE	0.0000	UG/KG	< 5.00
TB-2		TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
TB-2		BROMOFORM	0.0000	UG/KG	< 5.00
TB-2		2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
TB-2		4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
TB-2		2-HEXANONE	0.0000	UG/KG	< 50.00
TB-2		TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
TB-2		TOLUENE	0.0000	UG/KG	< 5.00
TB-2		1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
TB-2		CHLOROBENZENE	0.0000	UG/KG	< 5.00
TB-2		ETHYLBENZENE	0.0000	UG/KG	< 5.00
TB-2		STYRENE	0.0000	UG/KG	< 5.00
TB-2		XYLENES	0.0000	UG/KG	< 5.00
TB-3		BENZENE	0.0000	UG/KG	< 5.00
TB-3		TOLUENE	0.0000	UG/L	< 1.00
TB-3		ETHYLBENZENE	0.0000	UG/L	< 1.00
TB-3		XYLENES	0.0000	UG/L	< 1.00
TB-3		METHYL TERTIARY BUTYL ETHER	0.0000	UG/L	< 5.00
TB-3		CHLOROMETHANE	0.0000	UG/KG	< 10.00
TB-3		BROMOMETHANE	0.0000	UG/KG	< 10.00
TB-3		VINYL CHLORIDE	0.0000	UG/KG	< 10.00
TB-3		CHLOROETHANE	0.0000	UG/KG	< 10.00
TB-3		METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
TB-3		ACETONE	0.0000	UG/KG	< 100.00
TB-3		CARBON DISULFIDE	0.0000	UG/KG	< 5.00
TB-3		1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-3		1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-3		1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-3		CHLOROFORM	0.0000	UG/KG	< 5.00
TB-3		1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-3		2-BUTANONE	0.0000	UG/KG	< 100.00
TB-3		1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-3		CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
TB-3		VINYL ACETATE	0.0000	UG/KG	< 50.00
TB-3		BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
TB-3		1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
TB-3		CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
TB-3		TRICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-3		CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
TB-3		1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
TB-3		TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
TB-3		BROMOFORM	0.0000	UG/KG	< 5.00
TB-3		2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
TB-3		4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
TB-3		2-HEXANONE	0.0000	UG/KG	< 50.00
TB-3		TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
TB-3		1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
TB-3		CHLOROBENZENE	0.0000	UG/KG	< 5.00
TB-3		ETHYLBENZENE	0.0000	UG/KG	< 5.00
TB-3		STYRENE	0.0000	UG/KG	< 5.00
TB-3		XYLENES	0.0000	UG/KG	< 5.00
TB-3		PHENOL	0.0000	UG/KG	< 660.00
TB-3		2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
TB-3		2-METHYLPHENOL	0.0000	UG/KG	< 660.00
TB-3		4-METHYLPHENOL	0.0000	UG/KG	< 660.00
TB-3		2-NITROPHENOL	0.0000	UG/KG	< 660.00
TB-3		2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
TB-3		BENZOIC ACID	0.0000	UG/KG	< 3300.00
TB-3		2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
TB-3		4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
TB-3		2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
TB-3		2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
TB-3		2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
TB-3		4-NITROPHENOL	0.0000	UG/KG	< 3300.00
TB-3		4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
TB-3		PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
TB-3		BIS(2-CHLOROETHYL) ETHER	0.0000	UG/KG	< 660.00
TB-3		1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
TB-3		1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
TB-3		BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
TB-3		1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
TB-3		BIS(2-CHLOROISOPROPYL) ETHER	0.0000	UG/KG	< 660.00
TB-3		N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
TB-3		HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
TB-3		NITROBENZENE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
TB-3		ISOPHORONE	0.0000	UG/KG	< 660.00
TB-3		BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
TB-3		1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
TB-3		NAPHTHALENE	0.0000	UG/KG	< 660.00
TB-3		4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
TB-3		HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
TB-3		2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
TB-3		HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
TB-3		2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
TB-3		2-NITROANILINE	0.0000	UG/KG	< 3300.00
TB-3		DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
TB-3		ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
TB-3		2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
TB-3		3-NITROANILINE	0.0000	UG/KG	< 3300.00
TB-3		ACENAPHTHENE	0.0000	UG/KG	< 660.00
TB-3		DIBENZOFURAN	0.0000	UG/KG	< 660.00
TB-3		2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
TB-3		DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
TB-3		4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
TB-3		FLUORENE	0.0000	UG/KG	< 660.00
TB-3		4-NITROANILINE	0.0000	UG/KG	< 3300.00
TB-3		N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
TB-3		4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
TB-3		HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
TB-3		PHENANTHRENE	0.0000	UG/KG	< 660.00
TB-3		ANTHRACENE	0.0000	UG/KG	< 660.00
TB-3		DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
TB-3		FLUORANTHENE	0.0000	UG/KG	< 660.00
TB-3		PYRENE	0.0000	UG/KG	< 660.00
TB-3		BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
TB-3		3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
TB-3		BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
TB-3		CHRYSENE	0.0000	UG/KG	< 660.00
TB-3		BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
TB-3		DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00



FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
TB-3		BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
TB-3		BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
TB-3		BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
TB-3		INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
TB-3		DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
TB-3		BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
TB-3		BENZENE	0.0000	UG/KG	< 5.00
TB-3		TOLUENE	0.0000	UG/KG	< 5.00
TB-4		METHYL TERTIARY BUTYL ETHER	0.0000	UG/L	< 5.00
TB-4		CHLOROMETHANE	0.0000	UG/L	< 10.00
TB-4		BROMOMETHANE	0.0000	UG/L	< 10.00
TB-4		VINYL CHLORIDE	0.0000	UG/L	< 10.00
TB-4		CHLOROETHANE	0.0000	UG/L	< 10.00
TB-4		METHYLENE CHLORIDE	0.0000	UG/L	< 5.00
TB-4		ACETONE	0.0000	UG/L	< 100.00
TB-4		CARBON DISULFIDE	0.0000	UG/L	< 5.00
TB-4		1,1-DICHLOROETHENE	0.0000	UG/L	< 5.00
TB-4		1,1-DICHLOROETHANE	0.0000	UG/L	< 5.00
TB-4		1,2-DICHLOROETHENE	0.0000	UG/L	< 5.00
TB-4		CHLOROFORM	0.0000	UG/L	< 5.00
TB-4		1,2-DICHLOROETHANE	0.0000	UG/L	< 5.00
TB-4		2-BUTANONE	0.0000	UG/L	< 100.00
TB-4		1,1,1-TRICHLOROETHANE	0.0000	UG/L	< 5.00
TB-4		CARBON TETRACHLORIDE	0.0000	UG/L	< 5.00
TB-4		VINYL ACETATE	0.0000	UG/L	< 50.00
TB-4		BROMODICHLOROMETHANE	0.0000	UG/L	< 5.00
TB-4		1,2-DICHLOROPROPANE	0.0000	UG/L	< 5.00
TB-4		CIS-1,3-DICHLOROPROPENE	0.0000	UG/L	< 5.00
TB-4		TRICHLOROETHENE	0.0000	UG/L	< 5.00
TB-4		CHLORODIBROMOMETHANE	0.0000	UG/L	< 5.00
TB-4		1,1,2-TRICHLOROETHANE	0.0000	UG/L	< 5.00
TB-4		BENZENE	0.0000	UG/L	< 5.00
TB-4		TRANS-1,3-DICHLOROPROPENE	0.0000	UG/L	< 5.00
TB-4		BROMOFORM	0.0000	UG/L	< 5.00
TB-4		2-CHLOROETHYL VINYL ETHER	0.0000	UG/L	< 10.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
TB-4		4-METHYL-2-PENTANONE	0.0000	UG/L	< 50.00
TB-4		2-HEXANONE	0.0000	UG/L	< 50.00
TB-4		TETRACHLOROETHENE	0.0000	UG/L	< 5.00
TB-4		TOLUENE	0.0000	UG/L	< 5.00
TB-4		1,1,2,2-TETRACHLOROETHANE	0.0000	UG/L	< 5.00
TB-4		CHLOROBENZENE	0.0000	UG/L	< 5.00
TB-4		ETHYLBENZENE	0.0000	UG/L	< 5.00
TB-4		STYRENE	0.0000	UG/L	< 5.00
TB-4		XYLENES	0.0000	UG/L	< 5.00



July 30, 1991

ENSR Consulting  
and Engineering  
3000 Richmond Avenue  
Houston, Texas 77098  
(713) 520-9900  
(713) 520-6802 (FAX)

Mr. Roger C. Anderson  
Environmental Engineer  
State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
P.O. Box 2088  
State Land Office Building  
Santa Fe, New Mexico 87504

RE: Concrete Slabs at Homco Site 135 in Hobbs, New Mexico

Dear Mr. Anderson:

This letter has been written in response to your telephone conversation with Ms. Darlene Venable on July 30, 1991. In this letter ENSR proposes that concrete slabs are not required to cover the former mud tank cleaning area and the former bulk fuel dispensing area at Homco Site 135 in Hobbs, New Mexico. The proposals are supported by analytical data from soil samples collected in borings OW3 (bulk fuel dispensing area) and OW4 (mud tank cleaning area) during the current soils and groundwater investigation (Figure 1). The Oil Conservation Division approved workplan for the investigation (March 1991) describes the methods used to collect and analyze soil samples. A detailed description of the soil sampling program will be included in the final investigation report.

The full list of analytical results is presented in Attachment 1. Attachment 1 is a preliminary presentation of the data. The analytical results have passed validation criteria of the Site Quality Assurance/Quality Control Plan (January, 1991) following the draft document titled Laboratory Data Validation Functional Guidelines for Evaluating Organic Analyses (U.S.E.P.A, February 1, 1988). The details of validation procedures will be presented in the final report.

Where detected, Total Petroleum Hydrocarbon (TPH) concentrations were at background levels.

The following compounds were detected: tricosane, tetracosane, heneicosane, eicosane, dodecane, tridecane, tetradecane and docosane. These alkanes are often components of a semi-solid material called Petrolatum (Merck Index 1989). Petrolatum is used in lubricants and rust preventatives such as Petroleum Jelly, paraffin jelly and Vaseline. Coverage of the soils containing these compounds is not considered necessary for the following reasons:

# ENSR

July 30, 1991  
Mr. Roger C. Anderson  
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- The compounds are not on the Target Compound List from the U.S.E.P.A Contract Laboratory Program Statement of Work (10/86, Rev. 7/87).
- The compounds are insoluble in water and alcohol (Remington's Pharmaceutical Sciences, 1980; Merck Index, 1989).
- Petrolatum has a low toxicity as evidenced by it's use as a mild laxative, a base for ointments, a base for burn dressings and as a vehicle for inhaled drugs. The last use has been discontinued because it possibly causes lipid pneumonia (Remington's Pharmaceutical Sciences, 1980).


Although concrete slabs are not required, the ground surface in these areas will be graded to prevent runoff from leaving the Homco property. If you approve of this proposal, please send a response letter to myself at the following address:

ENSR Consulting and Engineering  
Attn: David Dorrance  
3000 Richmond Ave.  
Houston, Texas 77098  
FAX: (713)520-6802

Sincerely,



David Dorrance  
Senior Project Water Resources Engineer

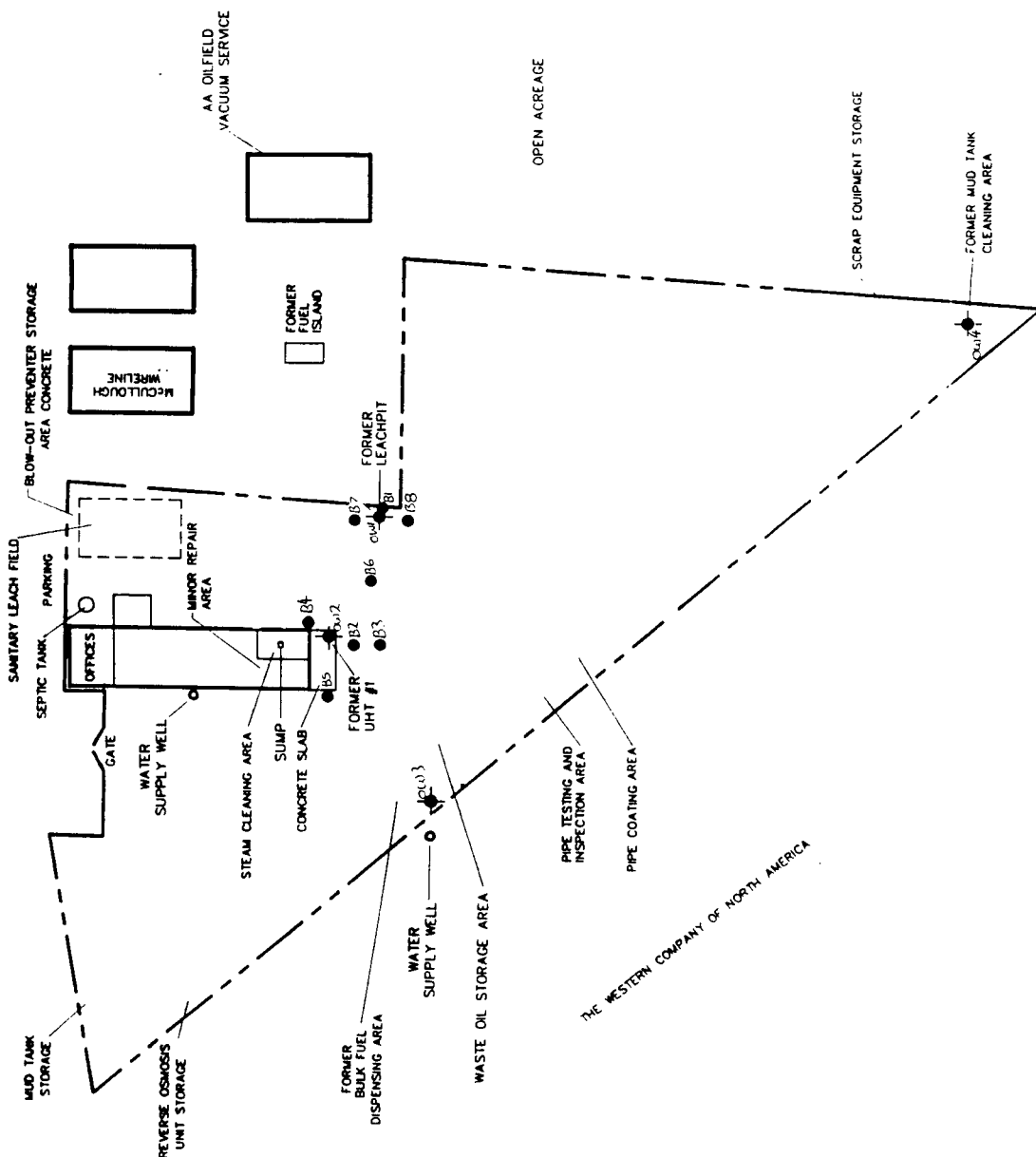


Scott Laidlaw  
Project Management and Administration

Reference No. 3519-006-135

WM. BILLY WALKER TRUCKING

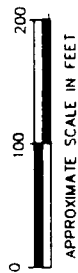
WEST COUNTY ROAD



LEGEND:

- = BORING CONVERTED TO A OBSERVATION WELL
- = SOIL BORINGS
- = POTENTIAL LOCATION OF SUBSEQUENT SOIL BORING (20 FT. SPACING)

UHT = UNDERGROUND HOLDING TANK



ENSR

ENSR CONSULTING AND ENGINEERING

FIGURE 2/2/2

LOCATION OF SOIL BORINGS  
HOWCO SITE NO. 135  
HOBBS, NEW MEXICO

DRAWN BY: SJ/SJF	DATE: 3-21-91	PROJECT NUMBER: 3519-006-135
CHECKED BY: ...	REVISED:	

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
042-5	9.5'-10.0'	UNIDENTIFIED ALKANE	2600.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNIDENTIFIED CYCLIC HYDROCARBON	3700.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	DECANE	6500.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNIDENTIFIED ALKENE	7900.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	DIMETHYLNONANE	8000.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	TRIMETHYLOCTANE	14000.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNIDENTIFIED ALKENE	3000.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNDECANE	10000.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	METHYL-METHYLETHYLBENZENE	1300.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNIDENTIFIED CYCLIC HYDROCARBON	3700.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	DECAHYDRO-METHYLNAPHTHALENE	1200.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	UNIDENTIFIED ALKANE	1400.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	ETHYL-DIMETHYLBENZENE	1000.0000	UG/KG	< 0.00
042-5	9.5'-10.0'	TOTAL SOLIDS	90.0000	%	< 1.00
042-8	23.0'-23.5'	BENZENE	0.0000	UG/KG	< 2.00
042-8	23.0'-23.5'	TOLUENE	0.0000	UG/KG	< 2.00
042-8	23.0'-23.5'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
042-8	23.0'-23.5'	XYLENES	0.0000	UG/KG	< 2.00
042-8	23.0'-23.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
042-8	23.0'-23.5'	TOTAL PETROLEUM HYDROCARBONS	48.0000	MG/KG	< 10.00
042-8	23.0'-23.5'	TOTAL SOLIDS	83.0000	%	< 1.00
042-9	29.0'-30.0'	BENZENE	0.0000	UG/KG	< 2.00
042-9	29.0'-30.0'	TOLUENE	0.0000	UG/KG	< 2.00
042-9	29.0'-30.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
042-9	29.0'-30.0'	XYLENES	0.0000	UG/KG	< 2.00
042-9	29.0'-30.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
042-9	29.0'-30.0'	TOTAL PETROLEUM HYDROCARBONS	11.0000	MG/KG	< 10.00
042-9	29.0'-30.0'	TOTAL SOLIDS	84.0000	%	< 1.00
043-10	53.0'-54.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
043-10	53.0'-54.0'	TOTAL SOLIDS	85.0000	%	< 1.00
043-10	53.0'-54.0'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
043-10	53.0'-54.0'	BROMOMETHANE	0.0000	UG/KG	< 10.00
043-10	53.0'-54.0'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
043-10	53.0'-54.0'	CHLOROETHANE	0.0000	UG/KG	< 10.00
043-10	53.0'-54.0'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00

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FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW3-10	53.0'-54.0'	ACETONE	0.0000	UG/KG	< 100.00
OW3-10	53.0'-54.0'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	CHLOROFORM	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	2-BUTANONE	0.0000	UG/KG	< 100.00
OW3-10	53.0'-54.0'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	VINYL ACETATE	0.0000	UG/KG	< 50.00
OW3-10	53.0'-54.0'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	BENZENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	BROMOFORM	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
OW3-10	53.0'-54.0'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
OW3-10	53.0'-54.0'	2-HEXANONE	0.0000	UG/KG	< 50.00
OW3-10	53.0'-54.0'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	TOLUENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	STYRENE	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	XYLENES	0.0000	UG/KG	< 5.00
OW3-10	53.0'-54.0'	PHENOL	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW3-10	53.0'-54.0'	2-NITROPHENOL	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
043-10	53.0'-54.0'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
043-10	53.0'-54.0'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
043-10	53.0'-54.0'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
043-10	53.0'-54.0'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
043-10	53.0'-54.0'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
043-10	53.0'-54.0'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
043-10	53.0'-54.0'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
043-10	53.0'-54.0'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
043-10	53.0'-54.0'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	NITROBENZENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	ISOPHORONE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	NAPHTHALENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
043-10	53.0'-54.0'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
043-10	53.0'-54.0'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
043-10	53.0'-54.0'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	DIBENZOFURAN	0.0000	UG/KG	< 660.00



07/16/91

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
043-10	53.0'-54.0'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	FLUORENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
043-10	53.0'-54.0'	N-NITROSODIPHENYLAMINE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	PHENANTHRENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	ANTHRACENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	FLUORANTHENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	PYRENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	3,3'-DICHLOOROBENZIDINE	0.0000	UG/KG	< 1300.00
043-10	53.0'-54.0'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	CHRYSENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	BENZO(G,H,1)PERYLENE	0.0000	UG/KG	< 660.00
043-10	53.0'-54.0'	EICOSANE	660.0000	UG/KG	< 0.00
043-10	53.0'-54.0'	HENTECOSANE	1200.0000	UG/KG	< 0.00
043-10	53.0'-54.0'	DOCOSANE	970.0000	UG/KG	< 0.00
043-10	53.0'-54.0'	TRICOSANE	670.0000	UG/KG	< 0.00
043-10	53.0'-54.0'	TETRACOSANE	1000.0000	UG/KG	< 0.00
043-11	61.0'-62.0'	BENZENE	0.0000	UG/KG	< 2.00
043-11	61.0'-62.0'	TOLUENE	0.0000	UG/KG	< 2.00
043-11	61.0'-62.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
043-11	61.0'-62.0'	XYLENES	0.0000	UG/KG	< 2.00
043-11	61.0'-62.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW3-11	61.0'-62.0'	TOTAL PETROLEUM HYDROCARBON	15.0000	MG/KG	< 10.00
OW3-11	61.0'-62.0'	TOTAL SOLIDS	83.0000	%	< 1.00
OW3-3	4.5'-5.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/L	< 10.00
OW3-3	4.5'-5.5'	TOTAL SOLIDS	87.0000	%	< 1.00
OW3-30	4.5'-5.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	TOTAL SOLIDS	87.0000	%	< 1.00
OW3-30	4.5'-5.5'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	BROMOMETHANE	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	CHLOROETHANE	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	ACETONE	0.0000	UG/KG	< 100.00
OW3-30	4.5'-5.5'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	CHLOROFORM	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	2-BUTANONE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 100.00
OW3-30	4.5'-5.5'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	VINYL ACETATE	0.0000	UG/KG	< 50.00
OW3-30	4.5'-5.5'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	BENZENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	BROMOFORM	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
OW3-30	4.5'-5.5'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
OW3-30	4.5'-5.5'	2-HEXANONE	0.0000	UG/KG	< 50.00
OW3-30	4.5'-5.5'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW3-30	4.5'-5.5'	TOLUENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	STYRENE	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	XYLENES	0.0000	UG/KG	< 5.00
OW3-30	4.5'-5.5'	PHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
OW3-30	4.5'-5.5'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
OW3-30	4.5'-5.5'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
OW3-30	4.5'-5.5'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	NITROBENZENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	ISOPHORONE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	NAPHTHALENE	0.0000	UG/KG	< 660.00
OW3-30	4.5'-5.5'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
043-30	4.5'-5.5'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
043-30	4.5'-5.5'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
043-30	4.5'-5.5'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	FLUORENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
043-30	4.5'-5.5'	N-NITRODIPHENYLAMINE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	PHENANTHRENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	ANTHRACENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	FLUORANTHENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	PYRENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
043-30	4.5'-5.5'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	CHRYSENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
043-30	4.5'-5.5'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW3-3D	4.5'-5.5'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
OW3-7	21.5'-22.5'	BENZENE	0.0000	UG/KG	< 2.00
OW3-7	21.5'-22.5'	TOLUENE	0.0000	UG/KG	< 2.00
OW3-7	21.5'-22.5'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OW3-7	21.5'-22.5'	XYLENES	0.0000	UG/KG	< 2.00
OW3-7	21.5'-22.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW3-7	21.5'-22.5'	TOTAL PETROLEUM HYDROCARBON	20.0000	MG/KG	< 10.00
OW3-7	21.5'-22.5'	TOTAL SOLIDS	90.0000	%	< 1.00
OW3-9	39.5'-40.5'	BENZENE	0.0000	UG/KG	< 2.00
OW3-9	39.5'-40.5'	TOLUENE	0.0000	UG/KG	< 2.00
OW3-9	39.5'-40.5'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OW3-9	39.5'-40.5'	XYLENES	0.0000	UG/KG	< 2.00
OW3-9	39.5'-40.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW3-9	39.5'-40.5'	TOTAL PETROLEUM HYDROCARBON	28.0000	MG/KG	< 10.00
OW3-9	39.5'-40.5'	TOTAL SOLIDS	83.0000	%	< 1.00
OW4-11	52.0'-53.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OW4-11	52.0'-53.0'	TOTAL SOLIDS	82.0000	%	< 1.00
OW4-11	52.0'-53.0'	CHLOROMETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BROMOMETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	VINYL CHLORIDE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	CHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	METHYLENE CHLORIDE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	ACETONE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	CARBON DISULFIDE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	CHLOROFORM	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-BUTANONE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	VINYL ACETATE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 0.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
0M4-11	52.0'-53.0'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	TRICHLOROETHENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	BENZENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	BROMOFORM	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	2-HEXANONE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	TETRACHLOROETHENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	TOLUENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	CHLOROBENZENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	ETHYLBENZENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	STYRENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	XYLENES	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	PHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	2-CHLOROPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	2-METHYLPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	4-METHYLPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	2-NITROPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	BENZOIC ACID	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	2,4-DINITROPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	4-NITROPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	PENTACHLOROPHENOL	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 0.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OW4-11	52.0'-53.0'	BENZYL ALCOHOL	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	HEXACHLOROETHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	NITROBENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	ISOPHORONE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	NAPHTHALENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-CHLOROANILINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	HEXACHLOROBTADIENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2-NITROANILINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	ACENAPHTHYLENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	3-NITROANILINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	ACENAPHTHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	DIBENZOFURAN	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	DIETHYLPHTHALATE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	FLUORENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-NITROANILINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	N-NITROSDIPHENYLAMINE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	HEXACHLOROBENZENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	PHENANTHRENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	ANTHRACENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	FLUORANTHENE	0.0000	UG/KG	< 0.00
OW4-11	52.0'-53.0'	PYRENE	0.0000	UG/KG	< 0.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
0M4-11	52.0'-53.0'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	3,3'-DICHLOOROBENZIDINE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	CHRYSENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	BENZO(A)PYRENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 0.00
0M4-11	52.0'-53.0'	BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 0.00
0M4-12	61.0'-62.0'	BENZENE	0.0000	UG/KG	< 2.00
0M4-12	61.0'-62.0'	TOLUENE	0.0000	UG/KG	< 2.00
0M4-12	61.0'-62.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
0M4-12	61.0'-62.0'	XYLENES	0.0000	UG/KG	< 2.00
0M4-12	61.0'-62.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
0M4-12	61.0'-62.0'	TOTAL PETROLEUM HYDROCARBON	0.0000	MG/KG	< 10.00
0M4-12	61.0'-62.0'	TOTAL SOLIDS	86.0000	%	< 1.00
0M4-4	8.0'-8.5'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
0M4-4	8.0'-8.5'	TOTAL SOLIDS	85.0000	%	< 1.00
0M4-4	8.0'-8.5'	CHLOROMETHANE	0.0000	UG/KG	< 10.00
0M4-4	8.0'-8.5'	BROMOMETHANE	0.0000	UG/KG	< 10.00
0M4-4	8.0'-8.5'	VINYL CHLORIDE	0.0000	UG/KG	< 10.00
0M4-4	8.0'-8.5'	CHLOROETHANE	0.0000	UG/KG	< 10.00
0M4-4	8.0'-8.5'	METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
0M4-4	8.0'-8.5'	ACETONE	0.0000	UG/KG	< 100.00
0M4-4	8.0'-8.5'	CARBON DISULFIDE	0.0000	UG/KG	< 5.00
0M4-4	8.0'-8.5'	1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
0M4-4	8.0'-8.5'	1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
0M4-4	8.0'-8.5'	1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
0M4-4	8.0'-8.5'	CHLOROFORM	0.0000	UG/KG	< 5.00
0M4-4	8.0'-8.5'	1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
0M4-4	8.0'-8.5'	2-BUTANONE	0.0000	UG/KG	< 100.00
0M4-4	8.0'-8.5'	1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00



FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OM4-4	8.0'-8.5'	CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	VINYL ACETATE	0.0000	UG/KG	< 50.00
OM4-4	8.0'-8.5'	BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	TRICHLOROETHENE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	BENZENE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	BROMOFORM	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
OM4-4	8.0'-8.5'	4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
OM4-4	8.0'-8.5'	2-HEXANONE	0.0000	UG/KG	< 50.00
OM4-4	8.0'-8.5'	TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	TOLUENE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	CHLOROBENZENE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	ETHYLBENZENE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	STYRENE	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	XYLENES	0.0000	UG/KG	< 5.00
OM4-4	8.0'-8.5'	PHENOL	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	2-METHYLPHENOL	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	4-METHYLPHENOL	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	2-NITROPHENOL	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	BENZOIC ACID	0.0000	UG/KG	< 3300.00
OM4-4	8.0'-8.5'	2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
OM4-4	8.0'-8.5'	2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
OM4-4	8.0'-8.5'	2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
OM4-4	8.0'-8.5'	4-NITROPHENOL	0.0000	UG/KG	< 3300.00
OM4-4	8.0'-8.5'	4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OM4-4	8.0'-8.5'	PENTACHLOROPHENOL	0.0000	UG/KG	< 3300.00
OM4-4	8.0'-8.5'	BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
OM4-4	8.0'-8.5'	1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	NITROBENZENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	ISOPHORONE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	NAPHTHALENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
OM4-4	8.0'-8.5'	HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	2-NITROANILINE	0.0000	UG/KG	< 3300.00
OM4-4	8.0'-8.5'	DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	3-NITROANILINE	0.0000	UG/KG	< 3300.00
OM4-4	8.0'-8.5'	ACENAPHTHENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	DIBENZOFURAN	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	FLUORENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	4-NITROANILINE	0.0000	UG/KG	< 3300.00
OM4-4	8.0'-8.5'	N-NITROSO-DIPHENYLAMINE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	PHENANTHRENE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
OM4-4	8.0'-8.5'	ANTHRACENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	FLUORANTHENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	PYRENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
OM4-4	8.0'-8.5'	BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	CHRYSENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	BENZO(G,H,1)PERYLENE	0.0000	UG/KG	< 660.00
OM4-4	8.0'-8.5'	HEWEICOSANE	700.0000	UG/KG	< 0.00
OM4-4	8.0'-8.5'	DODECANE	18.0000	UG/KG	< 0.00
OM4-4	8.0'-8.5'	UNIDENTIFIED ALKANE	18.0000	UG/KG	< 0.00
OM4-4	8.0'-8.5'	TRIDECANE	17.0000	UG/KG	< 0.00
OM4-4	8.0'-8.5'	UNIDENTIFIED ALKANE	14.0000	UG/KG	< 0.00
OM4-4	8.0'-8.5'	TETRADECANE	11.0000	UG/KG	< 0.00
OM4-7	23.0'-24.0'	BENZENE	0.0000	UG/KG	< 2.00
OM4-7	23.0'-24.0'	TOLUENE	0.0000	UG/KG	< 2.00
OM4-7	23.0'-24.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OM4-7	23.0'-24.0'	XYLENES	0.0000	UG/KG	< 2.00
OM4-7	23.0'-24.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OM4-7	23.0'-24.0'	TOTAL PETROLEUM HYDROCARBON	18.0000	MG/KG	< 10.00
OM4-7	23.0'-24.0'	TOTAL SOLIDS	0.0000	%	< 1.00
OM4-9	34.0'-35.0'	BENZENE	0.0000	UG/KG	< 2.00
OM4-9	34.0'-35.0'	TOLUENE	0.0000	UG/KG	< 2.00
OM4-9	34.0'-35.0'	ETHYLBENZENE	0.0000	UG/KG	< 2.00
OM4-9	34.0'-35.0'	XYLENES	0.0000	UG/KG	< 2.00
OM4-9	34.0'-35.0'	METHYL TERTIARY BUTYL ETHER	0.0000	UG/KG	< 10.00
OM4-9	34.0'-35.0'	TOTAL PETROLEUM HYDROCARBON	50.0000	MG/KG	< 10.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
044-9	34.0'-35.0'	TOTAL SOLIDS	88.0000	%	< 1.00
TB-1		BENZENE	0.0000	UG/L	< 1.00
TB-1		TOLUENE	0.0000	UG/L	< 1.00
TB-1		ETHYLBENZENE	0.0000	UG/L	< 1.00
TB-1		XYLENES	3.0000	UG/L	< 1.00
TB-1		TOTAL PETROLEUM HYDROCARBONS	0.0000	MG/L	< 1.00
TB-1		METHYL TERTIARY BUTYL ETHER	0.0000	UG/L	< 5.00
TB-2		METHYL TERTIARY BUTYL ETHER	0.0000	UG/L	< 5.00
TB-2		CHLOROMETHANE	0.0000	UG/KG	< 10.00
TB-2		BROMOMETHANE	0.0000	UG/KG	< 10.00
TB-2		VINYL CHLORIDE	0.0000	UG/KG	< 10.00
TB-2		CHLOROETHANE	0.0000	UG/KG	< 10.00
TB-2		METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
TB-2		ACETONE	0.0000	UG/KG	< 100.00
TB-2		CARBON DISULFIDE	0.0000	UG/KG	< 5.00
TB-2		1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-2		1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-2		1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-2		CHLOROFORM	0.0000	UG/KG	< 5.00
TB-2		1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-2		2-BUTANONE	0.0000	UG/KG	< 100.00
TB-2		1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-2		CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
TB-2		VINYL ACETATE	0.0000	UG/KG	< 50.00
TB-2		BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
TB-2		1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
TB-2		CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
TB-2		TRICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-2		CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
TB-2		1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-2		BENZENE	0.0000	UG/KG	< 5.00
TB-2		TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
TB-2		BROMOFORM	0.0000	UG/KG	< 5.00
TB-2		2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
TB-2		4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
TB-2		2-HEXANONE	0.0000	UG/KG	< 50.00
TB-2		TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
TB-2		TOLUENE	0.0000	UG/KG	< 5.00
TB-2		1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
TB-2		CHLOROBENZENE	0.0000	UG/KG	< 5.00
TB-2		ETHYLBENZENE	0.0000	UG/KG	< 5.00
TB-2		STYRENE	0.0000	UG/KG	< 5.00
TB-2		XYLENES	0.0000	UG/KG	< 5.00
TB-3		BENZENE	0.0000	UG/L	< 1.00
TB-3		TOLUENE	0.0000	UG/L	< 1.00
TB-3		ETHYLBENZENE	0.0000	UG/L	< 1.00
TB-3		XYLENES	0.0000	UG/L	< 1.00
TB-3		METHYL TERTIARY BUTYL ETHER	0.0000	UG/L	< 5.00
TB-3		CHLOROMETHANE	0.0000	UG/KG	< 10.00
TB-3		BROMOMETHANE	0.0000	UG/KG	< 10.00
TB-3		VINYL CHLORIDE	0.0000	UG/KG	< 10.00
TB-3		CHLOROETHANE	0.0000	UG/KG	< 10.00
TB-3		METHYLENE CHLORIDE	0.0000	UG/KG	< 5.00
TB-3		ACETONE	0.0000	UG/KG	< 100.00
TB-3		CARBON DISULFIDE	0.0000	UG/KG	< 5.00
TB-3		1,1-DICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-3		1,1-DICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-3		1,2-DICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-3		CHLOROFORM	0.0000	UG/KG	< 5.00
TB-3		1,2-DICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-3		2-BUTANONE	0.0000	UG/KG	< 100.00
TB-3		1,1,1-TRICHLOROETHANE	0.0000	UG/KG	< 5.00
TB-3		CARBON TETRACHLORIDE	0.0000	UG/KG	< 5.00
TB-3		VINYL ACETATE	0.0000	UG/KG	< 50.00
TB-3		BROMODICHLOROMETHANE	0.0000	UG/KG	< 5.00
TB-3		1,2-DICHLOROPROPANE	0.0000	UG/KG	< 5.00
TB-3		CIS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
TB-3		TRICHLOROETHENE	0.0000	UG/KG	< 5.00
TB-3		CHLORODIBROMOMETHANE	0.0000	UG/KG	< 5.00
TB-3		1,1,2-TRICHLOROETHANE	0.0000	UG/KG	< 5.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
TB-3		TRANS-1,3-DICHLOROPROPENE	0.0000	UG/KG	< 5.00
TB-3		BROMOFORM	0.0000	UG/KG	< 5.00
TB-3		2-CHLOROETHYL VINYL ETHER	0.0000	UG/KG	< 10.00
TB-3		4-METHYL-2-PENTANONE	0.0000	UG/KG	< 50.00
TB-3		2-HEXANONE	0.0000	UG/KG	< 50.00
TB-3		TETRACHLOROETHENE	0.0000	UG/KG	< 5.00
TB-3		1,1,2,2-TETRACHLOROETHANE	0.0000	UG/KG	< 5.00
TB-3		CHLOROBENZENE	0.0000	UG/KG	< 5.00
TB-3		ETHYLBENZENE	0.0000	UG/KG	< 5.00
TB-3		STYRENE	0.0000	UG/KG	< 5.00
TB-3		XYLENES	0.0000	UG/KG	< 5.00
TB-3		PHENOL	0.0000	UG/KG	< 660.00
TB-3		2-CHLOROPHENOL	0.0000	UG/KG	< 660.00
TB-3		2-METHYLPHENOL	0.0000	UG/KG	< 660.00
TB-3		4-METHYLPHENOL	0.0000	UG/KG	< 660.00
TB-3		2-NITROPHENOL	0.0000	UG/KG	< 660.00
TB-3		2,4-DIMETHYLPHENOL	0.0000	UG/KG	< 660.00
TB-3		BENZOIC ACID	0.0000	UG/KG	< 3300.00
TB-3		2,4-DICHLOROPHENOL	0.0000	UG/KG	< 660.00
TB-3		4-CHLORO-3-METHYLPHENOL	0.0000	UG/KG	< 1300.00
TB-3		2,4,6-TRICHLOROPHENOL	0.0000	UG/KG	< 660.00
TB-3		2,4,5-TRICHLOROPHENOL	0.0000	UG/KG	< 3300.00
TB-3		2,4-DINITROPHENOL	0.0000	UG/KG	< 3300.00
TB-3		4-NITROPHENOL	0.0000	UG/KG	< 3300.00
TB-3		4,6-DINITRO-2-METHYLPHENOL	0.0000	UG/KG	< 3300.00
TB-3		PENTACHLOROPHENOL	0.0000	UG/KG	< 660.00
TB-3		BIS(2-CHLOROETHYL)ETHER	0.0000	UG/KG	< 660.00
TB-3		1,3-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
TB-3		1,4-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
TB-3		BENZYL ALCOHOL	0.0000	UG/KG	< 1300.00
TB-3		1,2-DICHLOROBENZENE	0.0000	UG/KG	< 660.00
TB-3		BIS(2-CHLOROISOPROPYL)ETHER	0.0000	UG/KG	< 660.00
TB-3		N-NITROSO-DI-N-PROPYLAMINE	0.0000	UG/KG	< 660.00
TB-3		HEXACHLOROETHANE	0.0000	UG/KG	< 660.00
TB-3		NITROBENZENE	0.0000	UG/KG	< 660.00

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
TB-3		ISOPHORONE	0.0000	UG/KG	< 660.00
TB-3		BIS(2-CHLOROETHOXY)METHANE	0.0000	UG/KG	< 660.00
TB-3		1,2,4-TRICHLOROBENZENE	0.0000	UG/KG	< 660.00
TB-3		NAPHTHALENE	0.0000	UG/KG	< 660.00
TB-3		4-CHLOROANILINE	0.0000	UG/KG	< 1300.00
TB-3		HEXACHLOROBUTADIENE	0.0000	UG/KG	< 660.00
TB-3		2-METHYLNAPHTHALENE	0.0000	UG/KG	< 660.00
TB-3		HEXACHLOROCYCLOPENTADIENE	0.0000	UG/KG	< 660.00
TB-3		2-CHLORONAPHTHALENE	0.0000	UG/KG	< 660.00
TB-3		2-NITROANILINE	0.0000	UG/KG	< 3300.00
TB-3		DIMETHYLPHTHALATE	0.0000	UG/KG	< 660.00
TB-3		ACENAPHTHYLENE	0.0000	UG/KG	< 660.00
TB-3		2,6-DINITROTOLUENE	0.0000	UG/KG	< 660.00
TB-3		3-NITROANILINE	0.0000	UG/KG	< 3300.00
TB-3		ACENAPHTHENE	0.0000	UG/KG	< 660.00
TB-3		DIBENZOFURAN	0.0000	UG/KG	< 660.00
TB-3		2,4-DINITROTOLUENE	0.0000	UG/KG	< 660.00
TB-3		DIETHYLPHTHALATE	0.0000	UG/KG	< 660.00
TB-3		4-CHLOROPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
TB-3		FLUORENE	0.0000	UG/KG	< 660.00
TB-3		4-NITROANILINE	0.0000	UG/KG	< 3300.00
TB-3		N-NITRODIPHENYLAMINE	0.0000	UG/KG	< 660.00
TB-3		4-BROMOPHENYLPHENYL ETHER	0.0000	UG/KG	< 660.00
TB-3		HEXACHLOROBENZENE	0.0000	UG/KG	< 660.00
TB-3		PHENANTHRENE	0.0000	UG/KG	< 660.00
TB-3		ANTHRACENE	0.0000	UG/KG	< 660.00
TB-3		DI-N-BUTYLPHTHALATE	0.0000	UG/KG	< 660.00
TB-3		FLUORANTHENE	0.0000	UG/KG	< 660.00
TB-3		PYRENE	0.0000	UG/KG	< 660.00
TB-3		BUTYL BENZYL PHTHALATE	0.0000	UG/KG	< 660.00
TB-3		3,3'-DICHLOROBENZIDINE	0.0000	UG/KG	< 1300.00
TB-3		BENZO(A)ANTHRACENE	0.0000	UG/KG	< 660.00
TB-3		CHRYSENE	0.0000	UG/KG	< 660.00
TB-3		BIS(2-ETHYLHEXYL)PHTHALATE	0.0000	UG/KG	< 660.00
TB-3		DI-N-OCTYLPHTHALATE	0.0000	UG/KG	< 660.00

07/16/91

FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
TB-3		BENZO(B)FLUORANTHENE	0.0000	UG/KG	< 660.00
TB-3		BENZO(K)FLUORANTHENE	0.0000	UG/KG	< 660.00
TB-3		BENZO(A)PYRENE	0.0000	UG/KG	< 660.00
TB-3		INDENO(1,2,3-CD)PYRENE	0.0000	UG/KG	< 660.00
TB-3		DIBENZO(A,H)ANTHRACENE	0.0000	UG/KG	< 660.00
TB-3		BENZO(G,H,I)PERYLENE	0.0000	UG/KG	< 660.00
TB-3		BENZENE	0.0000	UG/KG	< 5.00
TB-3		TOLUENE	0.0000	UG/KG	< 5.00
TB-4		METHYL TERTIARY BUTYL ETHER	0.0000	UG/L	< 5.00
TB-4		CHLOROMETHANE	0.0000	UG/L	< 10.00
TB-4		BROMOMETHANE	0.0000	UG/L	< 10.00
TB-4		VINYL CHLORIDE	0.0000	UG/L	< 10.00
TB-4		CHLOROETHANE	0.0000	UG/L	< 10.00
TB-4		METHYLENE CHLORIDE	0.0000	UG/L	< 5.00
TB-4		ACETONE	0.0000	UG/L	< 100.00
TB-4		CARBON DISULFIDE	0.0000	UG/L	< 5.00
TB-4		1,1-DICHLOROETHENE	0.0000	UG/L	< 5.00
TB-4		1,1-DICHLOROETHANE	0.0000	UG/L	< 5.00
TB-4		1,2-DICHLOROETHENE	0.0000	UG/L	< 5.00
TB-4		CHLOROFORM	0.0000	UG/L	< 5.00
TB-4		1,2-DICHLOROETHANE	0.0000	UG/L	< 5.00
TB-4		2-BUTANONE	0.0000	UG/L	< 100.00
TB-4		1,1,1-TRICHLOROETHANE	0.0000	UG/L	< 5.00
TB-4		CARBON TETRACHLORIDE	0.0000	UG/L	< 5.00
TB-4		VINYL ACETATE	0.0000	UG/L	< 50.00
TB-4		BROMOCHLOROMETHANE	0.0000	UG/L	< 5.00
TB-4		1,2-DICHLOROPROPANE	0.0000	UG/L	< 5.00
TB-4		CIS-1,3-DICHLOROPROPENE	0.0000	UG/L	< 5.00
TB-4		TRICHLOROETHENE	0.0000	UG/L	< 5.00
TB-4		CHLORODIBROMOMETHANE	0.0000	UG/L	< 5.00
TB-4		1,1,2-TRICHLOROETHANE	0.0000	UG/L	< 5.00
TB-4		BENZENE	0.0000	UG/L	< 5.00
TB-4		TRANS-1,3-DICHLOROPROPENE	0.0000	UG/L	< 5.00
TB-4		BROMOFORM	0.0000	UG/L	< 5.00
TB-4		2-CHLOROETHYL VINYL ETHER	0.0000	UG/L	< 10.00



FIELD ID	DEPTH	COMPOUND	CONC	UNITS	DETECTION LIMIT
TB-4		4-METHYL-2-PENTANONE	0.0000	UG/L	< 50.00
TB-4		2-HEXANONE	0.0000	UG/L	< 50.00
TB-4		TETRACHLOROETHENE	0.0000	UG/L	< 5.00
TB-4		TOLUENE	0.0000	UG/L	< 5.00
TB-4		1,1,2,2-TETRACHLOROETHANE	0.0000	UG/L	< 5.00
TB-4		CHLOROBENZENE	0.0000	UG/L	< 5.00
TB-4		ETHYLBENZENE	0.0000	UG/L	< 5.00
TB-4		STYRENE	0.0000	UG/L	< 5.00
TB-4		XYLENES	0.0000	UG/L	< 5.00

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

July 31, 1991

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

CERTIFIED MAIL  
RETURN RECEIPT NO. P-756-666-877

Mr. David Dorrance  
ENSR Consulting and Engineering  
3000 Richmond Avenue  
Houston, Texas 77098

RE: Concrete Slabs  
HOMCO Site 135  
Lea County, New Mexico

Dear Mr. Dorrance:

The Oil Conservation Division (OCD) has received your proposal, dated July 22, 1991, for concrete slabs to be placed over the former underground holding tank and leach pit.

Based on the information provided in your proposal, the location and size of the slabs is approved. Please notify this office when construction is complete.

If you have any questions, please call me at (505) 827-5884.

Sincerely,



Roger C. Anderson  
Environmental Engineer

RCA/sl

cc: OCD Hobbs Office

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

August 6, 1991

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

CERTIFIED MAIL  
RETURN RECEIPT NO. P-756-666-894

Mr. David Dorrance  
ENSR Consulting and Engineering  
3000 Richmond Avenue  
Houston, Texas 77098

Dear Mr. Dorrance:

The Oil Conservation Division (OCD) has received your proposal dated, July 30, 1991, to mound the surface area of the former mud tank cleaning area and the former bulk fuel area in lieu of paving.

Based on the information and analytical results contained in your proposal, mounding of the surface to prevent ponding of fluids on these areas is approved.

If you have any questions, please call me at (505) 827-5884.

Sincerely,



Roger C. Anderson  
Environmental Engineer

RCA/sl

cc: OCD Hobbs Office

B

**APPENDIX B**  
**DEVIATIONS FROM THE WORKPLAN**

**Affected Portions of the Workplan:** Section 2.2, Section 3.2

**Activity Described in the Workplan:** "All drilling cuttings and fluids will be placed in 55-gallon drums for off-site disposal."

**Changes to the Described Activity:** Drilling cuttings were placed in a 10-foot by 20-foot, double-lined (visqueen), bermed temporary storage area near OW4. The cuttings were transported to the storage area in the bucket of a Bobcat. The cuttings were covered with two layers of visqueen which were anchored with clean sand. The cuttings will be stored at this location until a disposal method has been approved by OCD. This storage method was used because the local supplier of drums went out of business after the workplan was submitted. The nearest alternate drum supplier was Odessa, Texas and the drum costs would have been twice the anticipated amount. Mr. W. Olsen (OCD) approved of this alternate storage method during a May 28, 1991 telephone conversation with Ms. D. Venable (ENSR). Drums were obtained for fluids, and they have been temporarily stored per the workplan.

**Affected Portions of the Workplan:** Sections 2.5 and 3.2

**Activity Described in the Workplan:** "All non-dedicated, downhole sampling equipment will be decontaminated between each well using the following steps:

- acetone rinse;
- non-phosphate soap scrub;
- hexane rinse;
- deionized water rinse; and
- aluminum foil wrap."

**Changes to the Described Activity:** As per the requirements of the April 26, 1991 letter from Mr. R. Anderson (OCD) to Ms. D. Venable (ENSR), reagent grade alcohol was substituted for acetone and hexane in the decontamination procedure.

**Affected Portion of the Workplan:** Section 2.2

**Activity Described in the Workplan:** "A headspace reading will be made by half filling a 16-oz wide mouth jar with sample, covering the opening with aluminum foil, screwing on the cap, placing the jar in a stable temperature environment, and waiting for one hour."

**Changes to the Described Activity:** As per the requirements of the April 26, 1991 letter from Mr. R.Anderson (OCD) to Ms. D. Venable (ENSR), the samples were shaken for 30 to 60 seconds after capping. In addition, the samples were allowed to equilibrate in a room where the temperature range stayed below 25°C and above 15°C.



**Affected Portion of the Workplan:** Section 2.5

**Activity Described in the Workplan:** "One round of groundwater sampling will be conducted on the observation wells and the water supply wells."

**Changes to the Described Activity:** The water supply well for the Western Company of North America was not sampled because permission could not be obtained from the owners of that facility.

**Affected Portion of the Workplan:** Section 2.2

**Activity Described in the Workplan:** "If field screening indicates that clean conditions are attained before the water table is reached, drilling will cease, the boring will be reamed to a 12-inch diameter, and surface casing will be set."

**Changes to the Described Activity:** Although field screening indicated that "clean" conditions were attained before the water table in OW1 and OW2, surface casing was not used. Instead, the hollow-stem auger was advanced through the contamination, its cutting face was sealed with bentonite, and it was left in place as a temporary casing until the well was set.

**Affected Portion of the Workplan:** Section 3.3

**Activity Described in the Workplan:** "For every 10 soil samples submitted for analyses, one sample will be submitted for duplicate BETX, TPH and TOC analyses."

**Changes to the Described Activity:** For every 20 soil samples submitted for analyses, one sample was submitted for duplicate analyses. This was caused by difficult drilling conditions which resulted in poor sample recovery. Sufficient sample for duplicate analyses were difficult to obtain.



**APPENDIX C**  
**LITHOLOGIC LOGS**

## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF B1

Client : Homco International  
Project Name : Homco 135  
Project Location : Hobbs, New Mexico  
Job Number : 3519-010-335 Boring No : B1  
Logged By : Dorrance  
Approved By : Abbott  
Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
Date Started : 5/21/91 Date Completed : 5/22/91  
Method : HSA/Rock Core Total Depth : 25 feet  
WELL COMPLETION INFORMATION  
Screen Dia : NA Length : NA  
Slot Size : NA Type : NA  
Casing Dia : NA Length : NA

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (ft)	Field OVM (ppm)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.4 ft,msl									
	FILL, gravel and medium to coarse grained sand, non cohesive, calc., sl. moist, no odor, no stains, med. tan to lt. grey.	1	SS	2			0			
2	SILTY FINE GRAINED SAND, sl. cohesive, moderately sorted, some caliche clasts, moist, no odor, no stains, dark brown.	2	SS	0.8		0	0			
	CALICHE, massive, very dense with sealed fissures, no odor, no stains white to lt. grey.									
4	FINE TO MED. GRAINED SAND AND CALC. GRAVEL, skip graded, dry, no odor, no stains, light tan to white and brown.	3	SS	2			0			
	SL. SILTY, FINE GRAINED SAND, moist, no odor, no stains, dark brown.									
6	CALICHE, fissures and cracks 0.25 inches apart which are infilled with white gypsum, dry, no odor, no stains, medium to light tan.									
		4	SS	0						
8										
		5	SS	0						
10	most fractures are healed, moist, no staining, no odor.	6	SS	.5		0	0			
12			RC				0			
14		7	RC	.5		0	0			
	becomes very vuggy with some iron and manganese oxide stains, no odor									
16										
18			RC				0			
	no odor, no stains.									
20										
	CALCITE CEMENTED, VERY FINE TO MEDIUM GRAINED SANDSTONE mod. graded, mod-poor cementing, friable, angular grains, massive, >90% quartz grains, <10% other minerals, dry, no odor, no stains, light tan to buff.	8	RC	.5		0	0			
22										
			RC				0			
	TOTAL DEPTH = 25 FEET									

## SAMPLER TYPE

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

## BORING METHOD

HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF B2

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-335 Boring No : B2  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/23/91 Date Completed : 5/23/91  
 Method : HSA/Rock Core Total Depth : 21 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : NA Length : NA  
 Slot Size : NA Type : NA  
 Casing Dia : NA Length : NA

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (gpm)	Field QW (gpm)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.3 FT, MSL									
	GRAVEL FILL									
2	SILTY, VERY FINE TO FINE GRAINED SAND, sl. cohesive, calcareous, some calc. pebbles, sl. moist, no odor, dark brown.	1	SS	2		0	0			
	.									
	.									
	.									
4	becomes moist, cohesive, white, some vertical fissures infilled with darker material from above.	2	SS	1			0			
	becomes very moist at this contact.									
	.									
6	CALICHE, highly fractured and weathered with black stains along fractures, very dense, few vugs, dry, no odor, some iron oxide stains, otherwise light grey.	3	SS	1.5		0	0			
	becomes friable along horizontal planes, black staining continues, moist.									
8	.									
	.									
10	grades down to a light grey-green, crumbly rock with pin-point black stains and some partings of gypsum mixed with sand grains.	4	RC	4		0	0			
	becomes very hard with abundant black staining along vertical and horizontal fractures, otherwise pink to white with some gypsum crystals and few vugs, moist, no odor.									
12	staining ends, becomes friable, no odor, moist.									
	.									
	.									
14	.									
	becomes dark pink with dark brown mottles and manganese oxide, iron oxide and gypsum.	5	RC	5		0	0			
16	.									
	becomes dense, hard, unfractured with no vugs, tan-pink, no stains, no odor, massive.									
18	.									
	.									
20	CALCITE CEMENTED, VERY FINE TO FINE GRAINED SANDSTONE, mod. graded, friable, dry, no odor, some iron oxide stains, light pink with laminations of dark pink, >90% quartz grains, <10% other minerals.	6	RC	3.3		0	0			
	.									
22	TOTAL DEPTH = 21 feet									

## SAMPLER TYPE

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

## BORING METHOD

HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

SUBSURFACE EXPLORATION

LITHOLOGIC LOG OF B3

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-335 Boring No : B3  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/24/91 Date Completed : 5/24/91  
 Method : HSA/Rock Core Total Depth : 19 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : NA Length : NA  
 Slot Size : NA Type : NA  
 Casing Dia : NA Length : NA

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (ft)	Field OWM (ft)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.3 FT, MSL									
	GRAVEL FILL, dry, no odor, no stains									
2	SILTY, VERY FINE TO FINE GRAINED SAND, calcareous, homogeneous, dry, no odor, no stains, dark brown.	1	SS	1.5		0	0			
	. becomes light tan-brown, slightly moist, slightly cohesive with some caliche pebbles.	2	SS	2			0			
4	. gains some manganese oxide and iron oxide stains, some root traces, slightly moist.	3	SS	2		0	0			
6	CALICHE, very weathered and fractured with iron oxide and manganese oxide stains, no vugs, dense where not fractured, dry, no odor, mottled white-grey, tan and black.									
8	. becomes very dense with all fractures healed with calcite, pink, no odor, no stains.									
10	CALCITE CEMENTED, VERY FINE TO COARSE GRAINED SANDSTONE, friable, rounded grains, layering defined by color variations from light grey to light pink, some caliche pebbles, dry, no odor, no stains.	4	RC	2		0	0			
12										
14										
16		5	RC	3.5		1.0	0			
18	TOTAL DEPTH = 19 FEET									
20										
22										

Dry  
Hole

SAMPLER TYPE

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

BORING METHOD

HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING



## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF B4

Client : Homco International  
Project Name : Homco 135  
Project Location : Hobbs, New Mexico  
Job Number : 3519-010-335 Boring No : B4  
Logged By : Dorrance  
Approved By : Abbott  
Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
Date Started : 5/24/91 Date Completed : 5/24/91  
Method : HSA/Rock Core Total Depth : 20.5 Feet  
WELL COMPLETION INFORMATION  
Screen Dia : NA Length : NA  
Slot Size : NA Type : NA  
Casing Dia : NA Length : NA

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (ft)	Field Q/M (ppm)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.9 FT,MSL									
2	SILTY, VERY FINE GRAINED TO FINE GRAINED SAND, non cohesive, calcareous, dry, no odor, no stains, dark brown.	1	SS	2			0			
	becomes light brown with depth.	2	SS	2		0	0			
4	becomes slightly moist, slightly cohesive, mod. graded, some caliche pebbles, no odor, no stains.	3	SS	2			0			
6	CALICHE, weathered, fractured with manganese oxide and iron oxide stains along fractures, no vugs, dry, no odor, medium brown.									
8										
10	CALCITE CEMENTED SILTY FINE GRAINED SAND, friable, massive, dry, no odor, no stains, light grey.									
12	CALICHE, vuggy, no vertical fractures, breaks easily along horizontal planes, contains some gypsum crystals and manganese oxide and iron oxide mottles, dry, no odor, no stains, white to pink.	4	RC	5			0			
14						0				
16										
18	CALCITE CEMENTED SILTY, FINE GRAINED SANDSTONE, friable, massive, mod. graded, dry, no odor, no stains, med. tan mottled white with some layering defined by slight color variations.	5	RC	3		0	0			
20	TOTAL DEPTH = 20.5 FT								Dry Hole	
22										

## SAMPLER TYPE

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

## BORING METHOD

HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF B5

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-335 Boring No : B5  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/25/91 Date Completed : 5/25/91  
 Method : HSA/Rock Core Total Depth : 22 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : NA Length : NA  
 Slot Size : NA Type : NA  
 Casing Dia : NA Length : NA

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (ppm)	Field OVM (ppm)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.7 FT, MSL									
	GRAVEL AND SAND FILL, dry, no odor, no stains, white.	1	SS	2			0			
2	SAND FILL, well sorted, non calcareous, sub angular, dry, no odor, no staining, dark tan.									
	SILTY VERY FINE GRAINED SAND, includes some gravel, well graded (excluding gravel), low plasticity, sl. moist, no odor, no stains, dark brown.	2	SS	2		0	0			
4										
	VERY FINE GRAINED TO MEDIUM GRAINED CALCITE SAND, sl. cohesive, soft, mod. graded, some caliche pebbles, moist, no odor, no stains.	3	SS	2			0			
6										
	CALICHE, mod. weathered and fractured with manganese oxide and iron oxide stains along fractures, no vugs, dense where not fractured, dry, no odor, no stains, light tan to white.	4	SS	1			0			
8										
	becomes dense, massive, hard from 9' to 9.5'									
10	becomes vuggy with numerous healed horizontal and vertical fractures infilled with gypsum, friable on horizontal planes, dry, no odor, no stains, pink to tan.									
12		5	RC	7		0	0			
	CALCITE CEMENTED VERY FINE GRAINED TO MEDIUM GRAINED SANDSTONE, friable, some iron oxide stains, some vertical fissures, some caliche cobbles, sl. moist, no odor, no stains, light grey to tan along horizontal planes.									
14										
16										
18										
20		6	RC	3.5		0	0			
	TOTAL DEPTH = 22 FEET									
22									Dry Hole	

SAMPLER TYPE  
 SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

BORING METHOD  
 HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF B6

Client : Homco International  
Project Name : Homco 135  
Project Location : Hobbs, New Mexico  
Job Number : 3519-010-335 Boring No : B6  
Logged By : Dorrance  
Approved By : Abbott  
Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
Date Started : 5/25/91 Date Completed : 5/25/91  
Method : HSA/Rock Core Total Depth : 24 feet  
WELL COMPLETION INFORMATION  
Screen Dia : NA Length : NA  
Slot Size : NA Type : NA  
Casing Dia : NA Length : NA

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (in)	Field QM (in)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.4 FT, MSL									
	GRAVEL FILL, loose, dry, no odor, no stains, white to tan.									
2	SILTY, FINE GRAINED TO MEDIUM GRAINED SAND, cohesive, non plastic, homogeneous, sl. moist, no odor, no stains, dark brown.	1	SS	2			0			
	becomes dry, light brown to white, with some caliche pebbles, mod. graded, no odor, no stains.	2	SS	2		0	0			
4	becomes moist with vertical fissures infilled with brown, no odor, no stains.	3	SS	1.5		0	0			
6	CALICHE, heavily weathered and fractured with infilling of manganese oxide and iron oxide, dry, no odor, no stains, light grey to tan.									
8	becomes vuggy, friable along horizontal planes, fractures healed with euheedral gypsum, dry, no odor, no stains, mottled pink and white.									
10		4	RC	4			0			
12										
14										
16										
18		5	RC	3		0	0			
20										
22	CALCITE CEMENTED, FINE TO MEDIUM GRAINED SANDSTONE, friable, well graded, sub-angular grains, dry, no odor, no stains, medium red.	6	RC	.5		0	0			
	TOTAL DEPTH = 24 FEET								Dry Hole	

SAMPLER TYPE  
SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

BORING METHOD  
HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF B7

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-335 Boring No : B7  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/30/91 Date Completed : 5/30/91  
 Method : HSA/Rock Core Total Depth : 19 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : NA Length : NA  
 Slot Size : NA Type : NA  
 Casing Dia : NA Length : NA

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (ft)	Field QW (ft)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.5 ft, msl									
	GRAVEL FILL, dry, no odor, no stains, white.	1	SS	2			0			
2	VERY FINE GRAINED TO FINE GRAINED SAND FILL, loose, with some black plant material mixed in, dry, no odor, no stains, tan-brown.	2	SS	2		0	0			
4		3	SS	2			0			
6		4	SS	2		0	0			
8	WEATHERED CALICHE RESIDUE, very fine grained to fine grained, moist, no odor, no stains, white.	5	SS	.5		0	0			
10	CALICHE, wuggy, with horizontal and vertical fractured healed with gypsum, friable, dry, no odor, no stains, light grey to white.									
12	becomes light red to pink.	6	RC	4		0	0			
14	ALTERNATING LAYERS OF CALICHE AND CALCITE CEMENTED VERY FINE GRAINED TO FINE GRAINED SANDSTONE, caliche is wuggy, friable with gypsum crystals, light red to pink, in both rock types there are no odors, moist, no stains except some manganese oxide and iron oxide.									
16		7	RC	4			0			
18	TOTAL DEPTH = 19 FEET									
20										
22										

 DRY  
HOLE

## SAMPLER TYPE

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

## BORING METHOD

HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF B8

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-335 Boring No : B8  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/31/91 Date Completed : 5/31/91  
 Method : HSA/Rock Core Total Depth : 19 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : NA Length : NA  
 Slot Size : NA Type : NA  
 Casing Dia : NA Length : NA

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (gpm)	Field QM (gpm)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.2 ft, msl									
	GRAVEL FILL, dry, no odor, no stains, white.									
2	VERY FINE GRAINED TO FINE GRAINED SAND FILL, sub angular, moist, no odor, no stains, tan-brown.	1	SS	2			0			
		2	SS	2			0			
4										
	WEATHERED CALICHE RESIDUE, fine grained to pebble size, angular, moist, no odor, no stains, white to light grey.	3	SS	2		0	0			
6	CALICHE, vuggy, no vertical fractures, some gypsum infilling of horizontal planes, hard, no odor, no stains, white to light grey.									
8										
10										
12	ALTERNATING LAYERS OF CALICHE AND VERY FINE GRAINED TO FINE GRAINED, CALCITE CEMENTED SANDSTONE, both are friable, no odor, no stains, med. red to tan.	4	RC	4		0	0			
14	CALICHE, vuggy, fractured, weathered, abundant gypsum infilling, friable, dry, no odor, no stains, white to grey.									
16		5	RC	4		0	0			
18	TOTAL DEPTH = 19 feet									
20										
22										

Dry Hole

## SAMPLER TYPE

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

## BORING METHOD

HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING



## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW1

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-235 Boring No : OW1  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/26/91 Date Completed : 5/27/91  
 Method : HSA/Rock Core Total Depth : 71 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : 4 inch ID Length : 15 feet  
 Slot Size : 0.02 inch Type : Machine Cut, Sched. 40 PVC  
 Casing Dia : 4 inch ID Length : 47 feet

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (gpm)	Field QYM (gpm)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.3 ft, msl									
2	GRAVEL FILL, dry, no odor, no stains, white.	1	SS	2			0			
4	FINE GRAINED SAND FILL, well sorted, homogeneous, sub-angular to angular, non-cohesive, moist, no odor, no stains, tan-brown.	2	SS	2			0			
6		3	SS	2		0	0			
8		4	SS	2			0			
10		5	SS	2		0	0			
12	gains some diffuse, black stains and some black wood material. Wood appears to be the cause of the stains. No odor.	6	SS	2			0			
14	becomes wet at 14 feet with a septic odor, no stains.	7	SS	1.5		149.1	104.7			
16	DEGRADED CALICHE, crumbles easily, vuggy, moist, septic odor, impregnated with black and grey stains.	8	RC	1		126	4			
18										
20	ALTERNATING LAYERS OF DEGRADED CALICHE AND FINE GRAINED TO MEDIUM GRAINED CALCAREOUS SAND, layers are ~0.5 feet thick, moist, strong hydrocarbon odor, heavily stained black by an oily material.	9	RC	5		111.6	38			
22										

## SAMPLER TYPE

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

## BORING METHOD

HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW1

Client : Homco International  
Project Name : Homco 135  
Project Location : Hobbs, New Mexico  
Job Number : 3519-010-235 Boring No : OW1  
Logged By : Dorrance  
Approved By : Abbott  
Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
Date Started : 5/26/91 Date Completed : 5/27/91  
Method : HSA/Rock Core Total Depth : 71 feet  
WELL COMPLETION INFORMATION  
Screen Dia : 4 inch ID Length : 15 feet  
Slot Size : 0.02 inch Type : Machine Cut, Sched. 40 PVC  
Casing Dia : 4 inch ID Length : 47 feet

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (ft)	Field OVM (ft)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.3 ft, msl									
26	ALTERNATING LAYERS OF DEGRADED CALICHE AND FINE GRAINED TO MEDIUM GRAINED CALCAREOUS SAND	9	RC	5		111.6	38			
		10	RC	1.5		39.2	0			
28	CALICHE, vuggy, gypsum dissolved out of vertical and horizontal fractures, no odor, completely stained black.					30.6				
30	.becomes mottled with some pink..									
32	black staining ends at 30 feet, becomes pink, dense, non-vuggy, few fractures, no odor.	11	RC	4			0			
38	CALCITE CEMENTED VERY FINE GRAINED TO MEDIUM GRAINED SANDSTONE, well graded, massive except for some vertical features containing white calcite, friable, moist, no odor, no staining, medium red-tan.									
42		12	RC	5		8.1	0			

SAMPLER TYPE  
SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

BORING METHOD  
HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW1

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-235 Boring No : OW1  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/26/91 Date Completed : 5/27/91  
 Method : HSA/Rock Core Total Depth : 71 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : 4 inch ID Length : 15 feet  
 Slot Size : 0.02 inch Type : Machine Cut, Sched 40  
 Casing Dia : 4 inch ID Length : 47 feet

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (DDM)	Field OWM (DDM)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.3 ft. msl									
50	VERY FINE GRAINED TO MEDIUM GRAINED SAND, little calcareous material, few gypsum crystals, well graded, homogeneous, massive, >90% quartz, moist, no odor, no stains, med red-tan.									
	becomes wet at 50 feet.									
52		13	RC	6		3.0	0			7/17/91
54										
56										
58	from 58 to 63 feet gained 1-2 inch thick layers of caliche, wet, no odors, no stains.									
60						24.4				
62		14	RC	5			0			
64										
66										
68										
70	TOTAL DEPTH = 71 FEET	15	SS	1			0			

SAMPLER TYPE  
 SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

BORING METHOD  
 HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING





## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW2

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-235 Boring No : OW2  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/22/91 Date Completed : 5/23/91  
 Method : HSA/Rock Core Total Depth : 71 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : 4 inch ID Length : 15 feet  
 Slot Size : 0.02 inch Type : Machine Slot, Sched. 40 PVC  
 Casing Dia : 4 inch ID Length : 48 feet

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (ft)	Field QM (ft)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.8 ft,msl									
2	SAND AND GRAVEL FILL, loose, calcareous, dry, no odor, no stains.	1	SS	2		0	0			
	FINE GRAINED TO MEDIUM GRAINED SAND FILL, sub-rounded, well sorted, homogeneous, non-calcareous, non-cohesive, moist, no odor, no stains, dark red-tan.	2	SS	2			0			
4		3	SS	2		0	0			
6		4	SS	2			0			
8		5	SS	2		187.5				
10	CALICHE, friable, decomposed, sharp contact with overlying fill, moist, odor, heavily stained black and grey.									
12	becomes hard, with significant black stains confined to vertical and horizontal fracture lines, vuggy, most fractures healed with calcite, tan-red-brown, no odor.	6	RC	2		6.0	0			
14	Staining ends at 12 feet, caliche becomes pink.									
16										
18	CALCITE CEMENTED, VERY FINE GRAINED TO MEDIUM GRAINED SANDSTONE, well graded, friable, sub-angular, includes some pebbles of a dark brown silicate, rest is >95% quartz sand, no odor, no stains, light-tan to pink, with some layering defined by color and calcite cementation variations.	7	RC	6		0.0	0			
20										
22										
	gains a dark pink color, becomes less cemented, sl. moist, no odor, no stains.	8	RC	3.5			0			

## SAMPLER TYPE

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

## BORING METHOD

HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING



## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW2

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-235 Boring No : OW2  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/22/91 Date Completed : 5/23/91  
 Method : HSA/Rock Core Total Depth : 71 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : 4 inch ID Length : 15 feet  
 Slot Size : 0.02 inch Type : Machine Slot, Sched. 40 PVC  
 Casing Dia : 4 inch ID Length : 48 feet

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (ft)	Field QM (ppm)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.8 ft, msl									
26	CALCITE CEMENTED, VERY FINE GRAINED TO MEDIUM GRAINED SANDSTONE, friable, with fractures infilled with calcareous material, otherwise homogeneous, well graded, sub-angular, no odor, no stains, med. red-brown.	8	RC	3.5		4.7	0			
28										
30	FINE TO MEDIUM GRAINED SAND, mod. graded, contains some rounded cobbles and pebbles of assorted rock types, sparse layers of calcareous material, wet from 29-30 feet, otherwise dry, sub-angular to sub-rounded, some grains have a coating of calcite, no odor, no stains, tan-buff.					5.1				
32										
34		9	RC	2.5			0			
36										
38										
40		10	SS	1.5		24.6	0			
42										
44		11	SS	.5		6.0	0			
46										

## SAMPLER TYPE

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

## BORING METHOD

HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW2

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-235 Boring No : OW2  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/22/91 Date Completed : 5/23/91  
 Method : HSA/Rock Core Total Depth : 71 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : 4 inch ID Length : 15 feet  
 Slot Size : 0.02 inch Type : Machine Slot, Sched. 40 PVC  
 Casing Dia : 4 inch ID Length : 48 feet

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (in)	Field QM (in)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.8 ft, msl									
50	FINE TO MEDIUM GRAINED SAND, well sorted, sub-rounded, some calcareous rimes on grains, non-cohesive, becomes very moist at 50.5 feet, no odor, no stains, med. tan-brown.	12	SS	1.5		0	0			
52										
54	becomes saturated at 55 feet.	13	SS	1.5		0	0			
56										
58	loses all calcareous material, has one layer of gypsum.	14	SS	1		0	0			
60		15	SS	1.5			0			
62										
64										
66										
68										
70	TOTAL DEPTH = 71 FEET	16	SS	.5		0	0			

SAMPLER TYPE  
 SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

BORING METHOD  
 HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW3

Client : Homco International  
Project Name : Homco 135  
Project Location : Hobbs, New Mexico  
Job Number : 3519-010-235 Boring No : OW3  
Logged By : Dorrance  
Approved By : Abbott  
Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
Date Started : 5/29/91 Date Completed : 5/30/91  
Method : HSA/Rock Core Total Depth : 71 feet  
WELL COMPLETION INFORMATION  
Screen Dia : 4 inch ID Length : 15 feet  
Slot Size : 0.02 inch Type : Machine Slot, Sched. 40 PVC  
Casing Dia : 4 inch ID Length : 51.3 feet

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (ft)	Field OVM (ft)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.1 ft, msl									
2	FINE TO MEDIUM GRAINED SAND FILL, loose, dry, no odor, no stains, tan.	1	SS	2		0	0			
	SILTY, VERY FINE GRAINED TO FINE GRAINED SAND, cohesive, homogeneous, moist, sl. odor of parafin, calcareous, parafin residue stains, dark brown.	2	SS	1.5		0	0			
4		3	SS	2			0			
6	WEATHERED CALICHE, with manganese oxide and iron oxide stains along vertical fractures, very friable, moist, slight odor, no stains, tan to grey.	4	SS	2		0.2	3			
8										
10	CALICHE, vuggy, with horizontal and vertical fractures containing calcite and gypsum crystals along with some manganese oxide and iron oxide, friable, moist, no odor, no stains, white and grey.	5	RC	3		0	0			
12										
14										
16	becomes hard, fractures are healed, very porous, some gypsum crystals.	6	RC	3			0			
18										
20	CALCITE CEMENTED, VERY FINE GRAINED TO FINE GRAINED SANDSTONE massive, degree of cementation varies from friable to mod. cemented, sub-angular grains, dry, no odor, no stains, pink.	7	RC	4		0	0			
22										

SAMPLER TYPE  
SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

BORING METHOD  
HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW3

DRILLING AND SAMPLING INFORMATION	
Date Started : 5/29/91	Date Completed : 5/30/91
Method : HSA/Rock Core	Total Depth : 71 feet
WELL COMPLETION INFORMATION	
Screen Dia : 4 inch ID	Length : 15 feet
Slot Size : 0.02 inches	Type : Machine Slot, Sched. 40 PVC
Casing Dia : 4 inch ID	Length : 51.3 feet

[illegible]

BORING METHOD	
HSA - HOLLOW STEM AUGER	DC - DRIVING CASING
CFA - CONTINUOUS FLIGHT AUGERS	MD - MUD DRILLING

## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW3

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-235 Boring No : OW3  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/29/91 Date Completed : 5/30/91  
 Method : HSA/Rock Core Total Depth : 71 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : 4 inch ID Length : 15 feet  
 Slot Size : 0.02 Inches Type : Machine Slot, Sched. 40 PVC  
 Casing Dia : 4 inch ID Length : 51.3 feet

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (ppm)	Field QM (ppm)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3648.1 ft. msl									
50	CALCITE CEMENTED, VERY FINE GRAINED TO FINE GRAINED SANDSTONE, mod. graded, mod. cemented, homogeneous except for some gypsum partings, varies from dense to friable, sub-angular grains are >90% quartz, moist, no odor, no stains, med. tan-pink.									
52	becomes wet at 53.5 feet.	10	RC	6		0	0			7/17/91
54										
56										
58	begins to alternate with layers of little or no cementation.									
60										
62										
64		11	RC	4		0	0			
66	VERY FINE GRAINED TO FINE GRAINED SAND, well sorted, saturated, no odor, no stains, tan.									
68										
70	TOTAL DEPTH = 71 feet	12	SS	1			0			

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

BORING METHOD  
 HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING



## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW4

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-235 Boring No : OW4  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/27/91 Date Completed : 5/29/91  
 Method : HSA/Rock Core Total Depth : 70 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : 4 inch ID Length : 15 feet  
 Slot Size : 0.02 inch Type : Machine Slot, Sched. 40 PVC  
 Casing Dia : 4 inch ID Length : 47 feet

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (in)	Field OWM (in)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3646.9 ft, msl									
2	FINE TO COARSE GRAINED SAND FILL, calcareous, dry, no odor, no stains, white.	1	SS	2			0			
4	VERY FINE GRAINED TO FINE GRAINED SAND, well graded, non-calcareous, homogeneous, moist, no odor, no stains, red-brown.	2	SS	2		0	0			
6		3	SS	2			0			
8										
10	CALICHE, weathered, friable, vuggy, vertical and horizontal fractures with some gypsum and manganese oxide infilling, no odor, no stains, mottled white and pink.	4	SS	.5			0			
12		5	RC	.5			0			
14										
16		6	RC	1.5		0	0			
18										
20	INTERLAYERED CALICHE AND FINE TO MEDIUM GRAINED CALCAREOUS SAND, includes some gypsum, sand is sub-angular, non-cohesive, mod. graded, moist, no odor, no stains, layers are ~0.5 feet thick.	7	RC	6		0	0			
22										

## SAMPLER TYPE

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

## BORING METHOD

HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING

## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW4

Client : Homco International  
 Project Name : Homco 135  
 Project Location : Hobbs, New Mexico  
 Job Number : 3519-010-235 Boring No : OW4  
 Logged By : Dorrance  
 Approved By : Abbott  
 Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
 Date Started : 5/27/91 Date Completed : 5/29/91  
 Method : HSA/Rock Core Total Depth : 70 feet  
 WELL COMPLETION INFORMATION  
 Screen Dia : 4 inch ID Length : 15 feet  
 Slot Size : 0.02 inch Type : Machine Slot, Sched. 40 PVC  
 Casing Dia : 4 inch ID Length : 47 feet

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (ft)	Field OVM (ft)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3646.9 ft, msl									
26	ALTERNATING LAYERS OF VERY FINE GRAINED TO MEDIUM GRAINED SAND AND CALCITE AND GYPSUM CEMENTED VERY FINE GRAINED TO FINE GRAINED SANDSTONE, layers are ~0.5 feet thick, sand is non-calcareous, quartz based, moist, well graded, medium tan. Sandstone is very hard with low porosity, no vertical fractures, same horizontal laminations defined by color variations, well cemented non odor, no stains.	8	RC	4		0	0			
28	CALCITE CEMENTED, VERY FINE GRAINED TO FINE GRAINED SANDSTONE, sl. friable, breaks most easily along horizontal planes, well graded, sub-angular grains, with some calcite and gypsum crystal inclusions, moist, no odor, no stains, medium tan-pink, >90% quartz grains.	9	RC	8			0			
34	VERY FINE GRAINED TO FINE GRAINED SAND, sub-angular, well graded, >90% quartz grains, non-cohesive, moist, no odor, no stains, tan-pink.									
36	ALTERNATING LAYERS OF VERY FINE GRAINED TO FINE GRAINED SAND AND CALCITE CEMENTED, VERY FINE GRAINED TO FINE GRAINED SANDSTONE, layer thicknesses not known due to washout of sand samples, all sand is >90% quartz grains, well graded, sandstone is mod. cemented, massive, moist to wet, no odor, no stains, med. tan-pink.									
40		10	RC	3			0			
42										
44										
46										

SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
 ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
 CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING





## ENSR CONSULTING &amp; ENGINEERING

## SUBSURFACE EXPLORATION

## LITHOLOGIC LOG OF OW4

Client : Homco International  
Project Name : Homco 135  
Project Location : Hobbs, New Mexico  
Job Number : 3519-010-235 Boring No : OW4  
Logged By : Dorrance  
Approved By : Abbott  
Drilled By : Layne Environmental

DRILLING AND SAMPLING INFORMATION  
Date Started : 5/27/91 Date Completed : 5/29/91  
Method : HSA/Rock Core Total Depth : 70 feet  
WELL COMPLETION INFORMATION  
Screen Dia : 4 inch ID Length : 15 feet  
Slot Size : 0.02 inch Type : Machine Slot, Sched. 40 PVC  
Casing Dia : 4 inch ID Length : 47 feet

DEPTH IN FEET	DESCRIPTION	SAMPLE NO.	SAMPLE TYPE	RECOVERY (FEET)	BLOW COUNT	Headspace (gpm)	Field QM (gpm)	GRAPHIC LOG	WELL COMPLETION	WATER LEVEL
	SURFACE ELEVATION : 3646.9 ft, msl									
50	VERY FINE GRAINED TO FINE GRAINED SAND, well graded, wet from 48-52 feet, sl. calcareous, >90% quartz grains, sub-rounded, homogeneous, sparse calcareous pebbles, no odor, no stains, med. tan-brown.					0				
52	becomes saturated.	11	RC				0			7/17/91
54										
56										
58	gains some seams of gypsum and calcite.									
60						0.2				
62		12	RC	4	5		0			
64										
66										
68										
70	TOTAL DEPTH = 70 FEET	13	SS	1			0			

SAMPLER TYPE  
SS - DRIVEN SPLIT SPOON RC - ROCK CORE  
ST - PRESSED SHELBY TUBE CT - CONTINUOUS TUBE

BORING METHOD  
HSA - HOLLOW STEM AUGER DC - DRIVING CASING  
CFA - CONTINUOUS FLIGHT AUGERS MD - MUD DRILLING



**APPENDIX D**

**SOIL BORING, SAMPLING, WELL INSTALLATION,  
GROUTING AND DECONTAMINATION METHODS**

## Drilling and Sampling Methods

Borings were drilled using 6.25-inch ID, 9-inch OD hollow-stem augers. Soils and rock were sampled using a combination of 2.5-inch ID, 2-foot-long split spoons (ASTM Method D-1586) and a 2.5-inch ID, 11.54-foot-long rock coring tube. Representative portions of samples were placed in labelled, plastic bags, and stored on site for potential future reference. Samples were lithologically logged making observations of the following details:

- grain size range, sorting and gradation;
- grain angularity;
- structures;
- amount of cementation;
- cohesiveness and plasticity;
- reaction to 10% hydrochloric acid;
- lithology of grains;
- qualitative moisture content
- odor;
- stains and color; and
- the presence of natural staining such as iron oxides.

Samples were scanned in the field with an OVM brand photoionization detector (calibrated daily with isobutylene gas) and splits of the samples were retained for headspace analyses (see Appendix E). An indicator of releases from the investigated facilities was black hydrocarbon staining of soils and caliche. However, manganese oxides also caused natural black staining.

The two types of staining were distinguished by three methods. The first method involved viewing the samples under a hand lens. In many cases the manganese oxide staining was covered by a rime of calcite or gypsum. The second method was to break a fresh surface of the stained material and to spray the surface with carburetor cleaner. Carburetor cleaner is a solvent for most oily materials. After spraying, the surface was wiped with a paper towel to determine whether the black material was soluble. The third method was to place the black stained material in a jar filled with a solution of gasoline-finding paste. Gasoline-finding paste turns bright red in the presence of most hydrocarbons. If the black material was not soluble in the carburetor cleaner, if the gasoline finding paste solution did not turn red, and if the headspace analyses were negative, the material was determined to be a natural oxide, most probably manganese oxide.

The borings were hollow-stem augered and split-spoon sampled to at least 1 foot into caliche. The rock coring tube was used to sample caliche, sandstone and sand from the remainder of the boring. The rock core tube was lubricated and cuttings were carried to the surface by a thick mixture of municipal drinking water and bentonite powder. "Mud drilling" was chosen over "air drilling" because air could have stripped volatile organic compounds from soils at the cutting face. The mud mixture was made thick enough so that infiltration into the samples was usually less than 1/10 inch.

Samples collected from the split spoons and rock core tubes for chemical analyses were carved from central portions of the samples which were not in contact with the samplers. Samples for bulk dry density analyses were collected in brass liners within the split spoons. All samples were collected from samplers using new PVC gloves, a decontaminated carving knife, and new sample jars.

Borings which were not converted to observation wells were tremie grouted to the surface with a mixture of neat cement, municipal drinking water and approximately 5% bentonite powder. The borings were "topped off" with additional grout the next day.

At observation well borings, the base of the hollow stem auger was set below the last identified contamination (by field screening). This allowed the auger to act as a temporary casing to isolate shallow contaminants from deeper materials. At well borings, after soil sampling had been completed, the 9-inch-OD auger was advanced to the total depth. This "reaming" removed all drilling fluids from the hole.

Cuttings from the drilling process were placed in a bermed, 10-foot by 20-foot, double-lined (visqueen), temporary storage area near OW4. The cuttings were transported to the storage area in the bucket of a Bobcat. The cuttings were covered with two layers of visqueen which was anchored with clean sand. The cuttings will be stored at this location until a disposal method has been approved by the OCD.

#### Well Installation Methods

Once the hollow-stem auger had "reamed" the boring, the well sump, screen and casing were threaded together and placed downhole inside the auger. The materials, which had been steam cleaned, were handled with new PVC gloves and were not allowed to touch the ground.

The well components, from deepest to shallowest, consisted of the following:

Sump: PVC slip cap pegged to a 2.5-foot length of 4-inch-ID, Schedule 40, flush, box threaded PVC with no "O"ring.

Screen: One 10-foot and one 5-foot length of 4-inch-ID, Schedule 40, flush, box threaded, 0.02-inch opening, machine-slotted, PVC with no "O" rings.

Casing: Five 10-foot lengths of 4-inch-ID, Schedule 40, flush, box threaded PVC with no "O" rings.

Locking Cap: Manual, twist-down, packer-type plug with a key lock and labelled "no fill."

Protective Casing: Bolt-down, manhole-type lid set in concrete, and labelled "monitoring well."

These details are presented on the figures of Appendices C and G.

Once the casing was in place, the sand pack (CSSI brand, 10-20 sand) was poured from the surface between the auger and the casing. The top of the sand pack was continuously tape measured during installation. The auger was rotated slowly out of the hole 2 to 3 feet ahead of the rising sand column. The sand pack was installed to at least 2 feet above the top of the well screen.

After the sand pack had been installed, the partially completed well was surge blocked using a dual-stage, rubber gasket surge block which was raised and lowered along the length of the screened interval 40 to 50 times using the drill rig winch. After surge blocking, the top of the sand pack was tape measured. If the top of sand had fallen, additional sand was added to the hole.

After surge blocking, the base of the auger was raised above the level anticipated for the top of bentonite. Bentonite chips (American Colloid Company brand, medium size "Pure Gold") were poured from the surface between the casing and the auger. The top of bentonite was continuously tape measured during installation. Several gallons of municipal drinking water were poured down the boring for every 6 inches of chips added. At least 2 feet of chips were added to the hole. After installing the bentonite, it was allowed to hydrate for at least 4 hours, usually overnight.

After the bentonite had hydrated and the depth to the top of bentonite had been remeasured, the remainder of the boring was tremie grouted to the surface with a mixture of neat cement, municipal drinking water and bentonite powder. The grout was mixed in the proportions of 94 pounds of cement to 6 gallons of water to 2 to 4 pounds of bentonite. The augers were rotated out of the boring ahead of the rising grout column. After the grout had set (at least over-night), the borings were "topped off" to within 1 foot of the surface with additional grout.

After the boring had been grouted, the well casing was cut so that the top of casing was 0.2 to 0.3 feet below the surface and a notch for the elevation survey was placed on the north side of the casing. The remainder of the boring annulus was filled with concrete, and the bolt-down manhole was set in the concrete. The top of the manhole was placed 0.2 to 0.3 feet above the surface, and the surrounding concrete was mounded so that water will drain away from the well head.

#### Decontamination Methods

Prior to mobilization to each boring, the drill rig and all associated equipment were steam cleaned using municipal drinking water. Between sampling events, the split spoons, the rock core tube and the carving knife were decontaminated using the following steps:

- 1) Reagent grade alcohol rinse (Baxter brand ethyl-methyl-isopropyl alcohol).
- 2) Scrub with non-phosphate soap and deionized water (Alconox brand soap).
- 3) Reagent grade alcohol rinse.
- 4) Deionized water rinse.
- 5) Air dry.

Immediately prior to well installation, all well materials were steam cleaned with municipal drinking water. Thereafter, the materials were handled with new PVC gloves.





**APPENDIX E**  
**METHOD OF HEADSPACE ANALYSES**

Headspace analyses were performed on soil samples using the following procedures:

- 1) Calibrate the OVM brand, photoionization detector on a daily basis with isobutylene gas.
- 2) Scan all jars and ambient air conditions with the OVM to ensure that the background reading is 0 units.
- 3) Half fill a 16-oz. wide mouth jar with sample. Immediately cover the jar mouth with aluminum foil and screw on the lid.
- 4) Vigorously shake the jar for 30 to 60 seconds in a sideways motion so that the foil cover is not damaged.
- 5) Place the jar in a room where the air temperature does not rise above 25°C or fall below 15°C.
- 6) Allow the sample to equilibrate for at least 1 hour (usually overnight).
- 7) Record the ambient air temperature and OVM reading.
- 8) Remove the jar lid, holding the foil over the jar mouth. Pierce the foil with the OVM tip and record the maximum reading.

The results of these measurements are presented on the lithologic logs of Appendix C.



**APPENDIX F**  
**WELL CONSTRUCTION DETAILS**

WELL NUMBER: OW1

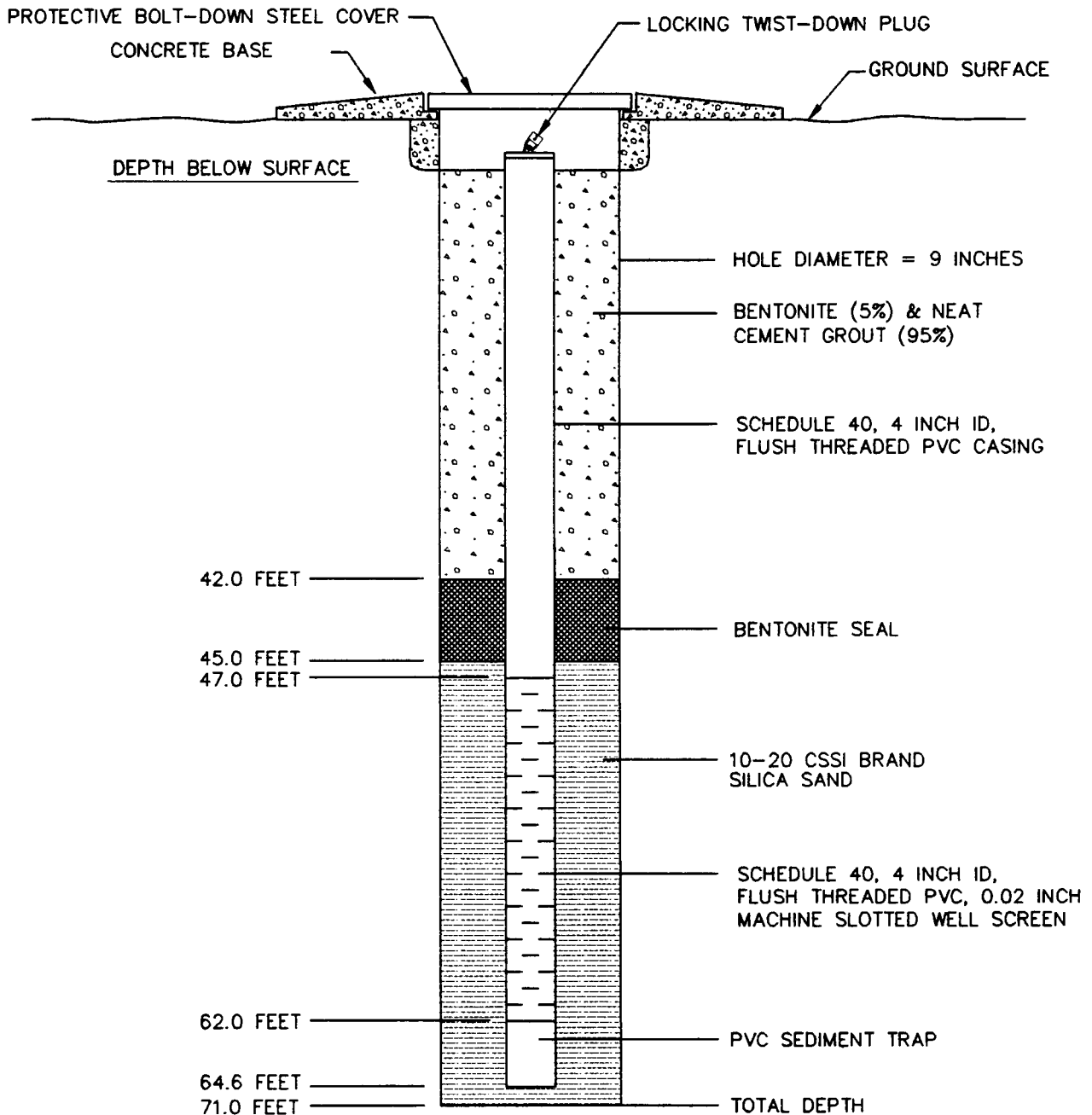
GROUND SURFACE ELEVATION: 3648.3 FT.

DATE INSTALLED: 5/27/91

TOP WELL CASING ELEVATION: 3648.00 FT.  
(MEASUREMENT POINT)

TYPE COMPLETION: BELOW GRADE

LOCATION: PLANT N 1221.08 PLANT E 1475.36



NOT TO SCALE

ELEVATIONS FROM U.S.G.S. 1969 DATUM

**ENSR™**

ENSR CONSULTING AND ENGINEERING

OBSERVATION WELL CONSTRUCTION DETAILS  
HOMCO INTERNATIONAL  
SITE 135  
HOBBS, NEW MEXICO

DRAWN BY: SJ/LMG

DATE: 8-2-91

PROJECT  
NUMBER:

CHK'D BY: [Signature]

REVISED:

3519-010-435

3519131

WELL NUMBER: OW2

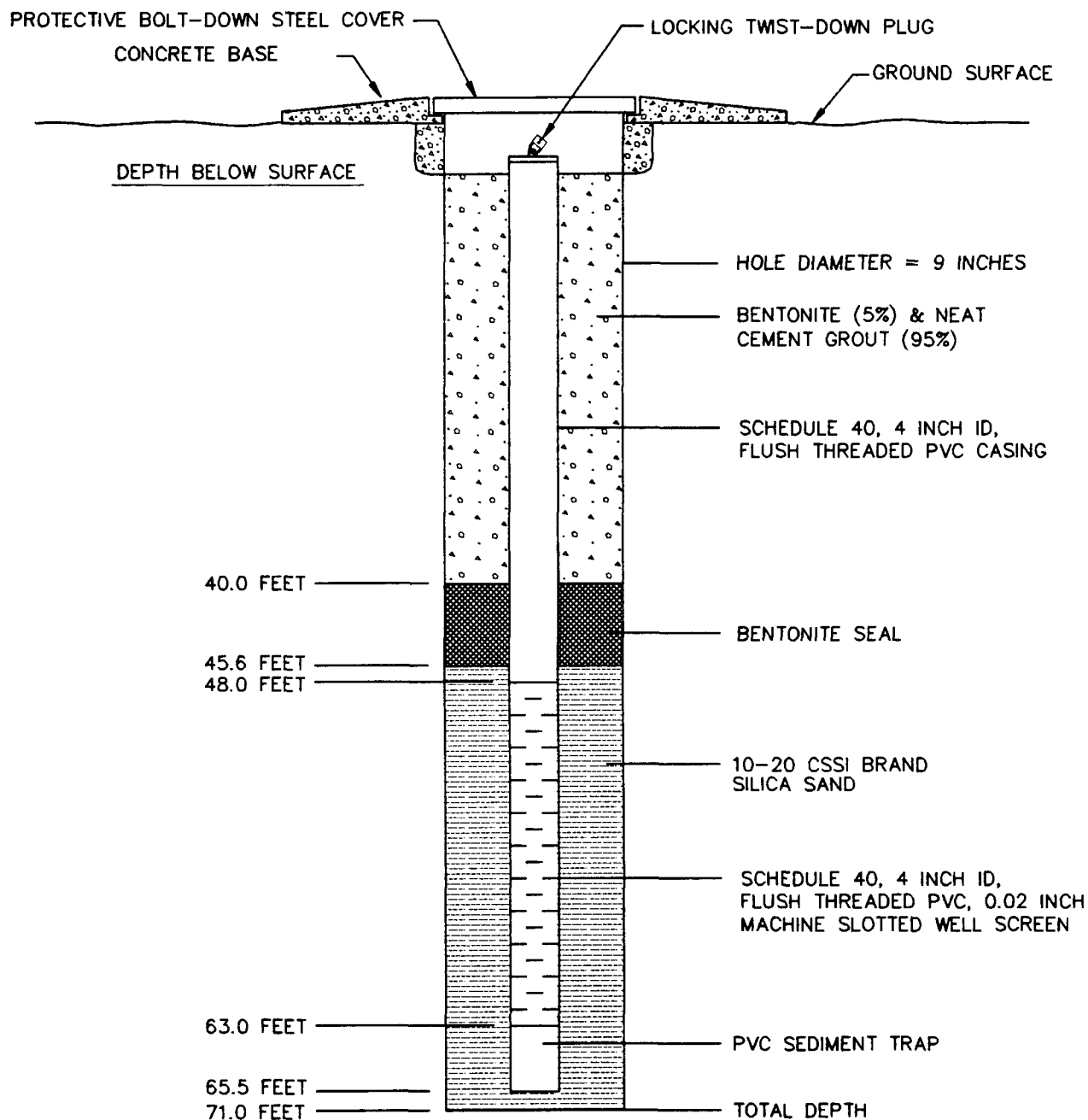
GROUND SURFACE ELEVATION: 3648.8 FT.

DATE INSTALLED: 5/23/91

TOP WELL CASING ELEVATION: 3648.00 FT.  
(MEASUREMENT POINT)

TYPE COMPLETION: BELOW GRADE

LOCATION: PLANT N 1186.22 PLANT E 1378.49



NOT TO SCALE

ELEVATIONS FROM U.S.G.S. 1969 DATUM

**ENSR**<sup>TM</sup>

ENSR CONSULTING AND ENGINEERING

OBSERVATION WELL CONSTRUCTION DETAILS  
HOMCO INTERNATIONAL  
SITE 135  
HOBBS, NEW MEXICO

DRAWN BY: SJ/LMG

DATE: 8-2-91

PROJECT  
NUMBER:

CHK'D BY: [Signature]

REVISED:

3519-010-435

3519132

WELL NUMBER: OW3

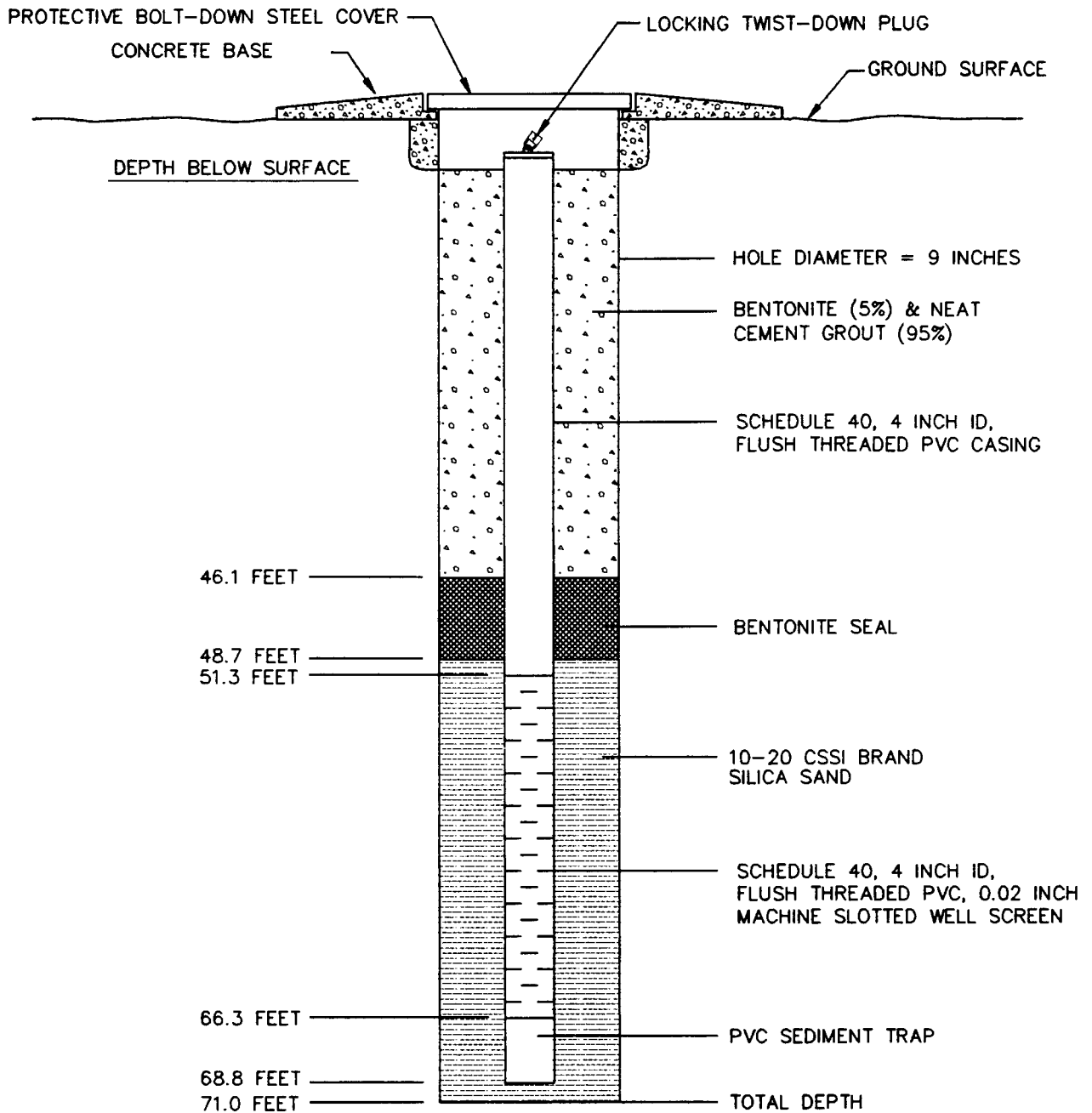
GROUND SURFACE ELEVATION: 3648.1 FT.

DATE INSTALLED: 5/30/91

TOP WELL CASING ELEVATION: 3647.95 FT.  
(MEASUREMENT POINT)

TYPE COMPLETION: BELOW GRADE

LOCATION: PLANT N 1027.07 PLANT E 1286.80



NOT TO SCALE

ELEVATIONS FROM U.S.G.S. 1969 DATUM

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ENSR CONSULTING AND ENGINEERING

OBSERVATION WELL CONSTRUCTION DETAILS  
HOMCO INTERNATIONAL  
SITE 135  
HOBBS, NEW MEXICO

DRAWN BY: SJ/LMG

DATE: 8-2-91

PROJECT  
NUMBER:

CHK'D BY: [Signature]

REVISED:

3519-010-435

3519133

WELL NUMBER: OW4

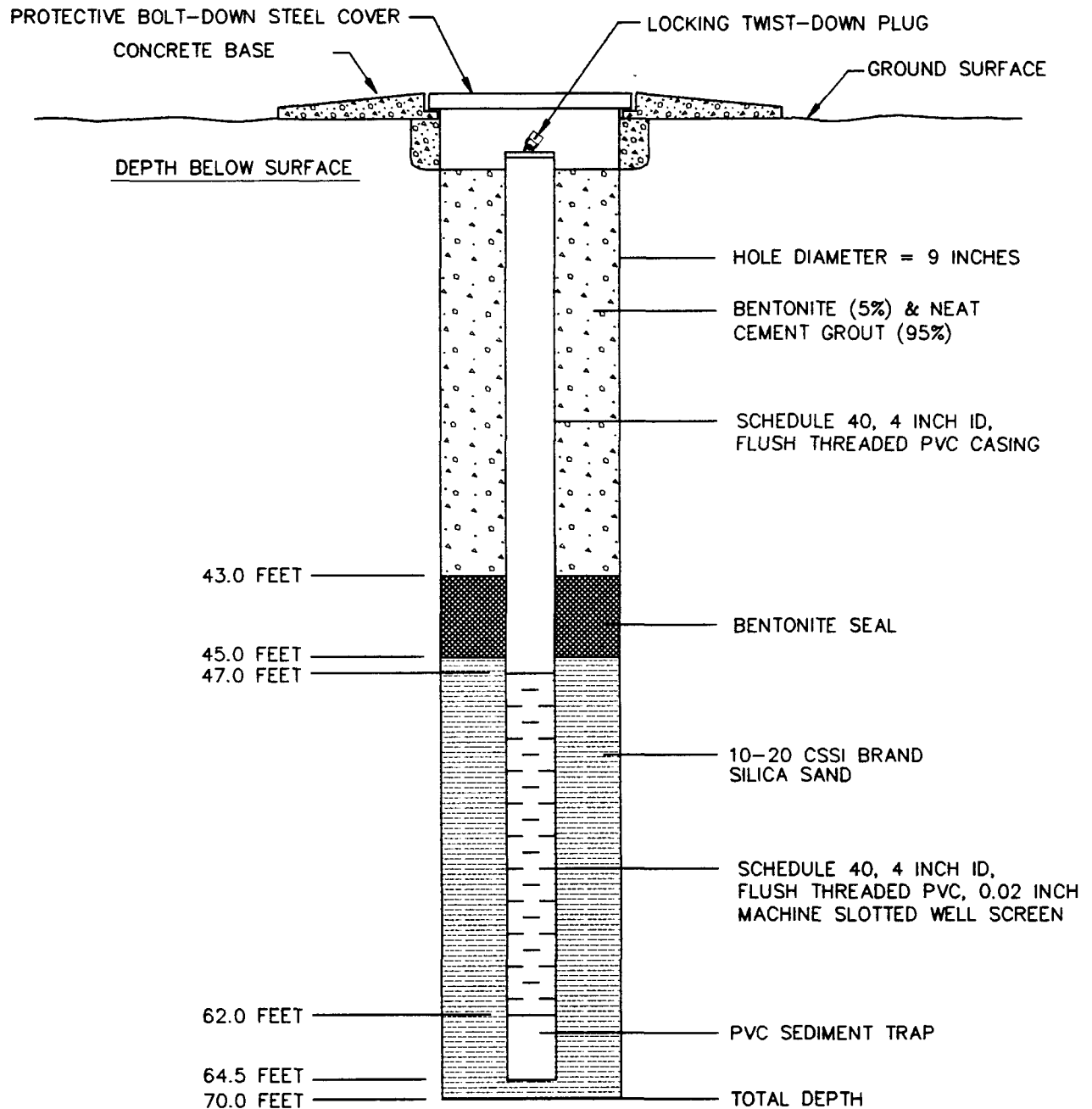
GROUND SURFACE ELEVATION: 3646.9 FT.

DATE INSTALLED: 5/29/91

TOP WELL CASING ELEVATION: 3646.89 FT.  
(MEASUREMENT POINT)

TYPE COMPLETION: BELOW GRADE

LOCATION: PLANT N 1054.85 PLANT E 1866.56



NOT TO SCALE

ELEVATIONS FROM U.S.G.S. 1969 DATUM

**ENSR™**

ENSR CONSULTING AND ENGINEERING

OBSERVATION WELL CONSTRUCTION DETAILS  
HOMCO INTERNATIONAL  
SITE 135  
HOBBS, NEW MEXICO

DRAWN BY: SJ/LMG

DATE: 8-2-91

PROJECT  
NUMBER:

CHK'D BY: [Signature]

REVISED:

3519-010-435

3519134





**APPENDIX G**

**WELL DEVELOPMENT RECORDS**

The wells were developed using the following steps:

- 1) After installation of the sand pack, but prior to installation of the bentonite plug, the wells were surge blocked 40 to 50 strokes with a two-stage, rubber gasket surge block.
- 2) At least 2 days after grouting, the wells were pumped with a 1.8-inch-OD, Grundfos brand electric submersible pump. The pump was raised and lowered along the screened interval. Dedicated discharge hoses were used for each well. The pump and cable were decontaminated between wells using the stepped procedure described in Appendix D.
- 3) The discharge water was collected in 55-gallon, labelled drums for temporary on-site storage until an OCD-approved disposal method has been determined.
- 4) The discharge water was monitored approximately once per purged well volume for:
  - visual turbidity,
  - visual sediment content,
  - color,
  - odor,
  - pH (Orion SA210),
  - Temperature (YSI),
  - Specific Conductance (YSI), and
  - Dissolved Oxygen (YSI S1B).
- 5) Each meter was calibrated at least once before each well development.
- 6) Pumpage continued until all parameters had stabilized for at least three well volumes.

# MONITOR WELL DEVELOPEMENT RECORD

Client: Homo International Job #: 3514-010-235  
 Location: Hobra 135 Hobbs NM Date: 5/30/91  
 Well #: OW1 Depth to water: 53.515 ft  
 Well Diameter: 4" ID Total Depth: 64.6 ft  
 gallons/feet: 0.66 Well Volume: 7.32 gallons

Sustainable pumping rate = 2 gpm

Volume #	unit PH	units/lw Cond.	°C Temp.	Color	Remarks	Ma 2
0 (0 gal)	—	—	—	brn	pumped mud	—
1.1 (8 gal)	7.52	850	25			0.6
2.2 (16 gal)	7.50	790	23.5	mod turbid light-tan		0.6
3.28 (24 gal)	7.43	800	24	" "		0.6
4.37 (32 gal)	7.42	775	23.5	sl. turbid " "		0.5
5.46 (40 gal)	7.38	790	23	" "		0.7
6.55 (48 gal)	7.43	775	23	" "	moved pump up-down several interval	0.7
7.65 (56 gal)	7.44	800	23	turbid tan-brn	moved pump up-down several interval	0.7
8.74 (64 gal)	7.35	850	23	turbid tan-brn.		0.7
9.83 (72 gal)	7.36	800	23	almost clear	moved pump up-down several interval	0.7
10.93 (80 gal)	—	—	—	—	—	—
12.02 (88 gal)	7.37	800	23	sl. turbid		0.6
13.11 (96 gal)	7.37	800	23	clear		0.5
14.21 (104 gal)	7.37	800	23	clear		0.6
well was surge blocked after installation of sand pack but prior to setting of bentonite seal. Performed 400 yds of well screen - sand level did not drop.						

# MONITOR WELL DEVELOPEMENT RECORD

Client: Huron International

Job #: 3517-010-235

Location: Amoco 135 Hubs NW1

Date: 5/30/91

Well #: OW2

Depth to water: 53.45 ft

Well Diameter: 4 inch ID

Total Depth: 65 ft

gallons/feet: 3.66

Well Volume: 7.62 gal

*Sustainable pumping rate = 1 gpm*

Volume #	Units PH	Conductivity Cond.	Temp.	Color	Remarks	mg/l DO
0 (0 gal)	7.37	630	30	very turbid		2.05
1.05 (8 gal)	7.52	660	21.5	lite-tan		2.30
2.10 (26 gal)	7.26	750	22	sl. turbid lite grey		4.1
3.15 (34 gal)	7.42	720	21.5	" "		5.0
4.20 (32 gal)	7.42	730	21	turbid lite-tan		4.7
5.25 (40 gal)	7.37	750	21	mod. turbid lite tan-grey		5.0
6.30 (48 gal)	7.42	760	21	" "	producing formation sand	4.8
7.35 (56 gal)	7.37	760	21	" "	" "	4.9
8.40 (64 gal)	7.26	800	22	sl. turbid lite tan-grey	" "	5.6
9.45 (72 gal)	7.33	800	21.5	" "	no sand	4.6
10.50 (80 gal)	7.26	790	22	sl. turbid almost clear	" "	5.2
11.55 (88 gal)	7.18	810	21.5	" "	" "	4.9
12.60 (96 gal)	7.16	800	22	sl. turbid lite grey		5.0
13.65 (104 gal)	7.24	740	21	clear		5.8
14.70 (112 gal)	7.21	740	22	sl. turbid		5.4

# MONITOR WELL DEVELOPEMENT RECORD

Client: Homo International Job #: 3514-010-235  
 Location: Homo 135 Hobs NM Date: 5/30/91  
 Well #: OW2 contd. Depth to water: 53.45 ft  
 Well Diameter: 4 inch ID Total Depth: 65 ft  
 gallons/feet: 0.66 Well Volume: 7.62 gal

*Sustainable pumping rate = 10 gpm*

Volume #	units PH	<del>Resistivity</del> Cond.	°C Temp.	Color	Remarks <i>Depth</i>
15.75 (120 gal)	7.08	740	22	clear	5.3
16.80 (128 gal)	7.18	740	21.5	clear	5.3
17.85 (136 gal)	7.28	750	21.5	clear	5.2
	Pump was moved up and down the screened interval.				

# MONITOR WELL DEVELOPEMENT RECORD

Client: Hamco International Job #: 3514-010-235  
 Location: Hamco B35 Hobbs, NM Date: 6/1/91  
 Well #: OW 3 Depth to water: 52.630 ft  
 Well Diameter: 4 inch ID Total Depth: 68.8 ft  
 gallons/foot: 2.66 Well Volume: 10.67 gallons

*sustainable pumping rate = 1.5 gpm*

Volume #	Units PH	unbalanced Cond.	°C Temp.	Color	Remarks <sup>mg/l?</sup>
0 (0gal)		pumping mud			2.0
0.75 (8gal)	7.06	775	25	turbid tan	musky pump up-down screen interval 2.0
1.50 (16gal)	7.03	725	24	mod. turbid grey	" " 2.1
2.25 (24gal)	7.04	700	23	sl. turbid	some formation sand 2.8
3.00 (32gal)	7.07	675	22.5	sl. turbid	musky pump up-down screen interval 3.1
3.75 (40gal)	—	—	—	—	—
4.50 (48gal)	7.03	675	22	sl. turbid	" " 3.2
5.25 (56gal)	7.06	675	22.5	" "	" " 3.4
6.0 (64gal)	7.07	650	22.5	sl. cloudy	" " 3.5
6.75 (72gal)	7.15	675	23	turbid	" " 4.5
7.50 (80gal)	7.09	675	22.5	cloudy	" " 3.6
8.25 (88gal)	7.06	675	22.5	sl. cloudy	" " 3.3
9.00 (96gal)	7.07	675	22.5	sl. cloudy	" " 3.4
Well was surge blocked after installation of sand pack but prior to setting of bentonite seal. Performed 40 swabs.					

# MONITOR WELL DEVELOPEMENT RECORD

Client: Hansen International

Job #: 3519-010-235

Location: Hansen 135 Holdings NM

Date: 5/31/91

Well #: 2W4

Depth to water: 54.46 feet

Well Diameter: 4 inch ID

Total Depth: 64.5 feet

gallons/feet: 0.65

Well Volume: 6.63 gallons

*Sustainable pump rate = 1.3 gpm*

Volume #	PH	Conductivity	Temp.	Color	Remarks
0 (0 gal)					
1.21 (8 gal)					
2.42 (16 gal)	6.96	1200	23.5	turbid brown	producing formation sand 2.4
3.63 (24 gal)	6.97	1250	24	sl. turbid	" " 3.6
4.83 (32 gal)	7.01	1200	23	sl. turbid	no sand produced 4.0
6.04 (40 gal)	7.11	1200	22	sl. turbid	
7.25 (48 gal)	7.11	1150	22	" "	moving pump up and down screened interval 4.1
8.46 (56 gal)	7.10	1175	22	turbid tan	" " 4.7
9.67 (64 gal)	6.95	1150	22	sl. turbid	" " 4.4
10.88 (72 gal)	7.10	1125	22	turbid	" " producing sand 4.6
12.08 (80 gal)	7.11	1100	22	very turbid brown	" " 4.8
13.29 (88 gal)	7.11	1100	22	sl. turbid	" " 5.0
14.50 (96 gal)	7.09	1100	21.5	" "	" " 4.7
15.71 (104 gal)	7.13	1120	21.5	sl. cloudy	" " 4.9
16.92 (112 gal)	7.11	1100	21.5	sl. cloudy	



### MONITOR WELL DEVELOPEMENT RECORD

Client: Hymn International

Job # : 3519-010-235

Location: Frame 135 Hobbs, NM

Date : 5/31/91

Well # : 0004

Depth to water : SA. 46 feet

Well Diameter : 4 inch ID

Total Depth : 64-5 feet

gallons/feet : 0.66

Well Volume : 6.63 gallons

[illegible]



**APPENDIX H**  
**ANALYTICAL DATA VALIDATION METHODS**

NDRC Laboratories, Inc. was subcontracted by ENSR to perform chemical analyses on soil and water samples. The analytical results were validated through the following steps:

- On-site audits of the NDRC Laboratories in Houston and Dallas, Texas.
- Submittal of equipment blank, trip blank, and duplicate samples.
- Review of internal NDRC quality control data.

#### On-Site Audits of NDRC by ENSR

Mr. C. Boyce (ENSR Corporate Quality Assurance Manager) performed audits of NDRC's Houston and Dallas laboratories. The Dallas laboratory (where water analyses for this investigation were performed) was audited on August 22, 1990. At that time, NDRC was given a qualified, conditional approval for use as a subcontractor to ENSR. A follow-up audit was performed on January 10, 1991. A random check of the previously reported deficiencies showed sufficient improvement to allow all restrictions to be lifted.

The Houston laboratory (where soil analyses for this investigation were performed) was audited on August 29, 1990. At that time, the laboratory was approved for use as a subcontractor with some qualifications. A follow-up audit was performed on January 4, 1991. A random check of the previously reported deficiencies showed sufficient improvement to allow all qualifications to be lifted.

#### Trip Blank, Equipment Blank and Duplicate Analyses

One trip blank accompanied each shipment of sample bottles from the laboratory to the field and each shipment of samples back to the laboratory. The blanks consisted of deionized water in appropriate sample jars. Blanks which accompanied soil samples were labelled TB1, TB2, TB3, and TB4. The blank which accompanied groundwater samples was labelled TB. These blanks were analyzed for the same suite of parameters as the samples they accompanied. No compounds were detected in any of the blanks. These results are presented in Appendices J and K.

One equipment blank (EB) accompanied the groundwater samples to the laboratory. The blank consisted of distilled water in the appropriate sample jars. The blank was analyzed for the same parameters as the groundwater samples. No compounds were detected. These results are presented in Appendix K.

ENSR attempted to collect one duplicate soil sample for every 10 samples submitted, but in most cases sufficient sample to submit duplicates could not be obtained. These efforts resulted in one duplicate sample for every 20 samples submitted (OW1-12D, OW3-3D). The results of these analyses are presented in Table 2-4. One duplicate sample (OW1D) was submitted with the groundwater samples. The result of the analyses of this sample are presented in Table 2-7.

#### Review of Internal NDRC Quality Control Data

Prior to their use, all analytical data were reviewed by the HOMCO Project Data Manager (Ms. D. Gabrysch). The data were managed following the steps described in the attached memo titled "HOMCO Laboratory Data Handling." The data were validated using the following procedure:

- The list of analytical results was checked against the Chain-of-Custody documentation to verify that all tests requested were performed as indicated and that the field identification matched the identification on the laboratory report (all matched).
- Date sampled and date extracted and/or analyzed were checked to ensure that holding times were met (No holding times had expired).
- Method blanks were checked to determine the existence and magnitude of contamination problems (No problems were found).
- Matrix spikes and duplicates were checked to verify that the percent recoveries were within the specified ranges as determined by EPA SW-846 (except xylenes). Percent recoveries for xylene are determined using laboratory control charts (All recoveries were within the required ranges).



**APPENDIX I**

**SOIL ANALYTICAL REPORTS**



# NDRC LABORATORIES, INC.

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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-1  
REPORT DATE : 14-JUN-1991

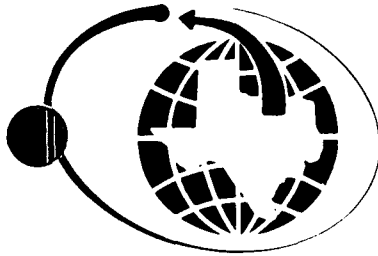
SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B3-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 24-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Chloromethane	10.0	µg/Kg	<	10.0	µg/Kg	
Bromomethane	10.0	µg/Kg	<	10.0	µg/Kg	
Vinyl chloride	10.0	µg/Kg	<	10.0	µg/Kg	
Chloroethane	10.0	µg/Kg	<	10.0	µg/Kg	
Methylene chloride	5.0	µg/Kg	<	5.0	µg/Kg	
Acetone	100	µg/Kg	<	100	µg/Kg	
Carbon disulfide	5.0	µg/Kg	<	5.0	µg/Kg	
1,1-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg	
1,1-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg	
1,2-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg	
Chloroform	5.0	µg/Kg	<	5.0	µg/Kg	
1,2-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg	
2-Butanone	100	µg/Kg	<	100	µg/Kg	
1,1,1-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg	
Carbon tetrachloride	5.0	µg/Kg	<	5.0	µg/Kg	

EN135013327





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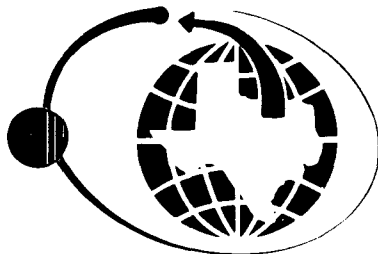
HOUSTON

REPORT NUMBER : H91-1427-1  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Vinyl acetate	50.0	µg/Kg	<	50.0	µg/Kg	
Bromodichloromethane	5.0	µg/Kg	<	5.0	µg/Kg	
1,2-Dichloropropane	5.0	µg/Kg	<	5.0	µg/Kg	
cis-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg	
Trichloroethene	5.0	µg/Kg	<	5.0	µg/Kg	
Chlorodibromomethane	5.0	µg/Kg	<	5.0	µg/Kg	
1,1,2-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg	
Benzene	5.0	µg/Kg	<	5.0	µg/Kg	
trans-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg	
Bromoform	5.0	µg/Kg	<	5.0	µg/Kg	
2-Chloroethylvinyl ether	10.0	µg/Kg	<	10.0	µg/Kg	
4-Methyl-2-pentanone	50.0	µg/Kg	<	50.0	µg/Kg	
2-Hexanone	50.0	µg/Kg	<	50.0	µg/Kg	
Tetrachloroethene	5.0	µg/Kg	<	5.0	µg/Kg	
Toluene	5.0	µg/Kg	<	5.0	µg/Kg	
1,1,2,2-Tetrachloroethane	5.0	µg/Kg	<	5.0	µg/Kg	
Chlorobenzene	5.0	µg/kg	<	5.0	µg/kg	
Ethylbenzene	5.0	µg/Kg	<	5.0	µg/Kg	
Styrene	5.0	µg/Kg	<	5.0	µg/Kg	
Xylenes	5.0	µg/Kg	<	5.0	µg/Kg	

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HOUSTON

REPORT NUMBER : H91-1427-1  
ANALYSIS METHOD : EPA 8240

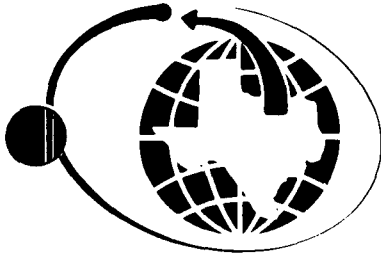
PAGE 3

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL			SPIKE RECOVERED	
1,2-Dichloroethane-d4 (SS)	50.0	µg/Kg		102	%
Toluene-d8 (SS)	50.0	µg/Kg		106	%
Bromofluorobenzene (SS)	50.0	µg/Kg		101	%

NDRC Laboratories, Inc.

*David R. Godwin* Kgu  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135012334



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HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-1  
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

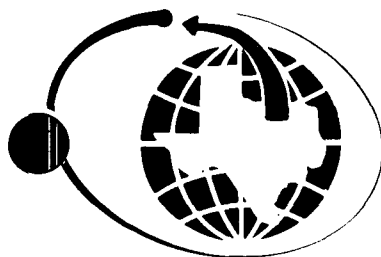
SAMPLE MATRIX : SOIL  
ID MARKS : B3-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 24-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected		VOA	10 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-1  
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B3-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 24-MAY-1991  
ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Phenol	660	µg/Kg	<	660	µg/Kg
2-Chlorophenol	660	µg/Kg	<	660	µg/Kg
2-Methylphenol	660	µg/Kg	<	660	µg/Kg
4-Methylphenol	660	µg/Kg	<	660	µg/Kg
2-Nitrophenol	660	µg/Kg	<	660	µg/Kg
2,4-Dimethylphenol	660	µg/Kg	<	660	µg/Kg
Benzoic acid	3300	µg/Kg	<	3300	µg/Kg
2,4-Dichlorophenol	660	µg/Kg	<	660	µg/Kg
4-Chloro-3-methylphenol	1300	µg/Kg	<	1300	µg/Kg
2,4,6-Trichlorophenol	660	µg/Kg	<	660	µg/Kg
2,4,5-Trichlorophenol	3300	µg/Kg	<	3300	µg/Kg
2,4-Dinitrophenol	3300	µg/Kg	<	3300	µg/Kg
4-Nitrophenol	3300	µg/Kg	<	3300	µg/Kg
4,6-Dinitro-2-methylphenol	3300	µg/Kg	<	3300	µg/Kg
Pentachlorophenol	3300	µg/Kg	<	3300	µg/Kg

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REPORT NUMBER : H91-1427-1  
ANALYSIS METHOD : EPA 8270

PAGE 2

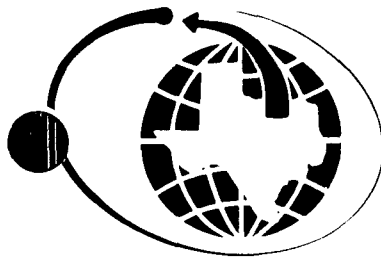
ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 µg/Kg	67.6 %
2-Fluorophenol (SS)	100 µg/Kg	66.9 %
2,4,6-Tribromophenol (SS)	100 µg/Kg	82.3 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-1

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B3-3

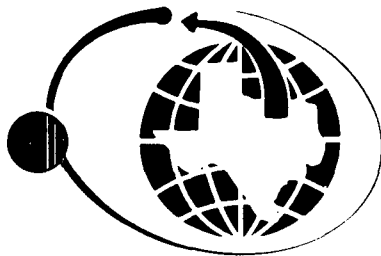
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 24-MAY-1991

ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Bis(2-chloroethyl)ether	660	µg/Kg	<	660	µg/Kg
1,3-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
1,4-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Benzyl alcohol	1300	µg/Kg	<	1300	µg/Kg
1,2-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Bis(2-Chloroisopropyl)ether	660	µg/Kg	<	660	µg/Kg
N-Nitroso-Di-N-propylamine	660	µg/Kg	<	660	µg/Kg
Hexachloroethane	660	µg/Kg	<	660	µg/Kg
Nitrobenzene	660	µg/Kg	<	660	µg/Kg
Isophorone	660	µg/Kg	<	660	µg/Kg
Bis(2-chloroethoxy)methane	660	µg/Kg	<	660	µg/Kg
1,2,4-Trichlorobenzene	660	µg/Kg	<	660	µg/Kg
Naphthalene	660	µg/Kg	<	660	µg/Kg
4-Chloroaniline	1300	µg/Kg	<	1300	µg/Kg
Hexachlorobutadiene	660	µg/Kg	<	660	µg/Kg

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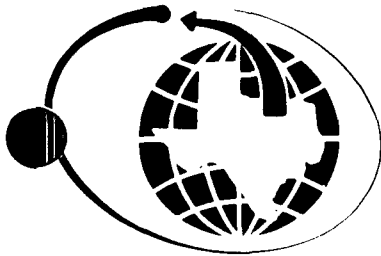
HOUSTON

REPORT NUMBER : H91-1427-1  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
2-Methylnaphthalene	660	µg/Kg	<	660	µg/Kg	
Hexachlorocyclopentadiene	660	µg/Kg	<	660	µg/Kg	
2-Chloronaphthalene	660	µg/Kg	<	660	µg/Kg	
2-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Dimethylphthalate	660	µg/Kg	<	660	µg/Kg	
Acenaphthylene	660	µg/Kg	<	660	µg/Kg	
2,6-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
3-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Acenaphthene	660	µg/Kg	<	660	µg/Kg	
Dibenzofuran	660	µg/Kg	<	660	µg/Kg	
2,4-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
Diethylphthalate	660	µg/Kg	<	660	µg/Kg	
4-Chlorophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Fluorene	660	µg/Kg	<	660	µg/Kg	
4-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
N-Nitrosodiphenylamine	660	µg/Kg	<	660	µg/Kg	
4-Bromophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Hexachlorobenzene	660	µg/Kg	<	660	µg/Kg	
Phenanthrene	660	µg/Kg	<	660	µg/Kg	
Anthracene	660	µg/Kg	<	660	µg/Kg	
Di-n-butylphthalate	660	µg/Kg	<	660	µg/Kg	

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REPORT NUMBER : H91-1427-1  
ANALYSIS METHOD : EPA 8270

PAGE 3

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Fluoranthene	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Pyrene	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Butyl benzyl phthalate	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
3,3'-Dichlorobenzidine	1300	$\mu\text{g/Kg}$	<	1300	$\mu\text{g/Kg}$	
Benzo(a)anthracene	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Chrysene	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Bis(2-ethylhexyl)phthalate	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Di-n-octylphthalate	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Benzo(b)fluoranthene	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Benzo(k)fluoranthene	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Benzo(a)pyrene	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Indeno(1,2,3-cd)pyrene	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Dibenzo(a,h)anthracene	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Benzo(g,h,i)perylene	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	

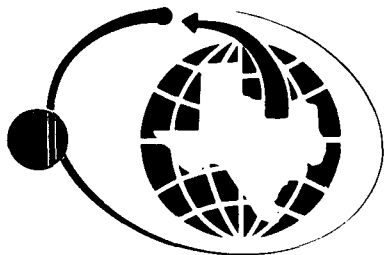
QUALITY CONTROL DATA						
SURROGATE COMPOUND	SPIKE LEVEL			SPIKE RECOVERED		
Nitrobenzene-d5 (SS)	50.0	$\mu\text{g/Kg}$		61.2	%	
2-Fluorobiphenyl (SS)	50.0	$\mu\text{g/Kg}$		67.0	%	
Terphenyl-d14 (SS)	50.0	$\mu\text{g/Kg}$		81.3	%	

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013340





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HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-2

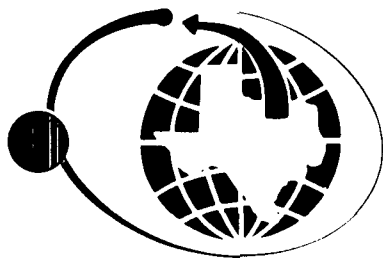
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B4-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 24-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/Kg	<	10.0	µg/Kg
Bromomethane	10.0	µg/Kg	<	10.0	µg/Kg
Vinyl chloride	10.0	µg/Kg	<	10.0	µg/Kg
Chloroethane	10.0	µg/Kg	<	10.0	µg/Kg
Methylene chloride	5.0	µg/Kg	<	5.0	µg/Kg
Acetone	100	µg/Kg	<	100	µg/Kg
Carbon disulfide	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chloroform	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
2-Butanone	100	µg/Kg	<	100	µg/Kg
1,1,1-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Carbon tetrachloride	5.0	µg/Kg	<	5.0	µg/Kg

EN135013341



# NDRC LABORATORIES, INC.

A member of the Inchcape Environmental Group

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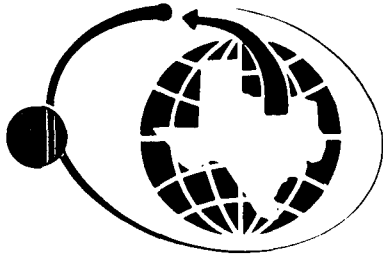
HOUSTON

REPORT NUMBER : H91-1427-2  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/Kg	<	50.0	µg/Kg
Bromodichloromethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloropropane	5.0	µg/Kg	<	5.0	µg/Kg
cis-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Trichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chlorodibromomethane	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Benzene	5.0	µg/Kg	<	5.0	µg/Kg
trans-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Bromoform	5.0	µg/Kg	<	5.0	µg/Kg
2-Chloroethylvinyl ether	10.0	µg/Kg	<	10.0	µg/Kg
4-Methyl-2-pentanone	50.0	µg/Kg	<	50.0	µg/Kg
2-Hexanone	50.0	µg/Kg	<	50.0	µg/Kg
Tetrachloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Toluene	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Chlorobenzene	5.0	µg/kg	<	5.0	µg/kg
Ethylbenzene	5.0	µg/Kg	<	5.0	µg/Kg
Styrene	5.0	µg/Kg	<	5.0	µg/Kg
Xylenes	5.0	µg/Kg	<	5.0	µg/Kg

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REPORT NUMBER : H91-1427-2  
ANALYSIS METHOD : EPA 8240

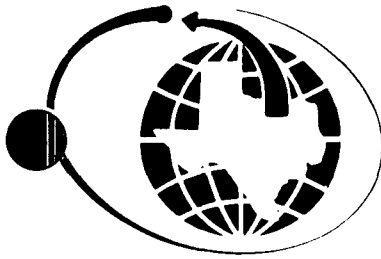
PAGE 3

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
1,2-Dichloroethane-d4 (SS)	50.0	µg/Kg	103	%
Toluene-d8 (SS)	50.0	µg/Kg	108	%
Bromofluorobenzene (SS)	50.0	µg/Kg	98.3	%

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-2

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

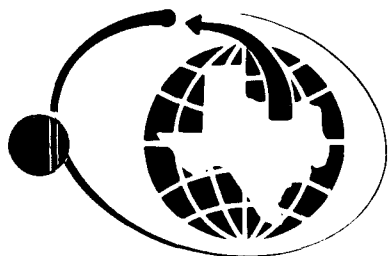
SAMPLE MATRIX : SOIL  
ID MARKS : B4-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 24-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected		VOA	10 $\mu\text{g/Kg}$

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-2

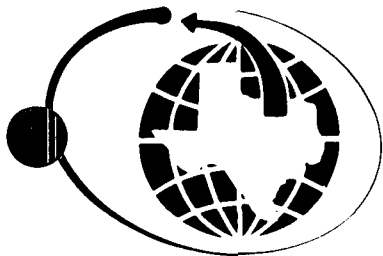
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B4-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 24-MAY-1991  
ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Phenol	660	µg/Kg	<	660	µg/Kg
2-Chlorophenol	660	µg/Kg	<	660	µg/Kg
2-Methylphenol	660	µg/Kg	<	660	µg/Kg
4-Methylphenol	660	µg/Kg	<	660	µg/Kg
2-Nitrophenol	660	µg/Kg	<	660	µg/Kg
2,4-Dimethylphenol	660	µg/Kg	<	660	µg/Kg
Benzoic acid	3300	µg/Kg	<	3300	µg/Kg
2,4-Dichlorophenol	660	µg/Kg	<	660	µg/Kg
4-Chloro-3-methylphenol	1300	µg/Kg	<	1300	µg/Kg
2,4,6-Trichlorophenol	660	µg/Kg	<	660	µg/Kg
2,4,5-Trichlorophenol	3300	µg/Kg	<	3300	µg/Kg
2,4-Dinitrophenol	3300	µg/Kg	<	3300	µg/Kg
4-Nitrophenol	3300	µg/Kg	<	3300	µg/Kg
4,6-Dinitro-2-methylphenol	3300	µg/Kg	<	3300	µg/Kg
Pentachlorophenol	3300	µg/Kg	<	3300	µg/Kg

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REPORT NUMBER : H91-1427-2  
ANALYSIS METHOD : EPA 8270

PAGE 2

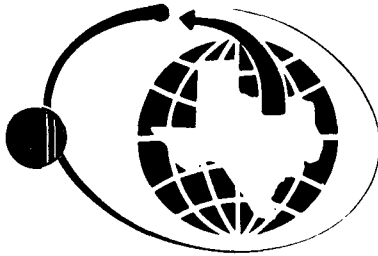
ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	54.7 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	55.9 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	69.9 %

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David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-2

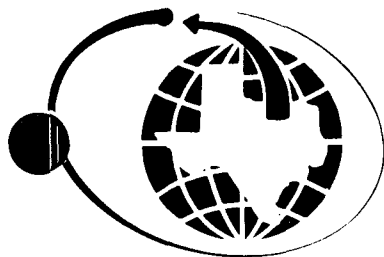
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B4-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 24-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Bis(2-chloroethyl)ether	660	µg/Kg	<	660	µg/Kg
1,3-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
1,4-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Benzyl alcohol	1300	µg/Kg	<	1300	µg/Kg
1,2-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Bis(2-Chloroisopropyl)ether	660	µg/Kg	<	660	µg/Kg
N-Nitroso-Di-N-propylamine	660	µg/Kg	<	660	µg/Kg
Hexachloroethane	660	µg/Kg	<	660	µg/Kg
Nitrobenzene	660	µg/Kg	<	660	µg/Kg
Isophorone	660	µg/Kg	<	660	µg/Kg
Bis(2-chloroethoxy)methane	660	µg/Kg	<	660	µg/Kg
1,2,4-Trichlorobenzene	660	µg/Kg	<	660	µg/Kg
Naphthalene	660	µg/Kg	<	660	µg/Kg
4-Chloroaniline	1300	µg/Kg	<	1300	µg/Kg
Hexachlorobutadiene	660	µg/Kg	<	660	µg/Kg

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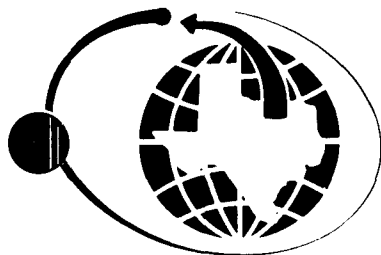
REPORT NUMBER : H91-1427-2  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
2-Methylnaphthalene	660	µg/Kg	<	660	µg/Kg	
Hexachlorocyclopentadiene	660	µg/Kg	<	660	µg/Kg	
2-Chloronaphthalene	660	µg/Kg	<	660	µg/Kg	
2-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Dimethylphthalate	660	µg/Kg	<	660	µg/Kg	
Acenaphthylene	660	µg/Kg	<	660	µg/Kg	
2,6-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
3-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Acenaphthene	660	µg/Kg	<	660	µg/Kg	
Dibenzofuran	660	µg/Kg	<	660	µg/Kg	
2,4-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
Diethylphthalate	660	µg/Kg	<	660	µg/Kg	
4-Chlorophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Fluorene	660	µg/Kg	<	660	µg/Kg	
4-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
N-Nitrosodiphenylamine	660	µg/Kg	<	660	µg/Kg	
4-Bromophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Hexachlorobenzene	660	µg/Kg	<	660	µg/Kg	
Phenanthrene	660	µg/Kg	<	660	µg/Kg	
Anthracene	660	µg/Kg	<	660	µg/Kg	
Di-n-butylphthalate	660	µg/Kg	<	660	µg/Kg	

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REPORT NUMBER : H91-1427-2  
ANALYSIS METHOD : EPA 8270

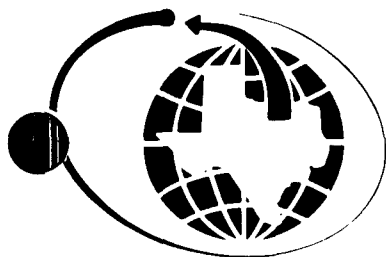
PAGE 3

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Fluoranthene	660	µg/Kg	<	660	µg/Kg	
Pyrene	660	µg/Kg	<	660	µg/Kg	
Butyl benzyl phthalate	660	µg/Kg	<	660	µg/Kg	
3,3'-Dichlorobenzidine	1300	µg/Kg	<	1300	µg/Kg	
Benzo(a)anthracene	660	µg/Kg	<	660	µg/Kg	
Chrysene	660	µg/Kg	<	660	µg/Kg	
Bis(2-ethylhexyl)phthalate	660	µg/Kg	<	660	µg/Kg	
Di-n-octylphthalate	660	µg/Kg	<	660	µg/Kg	
Benzo(b)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(k)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(a)pyrene	660	µg/Kg	<	660	µg/Kg	
Indeno(1,2,3-cd)pyrene	660	µg/Kg	<	660	µg/Kg	
Dibenzo(a,h)anthracene	660	µg/Kg	<	660	µg/Kg	
Benzo(g,h,i)perylene	660	µg/Kg	<	660	µg/Kg	

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
Nitrobenzene-d5 (SS)	50.0	µg/Kg	55.2	%
2-Fluorobiphenyl (SS)	50.0	µg/Kg	61.3	%
Terphenyl-d14 (SS)	50.0	µg/Kg	89.2	%

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*David R. Godwin* Kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer  
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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-3

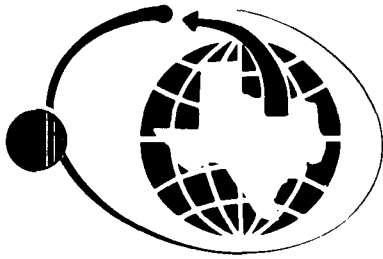
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW1-9  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 26-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Chloromethane	2500	$\mu\text{g/Kg}$	<	2500	$\mu\text{g/Kg}$	
Bromomethane	2500	$\mu\text{g/Kg}$	<	2500	$\mu\text{g/Kg}$	
Vinyl chloride	2500	$\mu\text{g/Kg}$	<	2500	$\mu\text{g/Kg}$	
Chloroethane	2500	$\mu\text{g/Kg}$	<	2500	$\mu\text{g/Kg}$	
Methylene chloride	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Acetone	25000	$\mu\text{g/Kg}$	<	25000	$\mu\text{g/Kg}$	
Carbon disulfide	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
1,1-Dichloroethene	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
1,1-Dichloroethane	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
1,2-Dichloroethene	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Chloroform	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
1,2-Dichloroethane	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
2-Butanone	25000	$\mu\text{g/Kg}$	<	25000	$\mu\text{g/Kg}$	
1,1,1-Trichloroethane	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Carbon tetrachloride	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	

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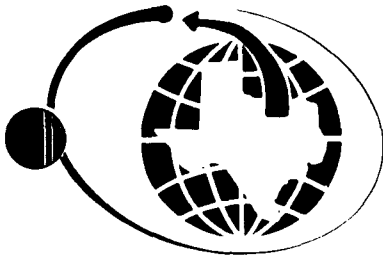
HOUSTON

REPORT NUMBER : H91-1427-3  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Vinyl acetate	12500	$\mu\text{g/Kg}$	<	12500	$\mu\text{g/Kg}$	
Bromodichloromethane	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
1,2-Dichloropropane	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
cis-1,3-Dichloropropene	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Trichloroethene	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Chlorodibromomethane	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
1,1,2-Trichloroethane	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Benzene	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
trans-1,3-Dichloropropene	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Bromoform	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
2-Chloroethylvinyl ether	2500	$\mu\text{g/Kg}$	<	2500	$\mu\text{g/Kg}$	
4-Methyl-2-pentanone	12500	$\mu\text{g/Kg}$	<	12500	$\mu\text{g/Kg}$	
2-Hexanone	12500	$\mu\text{g/Kg}$	<	12500	$\mu\text{g/Kg}$	
Tetrachloroethene	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Toluene	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
1,1,2,2-Tetrachloroethane	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Chlorobenzene	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Ethylbenzene	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Styrene	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	
Xylenes	1250	$\mu\text{g/Kg}$	<	1250	$\mu\text{g/Kg}$	

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REPORT NUMBER : H91-1427-3  
ANALYSIS METHOD : EPA 8240

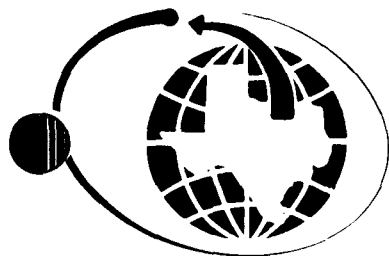
PAGE 3

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 $\mu\text{g/Kg}$	104 %
Toluene-d8 (SS)	50.0 $\mu\text{g/Kg}$	103 %
Bromofluorobenzene (SS)	50.0 $\mu\text{g/Kg}$	106 %

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NDRC Laboratories, Inc.

*David R. Godwin kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer



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HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-3

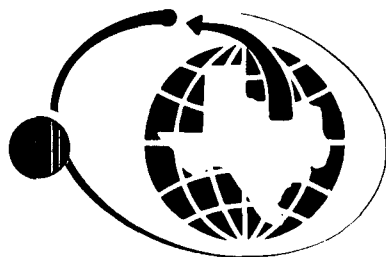
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW1-9  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 26-MAY-1991  
ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Phenol	660	µg/Kg	<	660	µg/Kg	
2-Chlorophenol	660	µg/Kg	<	660	µg/Kg	
2-Methylphenol	660	µg/Kg	<	660	µg/Kg	
4-Methylphenol	660	µg/Kg	<	660	µg/Kg	
2-Nitrophenol	660	µg/Kg	<	660	µg/Kg	
2,4-Dimethylphenol	660	µg/Kg	<	660	µg/Kg	
Benzoic acid	3300	µg/Kg	<	3300	µg/Kg	
2,4-Dichlorophenol	660	µg/Kg	<	660	µg/Kg	
4-Chloro-3-methylphenol	1300	µg/Kg	<	1300	µg/Kg	
2,4,6-Trichlorophenol	660	µg/Kg	<	660	µg/Kg	
2,4,5-Trichlorophenol	3300	µg/Kg	<	3300	µg/Kg	
2,4-Dinitrophenol	3300	µg/Kg	<	3300	µg/Kg	
4-Nitrophenol	3300	µg/Kg	<	3300	µg/Kg	
4,6-Dinitro-2-methylphenol	3300	µg/Kg	<	3300	µg/Kg	
Pentachlorophenol	3300	µg/Kg	<	3300	µg/Kg	

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REPORT NUMBER : H91-1427-3  
ANALYSIS METHOD : EPA 8270

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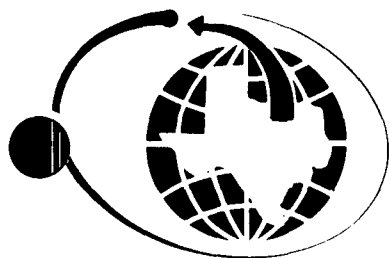
ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 µg/Kg	66.3 %
2-Fluorophenol (SS)	100 µg/Kg	64.1 %
2,4,6-Tribromophenol (SS)	100 µg/Kg	75.0 %

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013354



# NDRC LABORATORIES, INC.

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HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-3

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW1-9

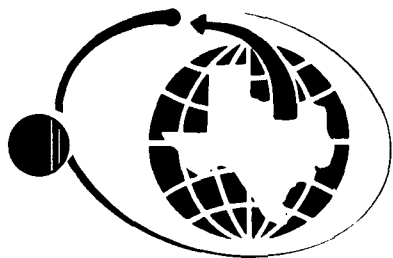
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 26-MAY-1991

ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Bis(2-chloroethyl)ether	660	µg/Kg	<	660	µg/Kg
1,3-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
1,4-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Benzyl alcohol	1300	µg/Kg	<	1300	µg/Kg
1,2-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Bis(2-Chloroisopropyl)ether	660	µg/Kg	<	660	µg/Kg
N-Nitroso-Di-N-propylamine	660	µg/Kg	<	660	µg/Kg
Hexachloroethane	660	µg/Kg	<	660	µg/Kg
Nitrobenzene	660	µg/Kg	<	660	µg/Kg
Isophorone	660	µg/Kg	<	660	µg/Kg
Bis(2-chloroethoxy)methane	660	µg/Kg	<	660	µg/Kg
1,2,4-Trichlorobenzene	660	µg/Kg	<	660	µg/Kg
Naphthalene	660	µg/Kg	<	660	µg/Kg
4-Chloroaniline	1300	µg/Kg	<	1300	µg/Kg
Hexachlorobutadiene	660	µg/Kg	<	660	µg/Kg

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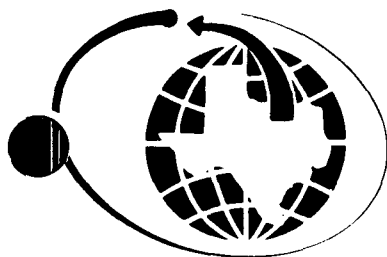
REPORT NUMBER : H91-1427-3  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
2-Methylnaphthalene	660	µg/Kg	<	660	µg/Kg	
Hexachlorocyclopentadiene	660	µg/Kg	<	660	µg/Kg	
2-Chloronaphthalene	660	µg/Kg	<	660	µg/Kg	
2-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Dimethylphthalate	660	µg/Kg	<	660	µg/Kg	
Acenaphthylene	660	µg/Kg	<	660	µg/Kg	
2,6-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
3-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Acenaphthene	660	µg/Kg	<	660	µg/Kg	
Dibenzofuran	660	µg/Kg	<	660	µg/Kg	
2,4-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
Diethylphthalate	660	µg/Kg	<	660	µg/Kg	
4-Chlorophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Fluorene	660	µg/Kg	<	660	µg/Kg	
4-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
N-Nitrosodiphenylamine	660	µg/Kg	<	660	µg/Kg	
4-Bromophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Hexachlorobenzene	660	µg/Kg	<	660	µg/Kg	
Phenanthrene	660	µg/Kg	<	660	µg/Kg	
Anthracene	660	µg/Kg	<	660	µg/Kg	
Di-n-butylphthalate	660	µg/Kg	<	660	µg/Kg	

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REPORT NUMBER : H91-1427-3  
ANALYSIS METHOD : EPA 8270

PAGE 3

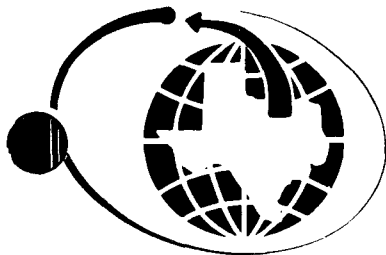
BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Fluoranthene	660	µg/Kg	<	660	µg/Kg	
Pyrene	660	µg/Kg	<	660	µg/Kg	
Butyl benzyl phthalate	660	µg/Kg	<	660	µg/Kg	
3,3'-Dichlorobenzidine	1300	µg/Kg	<	1300	µg/Kg	
Benzo(a)anthracene	660	µg/Kg	<	660	µg/Kg	
Chrysene	660	µg/Kg	<	660	µg/Kg	
Bis(2-ethylhexyl)phthalate	660	µg/Kg	<	660	µg/Kg	
Di-n-octylphthalate	660	µg/Kg	<	660	µg/Kg	
Benzo(b)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(k)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(a)pyrene	660	µg/Kg	<	660	µg/Kg	
Indeno(1,2,3-cd)pyrene	660	µg/Kg	<	660	µg/Kg	
Dibenzo(a,h)anthracene	660	µg/Kg	<	660	µg/Kg	
Benzo(g,h,i)perylene	660	µg/Kg	<	660	µg/Kg	

QUALITY CONTROL DATA						
SURROGATE COMPOUND	SPIKE LEVEL			SPIKE RECOVERED		
Nitrobenzene-d5 (SS)	50.0	µg/Kg		59.1	%	
2-Fluorobiphenyl (SS)	50.0	µg/Kg		65.6	%	
Terphenyl-d14 (SS)	50.0	µg/Kg		79.2	%	

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-4

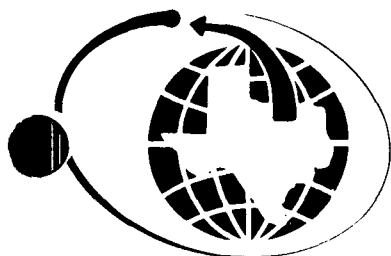
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW1-13  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 26-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/Kg	<	10.0	µg/Kg
Bromomethane	10.0	µg/Kg	<	10.0	µg/Kg
Vinyl chloride	10.0	µg/Kg	<	10.0	µg/Kg
Chloroethane	10.0	µg/Kg	<	10.0	µg/Kg
Methylene chloride	5.0	µg/Kg	<	5.0	µg/Kg
Acetone	100	µg/Kg	<	100	µg/Kg
Carbon disulfide	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chloroform	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
2-Butanone	100	µg/Kg	<	100	µg/Kg
1,1,1-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Carbon tetrachloride	5.0	µg/Kg	<	5.0	µg/Kg

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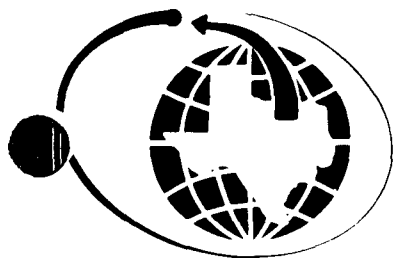
HOUSTON

REPORT NUMBER : H91-1427-4  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/Kg	<	50.0	µg/Kg
Bromodichloromethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloropropane	5.0	µg/Kg	<	5.0	µg/Kg
cis-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Trichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chlorodibromomethane	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Benzene	5.0	µg/Kg	<	5.0	µg/Kg
trans-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Bromoform	5.0	µg/Kg	<	5.0	µg/Kg
2-Chloroethylvinyl ether	10.0	µg/Kg	<	10.0	µg/Kg
4-Methyl-2-pentanone	50.0	µg/Kg	<	50.0	µg/Kg
2-Hexanone	50.0	µg/Kg	<	50.0	µg/Kg
Tetrachloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Toluene	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Chlorobenzene	5.0	µg/Kg	<	5.0	µg/Kg
Ethylbenzene	5.0	µg/Kg	<	5.0	µg/Kg
Styrene	5.0	µg/Kg	<	5.0	µg/Kg
Xylenes	5.0	µg/Kg	<	5.0	µg/Kg

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REPORT NUMBER : H91-1427-4  
ANALYSIS METHOD : EPA 8240

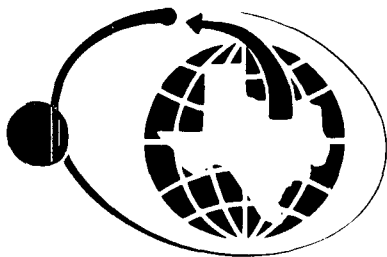
PAGE 3

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
1,2-Dichloroethane-d4 (SS)	50.0	µg/Kg	104	%
Toluene-d8 (SS)	50.0	µg/Kg	104	%
Bromofluorobenzene (SS)	50.0	µg/Kg	99.4	%

NDRC Laboratories, Inc.

*David R. Godwin* kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-4

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW1-13

: Proj:3519-010-335/Homco 135

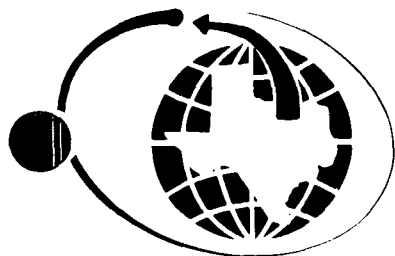
DATE SAMPLED : 26-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected		VOA	10 $\mu\text{g/Kg}$

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*David R. Godwin* Kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

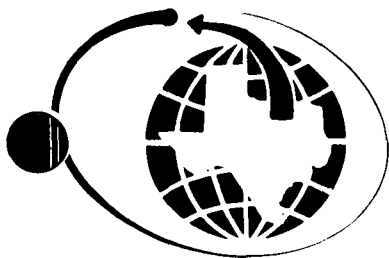
REPORT NUMBER : H91-1427-4  
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW1-13  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 26-MAY-1991  
ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Phenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
2-Chlorophenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
2-Methylphenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
4-Methylphenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
2-Nitrophenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
2,4-Dimethylphenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Benzoic acid	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	
2,4-Dichlorophenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
4-Chloro-3-methylphenol	1300	$\mu\text{g/Kg}$	<	1300	$\mu\text{g/Kg}$	
2,4,6-Trichlorophenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
2,4,5-Trichlorophenol	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	
2,4-Dinitrophenol	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	
4-Nitrophenol	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	
4,6-Dinitro-2-methylphenol	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	
Pentachlorophenol	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	

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REPORT NUMBER : H91-1427-4  
ANALYSIS METHOD : EPA 8270

PAGE 2

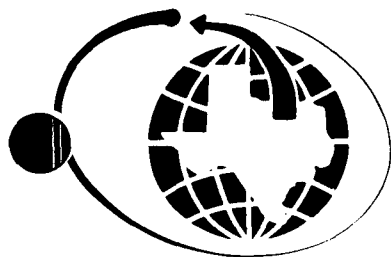
ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 µg/Kg	68.3 %
2-Fluorophenol (SS)	100 µg/Kg	65.4 %
2,4,6-Tribromophenol (SS)	100 µg/Kg	71.4 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-4

REPORT DATE : 14-JUN-1991

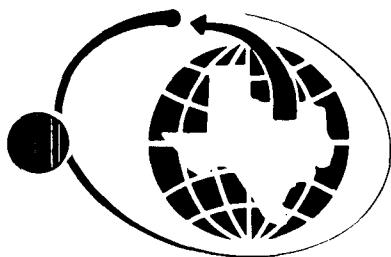
SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW1-13  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 26-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Bis(2-chloroethyl)ether	660	µg/Kg	<	660	µg/Kg
1,3-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
1,4-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Benzyl alcohol	1300	µg/Kg	<	1300	µg/Kg
1,2-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Bis(2-Chloroisopropyl)ether	660	µg/Kg	<	660	µg/Kg
N-Nitroso-Di-N-propylamine	660	µg/Kg	<	660	µg/Kg
Hexachloroethane	660	µg/Kg	<	660	µg/Kg
Nitrobenzene	660	µg/Kg	<	660	µg/Kg
Isophorone	660	µg/Kg	<	660	µg/Kg
Bis(2-chloroethoxy)methane	660	µg/Kg	<	660	µg/Kg
1,2,4-Trichlorobenzene	660	µg/Kg	<	660	µg/Kg
Naphthalene	660	µg/Kg	<	660	µg/Kg
4-Chloroaniline	1300	µg/Kg	<	1300	µg/Kg
Hexachlorobutadiene	660	µg/Kg	<	660	µg/Kg

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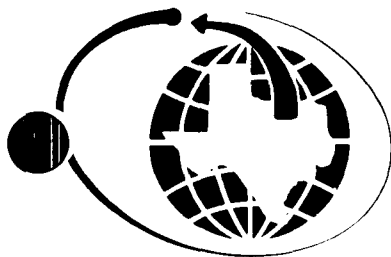
HOUSTON

REPORT NUMBER : H91-1427-4  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
2-Methylnaphthalene	660	µg/Kg	<	660	µg/Kg	
Hexachlorocyclopentadiene	660	µg/Kg	<	660	µg/Kg	
2-Chloronaphthalene	660	µg/Kg	<	660	µg/Kg	
2-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Dimethylphthalate	660	µg/Kg	<	660	µg/Kg	
Acenaphthylene	660	µg/Kg	<	660	µg/Kg	
2,6-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
3-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Acenaphthene	660	µg/Kg	<	660	µg/Kg	
Dibenzofuran	660	µg/Kg	<	660	µg/Kg	
2,4-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
Diethylphthalate	660	µg/Kg	<	660	µg/Kg	
4-Chlorophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Fluorene	660	µg/Kg	<	660	µg/Kg	
4-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
N-Nitrosodiphenylamine	660	µg/Kg	<	660	µg/Kg	
4-Bromophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Hexachlorobenzene	660	µg/Kg	<	660	µg/Kg	
Phenanthrene	660	µg/Kg	<	660	µg/Kg	
Anthracene	660	µg/Kg	<	660	µg/Kg	
Di-n-butylphthalate	660	µg/Kg	<	660	µg/Kg	

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HOUSTON

REPORT NUMBER : H91-1427-4  
ANALYSIS METHOD : EPA 8270

PAGE 3

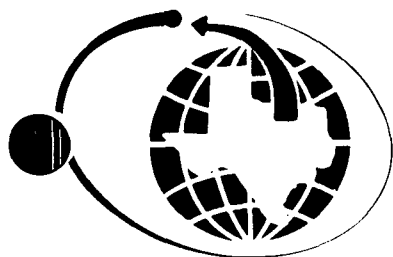
BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Fluoranthene	660	µg/Kg	<	660	µg/Kg	
Pyrene	660	µg/Kg	<	660	µg/Kg	
Butyl benzyl phthalate	660	µg/Kg	<	660	µg/Kg	
3,3'-Dichlorobenzidine	1300	µg/Kg	<	1300	µg/Kg	
Benzo(a)anthracene	660	µg/Kg	<	660	µg/Kg	
Chrysene	660	µg/Kg	<	660	µg/Kg	
Bis(2-ethylhexyl)phthalate	660	µg/Kg	<	660	µg/Kg	
Di-n-octylphthalate	660	µg/Kg	<	660	µg/Kg	
Benzo(b)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(k)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(a)pyrene	660	µg/Kg	<	660	µg/Kg	
Indeno(1,2,3-cd)pyrene	660	µg/Kg	<	660	µg/Kg	
Dibenzo(a,h)anthracene	660	µg/Kg	<	660	µg/Kg	
Benzo(g,h,i)perylene	660	µg/Kg	<	660	µg/Kg	

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
Nitrobenzene-d5 (SS)	50.0	µg/Kg	62.3	%
2-Fluorobiphenyl (SS)	50.0	µg/Kg	67.5	%
Terphenyl-d14 (SS)	50.0	µg/Kg	85.8	%

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-6

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B5-4

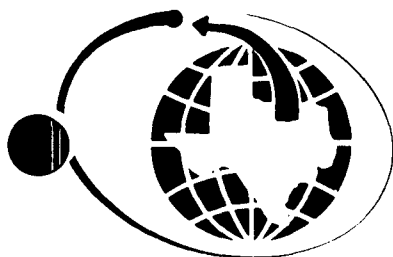
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 25-MAY-1991

ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/Kg	<	10.0	µg/Kg
Bromomethane	10.0	µg/Kg	<	10.0	µg/Kg
Vinyl chloride	10.0	µg/Kg	<	10.0	µg/Kg
Chloroethane	10.0	µg/Kg	<	10.0	µg/Kg
Methylene chloride	5.0	µg/Kg	<	5.0	µg/Kg
Acetone	100	µg/Kg	<	100	µg/Kg
Carbon disulfide	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chloroform	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
2-Butanone	100	µg/Kg	<	100	µg/Kg
1,1,1-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Carbon tetrachloride	5.0	µg/Kg	<	5.0	µg/Kg

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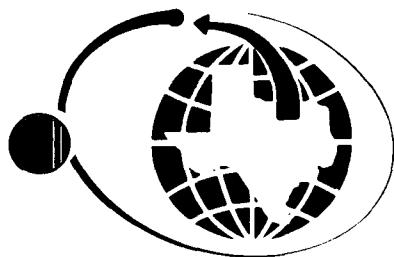
HOUSTON

REPORT NUMBER : H91-1427-6  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/Kg	<	50.0	µg/Kg
Bromodichloromethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloropropane	5.0	µg/Kg	<	5.0	µg/Kg
cis-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Trichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chlorodibromomethane	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Benzene	5.0	µg/Kg	<	5.0	µg/Kg
trans-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Bromoform	5.0	µg/Kg	<	5.0	µg/Kg
2-Chloroethylvinyl ether	10.0	µg/Kg	<	10.0	µg/Kg
4-Methyl-2-pentanone	50.0	µg/Kg	<	50.0	µg/Kg
2-Hexanone	50.0	µg/Kg	<	50.0	µg/Kg
Tetrachloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Toluene	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Chlorobenzene	5.0	µg/kg	<	5.0	µg/kg
Ethylbenzene	5.0	µg/Kg	<	5.0	µg/Kg
Styrene	5.0	µg/Kg	<	5.0	µg/Kg
Xylenes	5.0	µg/Kg	<	5.0	µg/Kg

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REPORT NUMBER : H91-1427-6  
ANALYSIS METHOD : EPA 8240

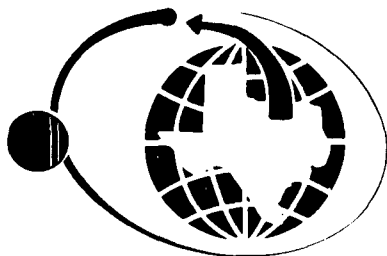
PAGE 3

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
1,2-Dichloroethane-d4 (SS)	50.0	µg/Kg	102	%
Toluene-d8 (SS)	50.0	µg/Kg	108	%
Bromofluorobenzene (SS)	50.0	µg/Kg	101	%

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-6

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

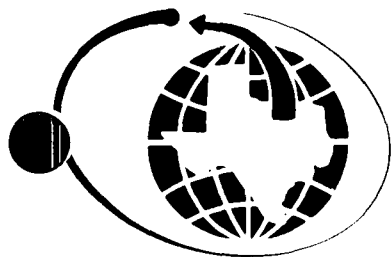
SAMPLE MATRIX : SOIL  
ID MARKS : B5-4  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 25-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected		VOA	10 µg/Kg

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*David R. Godwin Rgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer



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HOUSTON

DATE RECEIVED : 29-MAY-1991

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ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B5-4

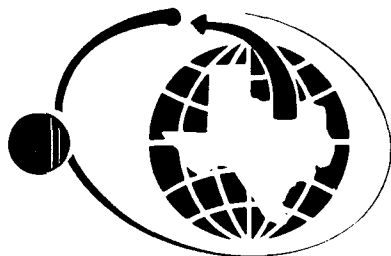
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 25-MAY-1991

ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Phenol	660	µg/Kg	<	660	µg/Kg
2-Chlorophenol	660	µg/Kg	<	660	µg/Kg
2-Methylphenol	660	µg/Kg	<	660	µg/Kg
4-Methylphenol	660	µg/Kg	<	660	µg/Kg
2-Nitrophenol	660	µg/Kg	<	660	µg/Kg
2,4-Dimethylphenol	660	µg/Kg	<	660	µg/Kg
Benzoic acid	3300	µg/Kg	<	3300	µg/Kg
2,4-Dichlorophenol	660	µg/Kg	<	660	µg/Kg
4-Chloro-3-methylphenol	1300	µg/Kg	<	1300	µg/Kg
2,4,6-Trichlorophenol	660	µg/Kg	<	660	µg/Kg
2,4,5-Trichlorophenol	3300	µg/Kg	<	3300	µg/Kg
2,4-Dinitrophenol	3300	µg/Kg	<	3300	µg/Kg
4-Nitrophenol	3300	µg/Kg	<	3300	µg/Kg
4,6-Dinitro-2-methylphenol	3300	µg/Kg	<	3300	µg/Kg
Pentachlorophenol	3300	µg/Kg	<	3300	µg/Kg

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REPORT NUMBER : H91-1427-6  
ANALYSIS METHOD : EPA 8270

PAGE 2

ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS

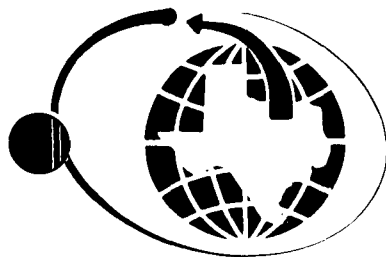
QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 µg/Kg	69.7 %
2-Fluorophenol (SS)	100 µg/Kg	64.1 %
2,4,6-Tribromophenol (SS)	100 µg/Kg	72.2 %

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*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-6

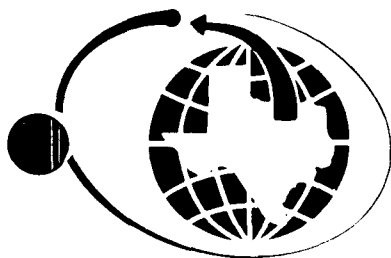
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B5-4  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 25-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Bis(2-chloroethyl) ether	660	µg/Kg	<	660	µg/Kg	
1,3-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
1,4-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Benzyl alcohol	1300	µg/Kg	<	1300	µg/Kg	
1,2-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Bis(2-Chloroisopropyl) ether	660	µg/Kg	<	660	µg/Kg	
N-Nitroso-Di-N-propylamine	660	µg/Kg	<	660	µg/Kg	
Hexachloroethane	660	µg/Kg	<	660	µg/Kg	
Nitrobenzene	660	µg/Kg	<	660	µg/Kg	
Isophorone	660	µg/Kg	<	660	µg/Kg	
Bis(2-chloroethoxy)methane	660	µg/Kg	<	660	µg/Kg	
1,2,4-Trichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Naphthalene	660	µg/Kg	<	660	µg/Kg	
4-Chloroaniline	1300	µg/Kg	<	1300	µg/Kg	
Hexachlorobutadiene	660	µg/Kg	<	660	µg/Kg	

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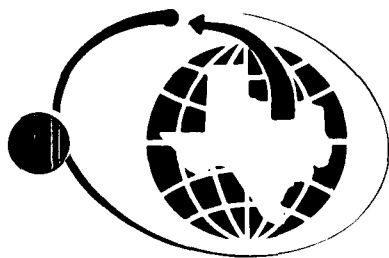
HOUSTON

REPORT NUMBER : H91-1427-6  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
2-Methylnaphthalene	660	µg/Kg	<	660	µg/Kg	
Hexachlorocyclopentadiene	660	µg/Kg	<	660	µg/Kg	
2-Chloronaphthalene	660	µg/Kg	<	660	µg/Kg	
2-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Dimethylphthalate	660	µg/Kg	<	660	µg/Kg	
Acenaphthylene	660	µg/Kg	<	660	µg/Kg	
2,6-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
3-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Acenaphthene	660	µg/Kg	<	660	µg/Kg	
Dibenzofuran	660	µg/Kg	<	660	µg/Kg	
2,4-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
Diethylphthalate	660	µg/Kg	<	660	µg/Kg	
4-Chlorophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Fluorene	660	µg/Kg	<	660	µg/Kg	
4-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
N-Nitrosodiphenylamine	660	µg/Kg	<	660	µg/Kg	
4-Bromophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Hexachlorobenzene	660	µg/Kg	<	660	µg/Kg	
Phenanthrene	660	µg/Kg	<	660	µg/Kg	
Anthracene	660	µg/Kg	<	660	µg/Kg	
Di-n-butylphthalate	660	µg/Kg	<	660	µg/Kg	

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REPORT NUMBER : H91-1427-6  
ANALYSIS METHOD : EPA 8270

PAGE 3

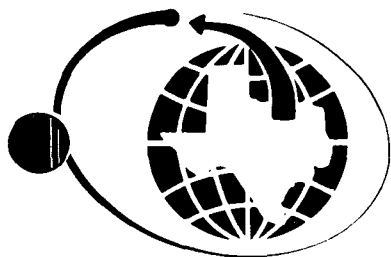
BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Fluoranthene	660	µg/Kg	<	660	µg/Kg	
Pyrene	660	µg/Kg	<	660	µg/Kg	
Butyl benzyl phthalate	660	µg/Kg	<	660	µg/Kg	
3,3'-Dichlorobenzidine	1300	µg/Kg	<	1300	µg/Kg	
Benzo(a)anthracene	660	µg/Kg	<	660	µg/Kg	
Chrysene	660	µg/Kg	<	660	µg/Kg	
Bis(2-ethylhexyl)phthalate	660	µg/Kg	<	660	µg/Kg	
Di-n-octylphthalate	660	µg/Kg	<	660	µg/Kg	
Benzo(b)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(k)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(a)pyrene	660	µg/Kg	<	660	µg/Kg	
Indeno(1,2,3-cd)pyrene	660	µg/Kg	<	660	µg/Kg	
Dibenzo(a,h)anthracene	660	µg/Kg	<	660	µg/Kg	
Benzo(g,h,i)perylene	660	µg/Kg	<	660	µg/Kg	

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
Nitrobenzene-d5 (SS)	50.0	µg/Kg	60.1	%
2-Fluorobiphenyl (SS)	50.0	µg/Kg	70.4	%
Terphenyl-d14 (SS)	50.0	µg/Kg	83.9	%

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-7

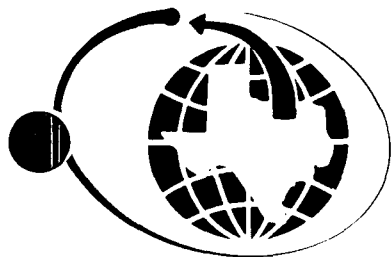
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B6-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 25-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT			RESULTS	
Chloromethane	10.0	µg/Kg	<	10.0	µg/Kg
Bromomethane	10.0	µg/Kg	<	10.0	µg/Kg
Vinyl chloride	10.0	µg/Kg	<	10.0	µg/Kg
Chloroethane	10.0	µg/Kg	<	10.0	µg/Kg
Methylene chloride	5.0	µg/Kg	<	5.0	µg/Kg
Acetone	100	µg/Kg	<	100	µg/Kg
Carbon disulfide	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chloroform	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
2-Butanone	100	µg/Kg	<	100	µg/Kg
1,1,1-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Carbon tetrachloride	5.0	µg/Kg	<	5.0	µg/Kg

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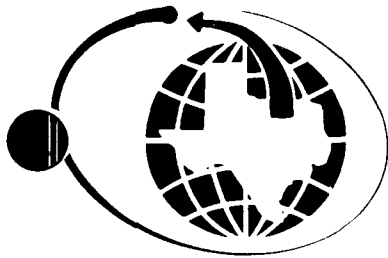
HOUSTON

REPORT NUMBER : H91-1427-7  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/Kg	<	50.0	µg/Kg
Bromodichloromethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloropropane	5.0	µg/Kg	<	5.0	µg/Kg
cis-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Trichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chlorodibromomethane	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Benzene	5.0	µg/Kg	<	5.0	µg/Kg
trans-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Bromoform	5.0	µg/Kg	<	5.0	µg/Kg
2-Chloroethylvinyl ether	10.0	µg/Kg	<	10.0	µg/Kg
4-Methyl-2-pentanone	50.0	µg/Kg	<	50.0	µg/Kg
2-Hexanone	50.0	µg/Kg	<	50.0	µg/Kg
Tetrachloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Toluene	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Chlorobenzene	5.0	µg/kg	<	5.0	µg/kg
Ethylbenzene	5.0	µg/Kg	<	5.0	µg/Kg
Styrene	5.0	µg/Kg	<	5.0	µg/Kg
Xylenes	5.0	µg/Kg	<	5.0	µg/Kg

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REPORT NUMBER : H91-1427-7  
ANALYSIS METHOD : EPA 8240

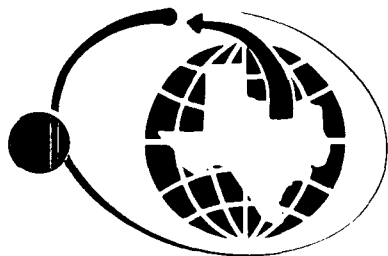
PAGE 3

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
1,2-Dichloroethane-d4 (SS)	50.0	µg/Kg	104	%
Toluene-d8 (SS)	50.0	µg/Kg	105	%
Bromofluorobenzene (SS)	50.0	µg/Kg	101	%

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

FN135013378



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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-7

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

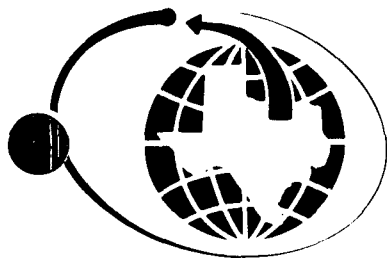
SAMPLE MATRIX : SOIL  
ID MARKS : B6-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 25-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected		VOA	10 µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-7

REPORT DATE : 14-JUN-1991

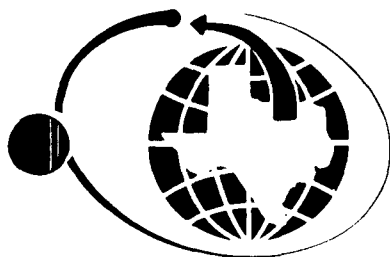
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SAMPLE MATRIX : SOIL  
ID MARKS : B6-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 25-MAY-1991  
ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Phenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
2-Chlorophenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
2-Methylphenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
4-Methylphenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
2-Nitrophenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
2,4-Dimethylphenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
Benzoic acid	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	
2,4-Dichlorophenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
4-Chloro-3-methylphenol	1300	$\mu\text{g/Kg}$	<	1300	$\mu\text{g/Kg}$	
2,4,6-Trichlorophenol	660	$\mu\text{g/Kg}$	<	660	$\mu\text{g/Kg}$	
2,4,5-Trichlorophenol	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	
2,4-Dinitrophenol	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	
4-Nitrophenol	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	
4,6-Dinitro-2-methylphenol	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	
Pentachlorophenol	3300	$\mu\text{g/Kg}$	<	3300	$\mu\text{g/Kg}$	

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REPORT NUMBER : H91-1427-7  
ANALYSIS METHOD : EPA 8270

PAGE 2

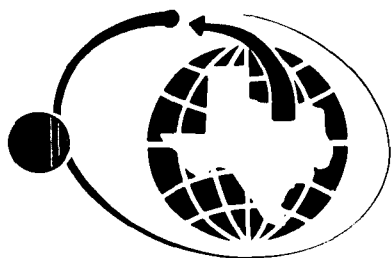
ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	63.0 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	63.4 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	68.8 %

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David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

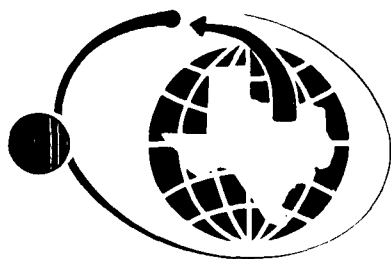
REPORT NUMBER : H91-1427-7  
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B6-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 25-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Bis(2-chloroethyl)ether	660	µg/Kg	<	660	µg/Kg
1,3-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
1,4-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Benzyl alcohol	1300	µg/Kg	<	1300	µg/Kg
1,2-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Bis(2-Chloroisopropyl)ether	660	µg/Kg	<	660	µg/Kg
N-Nitroso-Di-N-propylamine	660	µg/Kg	<	660	µg/Kg
Hexachloroethane	660	µg/Kg	<	660	µg/Kg
Nitrobenzene	660	µg/Kg	<	660	µg/Kg
Isophorone	660	µg/Kg	<	660	µg/Kg
Bis(2-chloroethoxy)methane	660	µg/Kg	<	660	µg/Kg
1,2,4-Trichlorobenzene	660	µg/Kg	<	660	µg/Kg
Naphthalene	660	µg/Kg	<	660	µg/Kg
4-Chloroaniline	1300	µg/Kg	<	1300	µg/Kg
Hexachlorobutadiene	660	µg/Kg	<	660	µg/Kg

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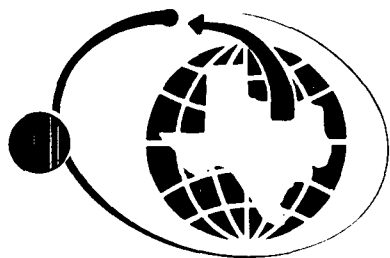
HOUSTON

REPORT NUMBER : H91-1427-7  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT		RESULTS			
2-Methylnaphthalene	660	µg/Kg	<	660	µg/Kg	
Hexachlorocyclopentadiene	660	µg/Kg	<	660	µg/Kg	
2-Chloronaphthalene	660	µg/Kg	<	660	µg/Kg	
2-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Dimethylphthalate	660	µg/Kg	<	660	µg/Kg	
Acenaphthylene	660	µg/Kg	<	660	µg/Kg	
2,6-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
3-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Acenaphthene	660	µg/Kg	<	660	µg/Kg	
Dibenzofuran	660	µg/Kg	<	660	µg/Kg	
2,4-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
Diethylphthalate	660	µg/Kg	<	660	µg/Kg	
4-Chlorophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Fluorene	660	µg/Kg	<	660	µg/Kg	
4-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
N-Nitrosodiphenylamine	660	µg/Kg	<	660	µg/Kg	
4-Bromophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Hexachlorobenzene	660	µg/Kg	<	660	µg/Kg	
Phenanthrene	660	µg/Kg	<	660	µg/Kg	
Anthracene	660	µg/Kg	<	660	µg/Kg	
Di-n-butylphthalate	660	µg/Kg	<	660	µg/Kg	

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REPORT NUMBER : H91-1427-7  
ANALYSIS METHOD : EPA 8270

PAGE 3

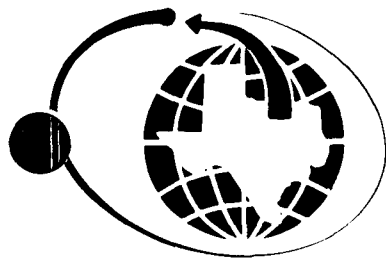
BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Fluoranthene	660	µg/Kg	<	660	µg/Kg	
Pyrene	660	µg/Kg	<	660	µg/Kg	
Butyl benzyl phthalate	660	µg/Kg	<	660	µg/Kg	
3,3'-Dichlorobenzidine	1300	µg/Kg	<	1300	µg/Kg	
Benzo(a)anthracene	660	µg/Kg	<	660	µg/Kg	
Chrysene	660	µg/Kg	<	660	µg/Kg	
Bis(2-ethylhexyl)phthalate	660	µg/Kg	<	660	µg/Kg	
Di-n-octylphthalate	660	µg/Kg	<	660	µg/Kg	
Benzo(b)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(k)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(a)pyrene	660	µg/Kg	<	660	µg/Kg	
Indeno(1,2,3-cd)pyrene	660	µg/Kg	<	660	µg/Kg	
Dibenzo(a,h)anthracene	660	µg/Kg	<	660	µg/Kg	
Benzo(g,h,i)perylene	660	µg/Kg	<	660	µg/Kg	

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
Nitrobenzene-d5 (SS)	50.0	µg/Kg	54.9	%
2-Fluorobiphenyl (SS)	50.0	µg/Kg	62.4	%
Terphenyl-d14 (SS)	50.0	µg/Kg	82.0	%

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

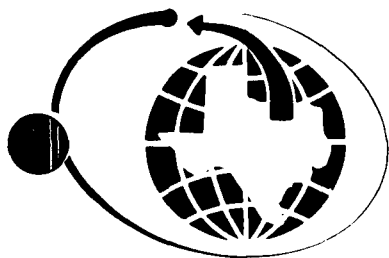
REPORT NUMBER : H91-1427-5  
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : LIQUID  
ID MARKS : TB2  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 28-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/L	<	10.0	µg/L
Bromomethane	10.0	µg/L	<	10.0	µg/L
Vinyl chloride	10.0	µg/L	<	10.0	µg/L
Chloroethane	10.0	µg/L	<	10.0	µg/L
Methylene chloride	5.0	µg/L	<	5.0	µg/L
Acetone	100	µg/L	<	100	µg/L
Carbon disulfide	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethene	5.0	µg/L	<	5.0	µg/L
1,1-Dichloroethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloroethene	5.0	µg/L	<	5.0	µg/L
Chloroform	5.0	µg/L	<	5.0	µg/L
1,2-Dichloroethane	5.0	µg/L	<	5.0	µg/L
2-Butanone	100	µg/L	<	100	µg/L
1,1,1-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Carbon tetrachloride	5.0	µg/L	<	5.0	µg/L

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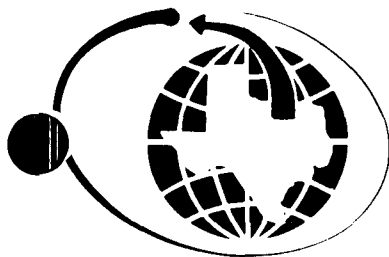
HOUSTON

REPORT NUMBER : H91-1427-5  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/L	<	50.0	µg/L
Bromodichloromethane	5.0	µg/L	<	5.0	µg/L
1,2-Dichloropropane	5.0	µg/L	<	5.0	µg/L
cis-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Trichloroethene	5.0	µg/L	<	5.0	µg/L
Chlorodibromomethane	5.0	µg/L	<	5.0	µg/L
1,1,2-Trichloroethane	5.0	µg/L	<	5.0	µg/L
Benzene	5.0	µg/L	<	5.0	µg/L
trans-1,3-Dichloropropene	5.0	µg/L	<	5.0	µg/L
Bromoform	5.0	µg/L	<	5.0	µg/L
2-Chloroethylvinyl ether	10.0	µg/L	<	10.0	µg/L
4-Methyl-2-pentanone	50.0	µg/L	<	50.0	µg/L
2-Hexanone	50.0	µg/L	<	50.0	µg/L
Tetrachloroethene	5.0	µg/L	<	5.0	µg/L
Toluene	5.0	µg/L	<	5.0	µg/L
1,1,2,2-Tetrachloroethane	5.0	µg/L	<	5.0	µg/L
Chlorobenzene	5.0	µg/L	<	5.0	µg/L
Ethylbenzene	5.0	µg/L	<	5.0	µg/L
Styrene	5.0	µg/L	<	5.0	µg/L
Xylenes	5.0	µg/L	<	5.0	µg/L

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REPORT NUMBER : H91-1427-5  
ANALYSIS METHOD : EPA 8240

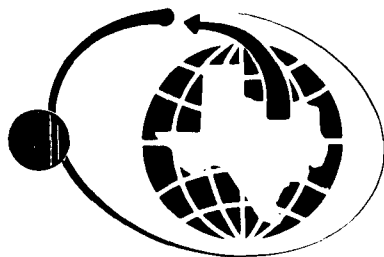
PAGE 3

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
1,2-Dichloroethane-d4 (SS)	50.0	µg/L	101	%
Toluene-d8 (SS)	50.0	µg/L	107	%
Bromofluorobenzene (SS)	50.0	µg/L	90.6	%

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*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-5  
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : LIQUID  
ID MARKS : TB2  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 28-MAY-1991

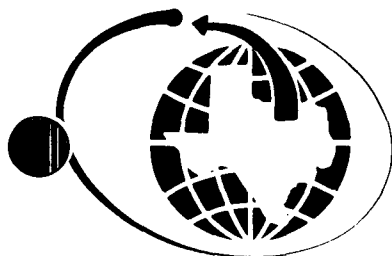
TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected		VOA	10 µg/L

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-12

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

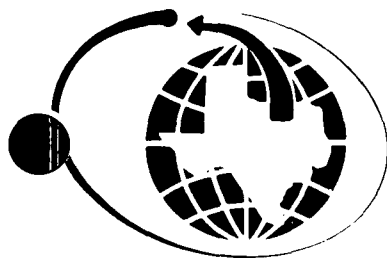
SAMPLE MATRIX : SOIL  
ID MARKS : OW2-13  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS				
COMPOUND	RETENTION TIME	FRACTION	RESULT	
Decane	11.33	ABN	2500	µg/Kg
2,2,4-Trimethyldecane	11.91	ABN	3100	µg/Kg
2,2,4,6,6-Pentamethylheptane	12.05	ABN	1200	µg/Kg
2-Methyl-5-propylnonane	12.16	ABN	3100	µg/Kg
2,2,6-Trimethyldecane	12.24	ABN	900	µg/Kg
2,2,3,3-Tetramethylnonane	12.60	ABN	4900	µg/Kg
2,2,5,5-Tetramethylnonane	12.81	ABN	3000	µg/Kg
2,8-Dimethylundecane	13.08	ABN	2100	µg/Kg
4,5-Dimethylundecane	13.36	ABN	1300	µg/Kg
Dodecane	13.62	ABN	3400	µg/Kg
2,2,5,5-Tetramethylhexane	10.34	ABN	1300	µg/Kg

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Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-3

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

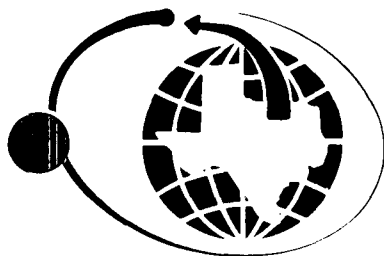
SAMPLE MATRIX : SOIL  
ID MARKS : OW1-9  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 26-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS				
COMPOUND	RETENTION TIME	FRACTION	RESULT	
Decane	19.71	VOA	21000	µg/Kg
Trimethyloctane	20.21	VOA	11000	µg/Kg
Methylpropylcyclohexane	20.66	VOA	19000	µg/Kg
Unidentified alkane	21.02	VOA	21000	µg/Kg
Unidentified aromatic hydrocarbon	21.47	VOA	13000	µg/Kg
Undecane	21.68	VOA	25000	µg/Kg
Unidentified alkene	21.98	VOA	10000	µg/Kg
Unidentified aromatic hydrocarbon	22.33	VOA	4800	µg/Kg
Decahydro-methylnaphthalene	22.52	VOA	4800	µg/Kg
Unidentified cyclic hydrocarbon	22.66	VOA	5500	µg/Kg
Decahydro-methylnaphthalene	22.86	VOA	7200	µg/Kg
Ethyl-dimethylbenzene	23.52	VOA	5800	µg/Kg

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-3

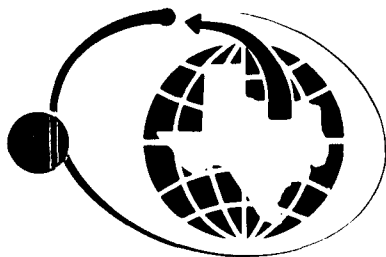
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW1-9  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 26-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS				
COMPOUND	RETENTION TIME	FRACTION	RESULT	
2,4,6-Trimethyloctane	10.34	ABN	2100	µg/Kg
Decane	11.36	ABN	6300	µg/Kg
2,6-Dimethylnonane	11.89	ABN	6500	µg/Kg
Butylcyclohexane	12.07	ABN	2200	µg/Kg
3-Methyldecane	12.16	ABN	2600	µg/Kg
3,7-Dimethylnonane	12.25	ABN	1900	µg/Kg
2,2,5,5-Tetramethylheptane	12.60	ABN	6400	µg/Kg
3-Methylundecane	12.84	ABN	5300	µg/Kg
3-Ethyl-2,7-dimethyloctane	12.98	ABN	2200	µg/Kg
(1,2-Dimethylbutyl)cyclohexane	13.39	ABN	2300	µg/Kg
Undecane	13.68	ABN	11000	µg/Kg
Decahydro-2-methylnaphthalene	13.87	ABN	850	µg/Kg
Pentylcyclohexane	14.36	ABN	1100	µg/Kg
Unidentified aromatic hydrocarbon	14.54	ABN	950	µg/Kg
1-Methyl-4-isopropylbenzene	14.71	ABN	1800	µg/Kg
3,7-Dimethylundecane	14.95	ABN	1100	µg/Kg

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REPORT NUMBER : H91-1427-3  
ANALYSIS METHOD : EPA 625/8270

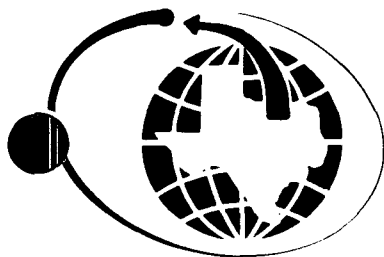
PAGE 2

TENTATIVELY IDENTIFIED COMPOUNDS				
COMPOUND	RETENTION TIME	FRACTION	RESULT	
2,3,5-Trimethylundecane	15.07	ABN	1300	$\mu\text{g/Kg}$
Tetradecane	19.33	ABN	2800	$\mu\text{g/Kg}$
Heptadecane	24.04	ABN	1500	$\mu\text{g/Kg}$
Nonylphenol	24.33	ABN	1200	$\mu\text{g/Kg}$

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*David R. Godwin* Kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-4

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW1-13

: Proj:3519-010-335/Homco 135

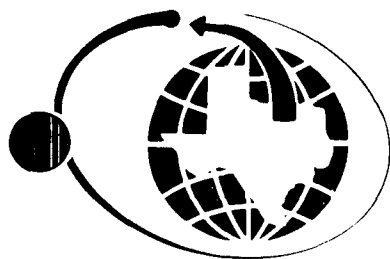
DATE SAMPLED : 26-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
Heneicosane	32.67	ABN	670 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

**EN135013393**



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-6

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B5-4

: Proj:3519-010-335/Homco 135

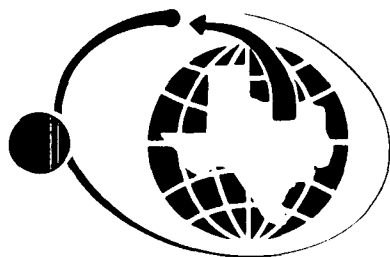
DATE SAMPLED : 25-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS				
COMPOUND	RETENTION TIME	FRACTION	RESULT	
Eicosane	31.58	ABN	810	µg/Kg
Heneicosane	32.67	ABN	1100	µg/Kg
Docosane	34.70	ABN	680	µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-7

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B6-3

: Proj:3519-010-335/Homco 135

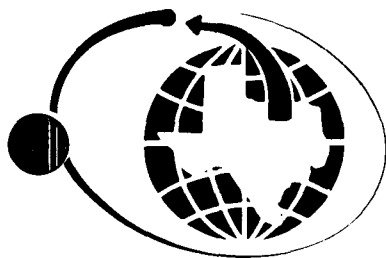
DATE SAMPLED : 25-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
Heneicosane	32.66	ABN	960 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-2

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B4-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 24-MAY-1991

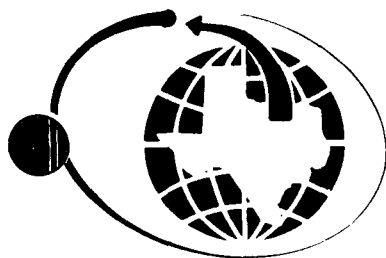
TENTATIVELY IDENTIFIED COMPOUNDS				
COMPOUND	RETENTION TIME	FRACTION	RESULT	
Tricosane	35.89	ABN	780	µg/Kg
Tetracosane	37.07	ABN	780	µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135J13396





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HOUSTON

DATE RECEIVED : 29-MAY-1991

REPORT NUMBER : H91-1427-1

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B3-3

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 24-MAY-1991

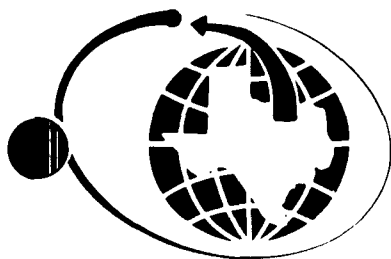
TENTATIVELY IDENTIFIED COMPOUNDS

COMPOUND	RETENTION TIME	FRACTION	RESULT
Heneicosane	32.68	ABN	830 $\mu\text{g/Kg}$

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*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-1  
REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

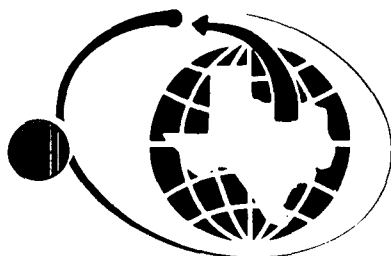
SAMPLE MATRIX: SOIL  
ID MARKS: B3-3  
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
MTBE by EPA Method 8020		
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-1  
REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

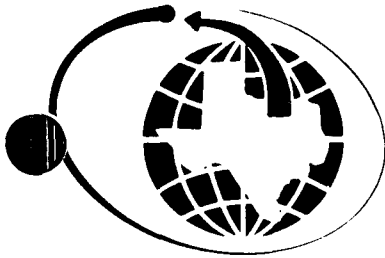
SAMPLE MATRIX: SOIL  
ID MARKS: B3-3  
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	90.0 %

NDRC Laboratories, Inc.

*David R. Godwin* kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-2

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B3-5

Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT			RESULTS	
BTEX Analysis by EPA Method 8020					
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin* kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013400



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-2

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B3-5

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

MTBE by EPA Method 8020

Methyl Tertiary Butyl Ether

10.0

µg/Kg

<

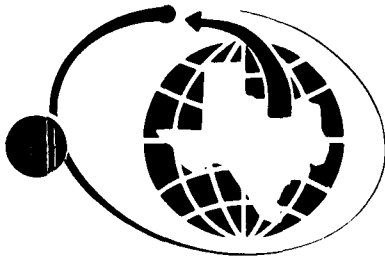
10.0

µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013-01



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-2

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B3-5

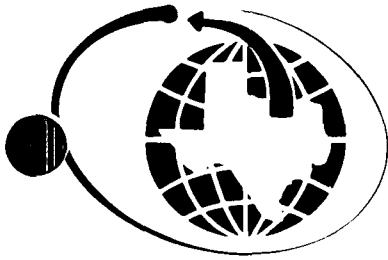
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT			RESULTS	
TRPH by EPA Method 418.1					
Total Petroleum Hydrocarbon	10	mg/Kg	<	10	mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135-13402



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-2

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B3-5

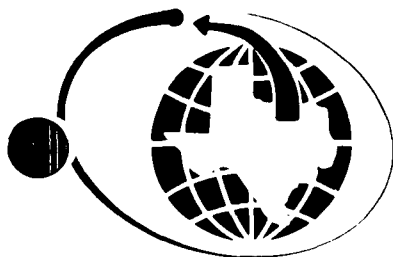
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	87.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013403



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-3

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B4-3

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

MTBE by EPA Method 8020

Methyl Tertiary Butyl Ether

10.0

µg/Kg

<

10.0

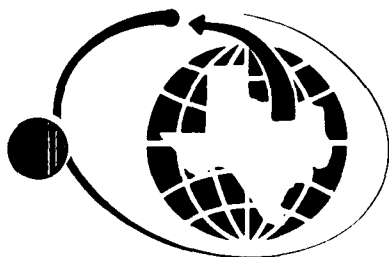
µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-3

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B4-3

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Solids

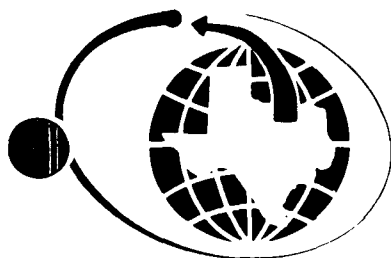
1.0 %

88.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013405



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-4

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B4-5

Proj:3519-010-335/Homco 135

---

## TEST REQUESTED

## DETECTION LIMIT

## RESULTS

---

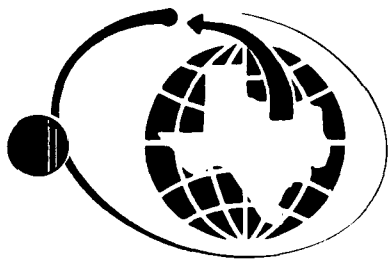
BTEX Analysis by EPA Method 8020

Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg		3.0	µg/Kg

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013406



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-4

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B4-5

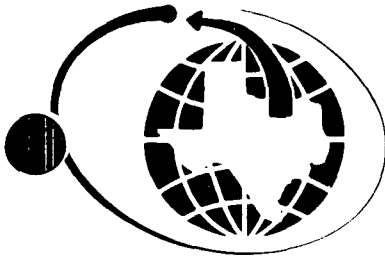
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
MTBE by EPA Method 8020		
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013407



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-4

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B4-5

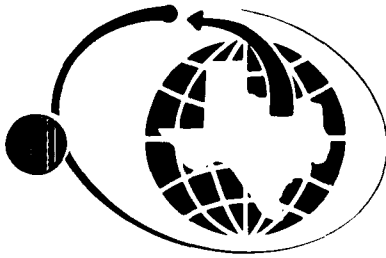
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT			RESULTS	
<hr/>					
TRPH by EPA Method 418.1					
Total Petroleum Hydrocarbon	10	mg/Kg	<	10	mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

00125012408



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-4

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B4-5

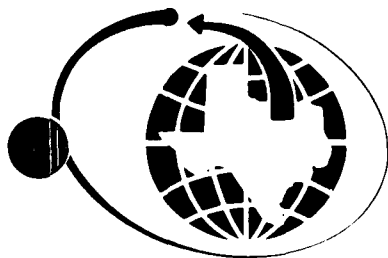
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	87.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013409



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-5

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-7

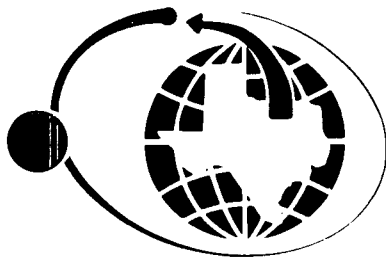
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT			RESULTS	
BTEX Analysis by EPA Method 8020					
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg		2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg		38.0	µg/Kg
Xylenes	2.0	µg/Kg		290	µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013410



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-5  
REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

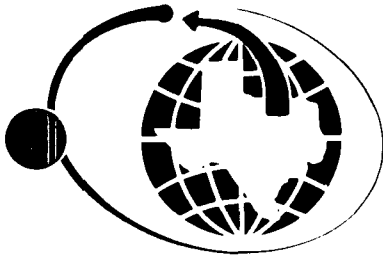
SAMPLE MATRIX: SOIL  
ID MARKS: OW1-7  
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
MTBE by EPA Method 8020		
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013411



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-5

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-7

Proj:3519-010-335/Homco 135

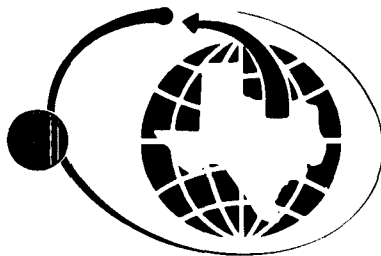
TEST REQUESTED	DETECTION LIMIT		RESULTS	
TRPH by EPA Method 418.1				
Total Petroleum Hydrocarbon	500	mg/Kg	1600	mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin* kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013412





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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-5

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-7

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Solids

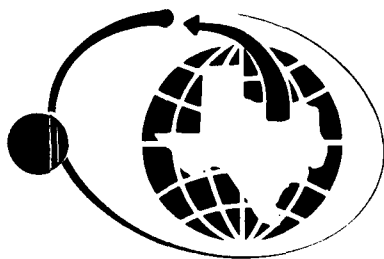
1.0 %

88.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013413



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-6

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-9

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

MTBE by EPA Method 8020

Methyl Tertiary Butyl Ether

10.0

µg/Kg

<

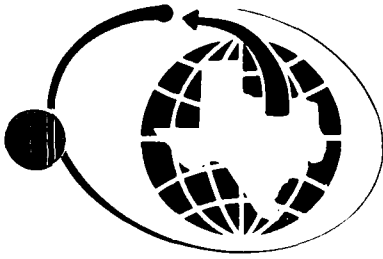
10.0

µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

FN135013414



# NDRC LABORATORIES, INC.

A member of the Inchcape Environmental Group

11155 South Main, Houston, Texas 77025 • (713) 661-8150 • FAX (713) 661-2661

BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-6

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-9

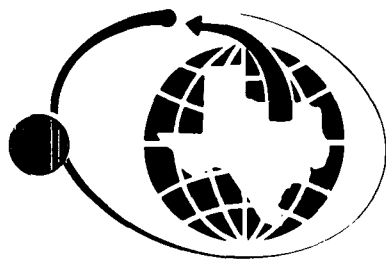
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	84.0 %

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*David R. Godwin* kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013415



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-7  
REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

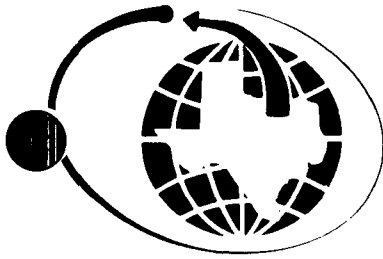
SAMPLE MATRIX: SOIL  
ID MARKS: OW1-12  
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT			RESULTS
BTEX Analysis by EPA Method 8020				
Benzene	2.0	µg/Kg	<	2.0
Toluene	2.0	µg/Kg	<	2.0
Ethyl benzene	2.0	µg/Kg	<	2.0
Xylenes	2.0	µg/Kg		8.0

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David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-7

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-12

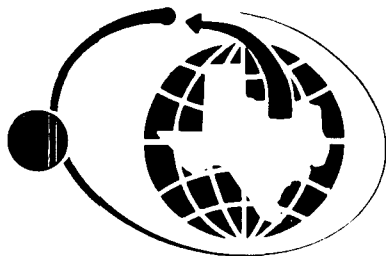
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
MTBE by EPA Method 8020		
Methyl Tertiary Butyl Ether	10.0 µg/Kg	< 10.0 µg/Kg

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-7

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-12

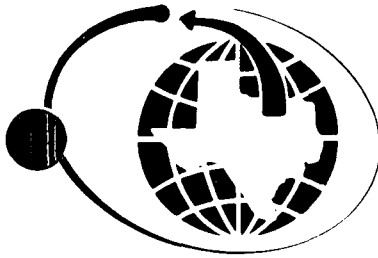
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT		RESULTS	
TRPH by EPA Method 418.1				
Total Petroleum Hydrocarbon	10	mg/Kg	<	10 mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013418



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-7

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-12

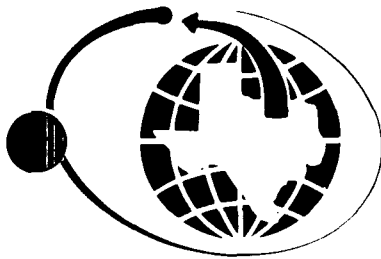
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	87.0 %

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David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013419



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-8

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-12D

Proj:3519-010-335/Homco 135

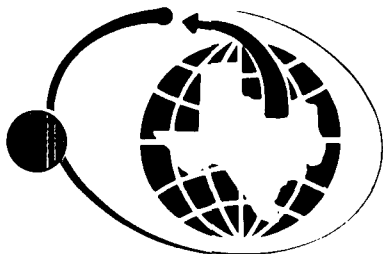
TEST REQUESTED	DETECTION LIMIT			RESULTS	
BTEX Analysis by EPA Method 8020					
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

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*David R. Godwin kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013420





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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-8

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-12D

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

MTBE by EPA Method 8020

Methyl Tertiary Butyl Ether

10.0

µg/Kg

<

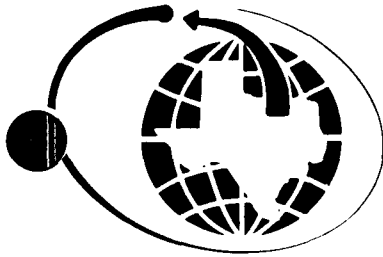
10.0

µg/Kg

NDRC Laboratories, Inc.

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David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013421



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-8

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-12D

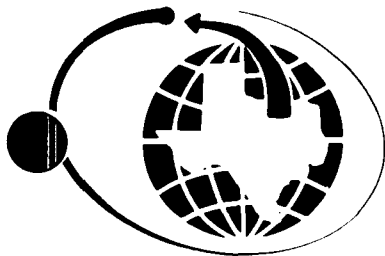
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT		RESULTS	
<hr/>				
TRPH by EPA Method 418.1				
Total Petroleum Hydrocarbon	10	mg/Kg	25	mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-8

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-12D

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Solids

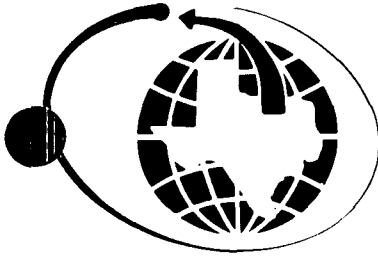
1.0 %

89.0 %

NDRC Laboratories, Inc.

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Chief Executive Officer

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DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-9

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-13

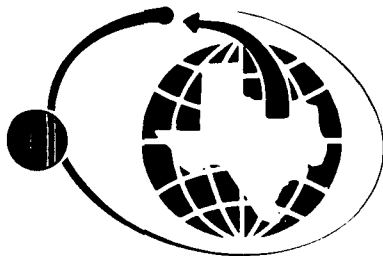
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
MTBE by EPA Method 8020		
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013424



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-9

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-13

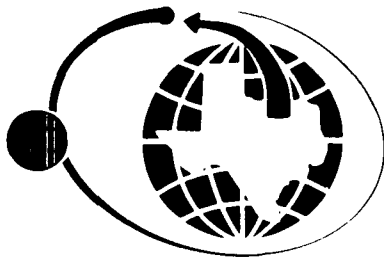
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	83.0 %

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-10

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-14

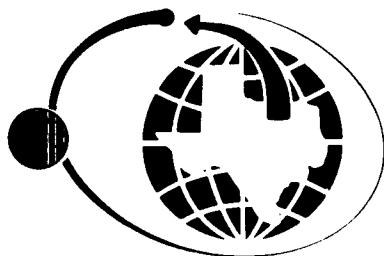
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT			RESULTS	
BTEX Analysis by EPA Method 8020					
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-10

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-14

Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT		RESULTS	
MTBE by EPA Method 8020				
Methyl Tertiary Butyl Ether	10.0	$\mu\text{g/Kg}$	<	10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013427



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-10  
REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL  
ID MARKS: OW1-14  
Proj:3519-010-335/Homco 135

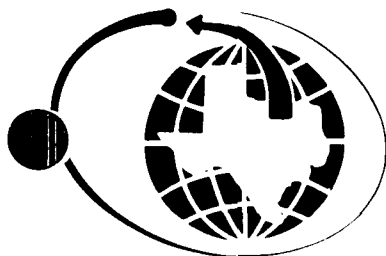
TEST REQUESTED	DETECTION LIMIT	RESULTS
TRPH by EPA Method 418.1		
Total Petroleum Hydrocarbon	10 mg/Kg	< 10 mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013428





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DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-10

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: OW1-14

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Solids

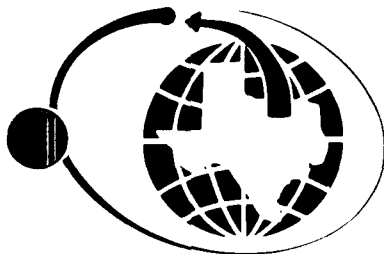
1.0 %

83.0 %

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*David R. Godwin tgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

ENR-35013429



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DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-11

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: LIQUID

ID MARKS: TB2

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

MTBE by EPA Method 602

Methyl Tertiary Butyl Ether

5.0

µg/L

<

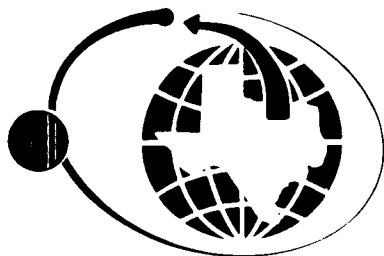
5.0

µg/L

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013430



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DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-12

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B5-4

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

MTBE by EPA Method 8020

Methyl Tertiary Butyl Ether

10.0

µg/Kg

<

10.0

µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013431



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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-12

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B5-4

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Solids

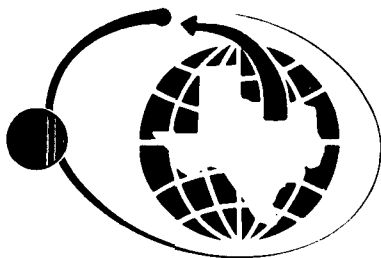
1.0 %

90.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013432



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DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-13

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B5-5

Proj:3519-010-335/Homco 135

TEST REQUESTED

DETECTION LIMIT

RESULTS

BTEX Analysis by EPA Method 8020

Benzene

2.0

µg/Kg

<

2.0

µg/Kg

Toluene

2.0

µg/Kg

<

2.0

µg/Kg

ethyl benzene

2.0

µg/Kg

<

2.0

µg/Kg

xylenes

2.0

µg/Kg

<

2.0

µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin* Kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013433



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-13  
REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

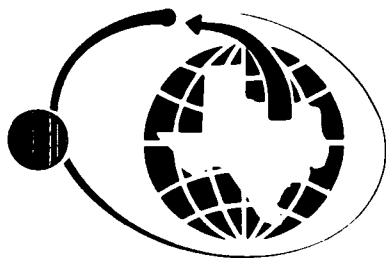
SAMPLE MATRIX: SOIL  
ID MARKS: B5-5  
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
MTBE by EPA Method 8020		
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin* Kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013434



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DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-13

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B5-5

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

TRPH by EPA Method 418.1

Total Petroleum Hydrocarbon

10

mg/Kg

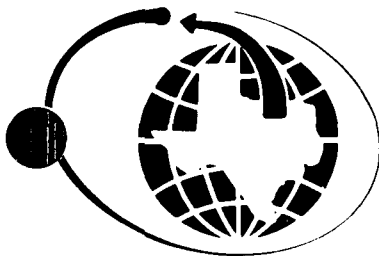
15

mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013435



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DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-13  
REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B5-5

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Solids

1.0 %

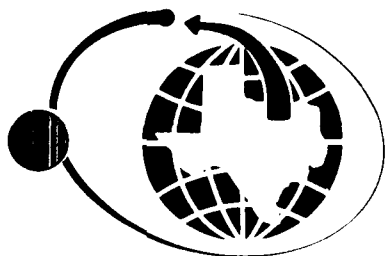
81.0 %

NDRC Laboratories, Inc.

*David R. Godwin* *kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013436





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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-14  
REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

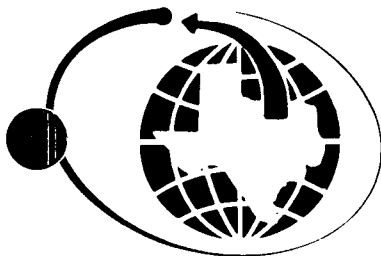
SAMPLE MATRIX: SOIL  
ID MARKS: B5-6  
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT			RESULTS	
BTEX Analysis by EPA Method 8020					
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

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*David R. Godwin* kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DALLAS

HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-14

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B5-6

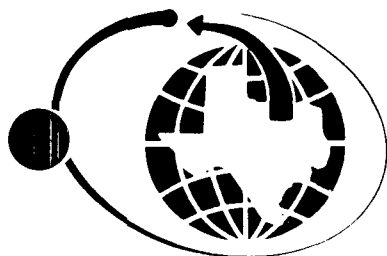
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
MTBE by EPA Method 8020		
Methyl Tertiary Butyl Ether	10.0 µg/Kg	< 10.0 µg/Kg

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-14  
REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

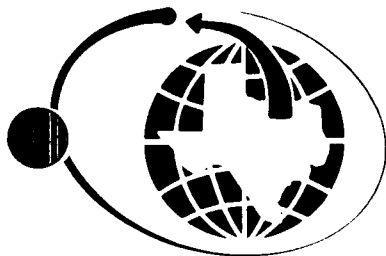
SAMPLE MATRIX: SOIL  
ID MARKS: B5-6  
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
TRPH by EPA Method 418.1		
Total Petroleum Hydrocarbon	10 mg/Kg	34 mg/Kg

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DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-14  
REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B5-6

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Solids

1.0 %

81.0 %

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David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-15

REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B6-3

Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
MTBE by EPA Method 8020		
Methyl Tertiary Butyl Ether	10.0 µg/Kg	< 10.0 µg/Kg

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David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 29-MAY-1991

REPORT NUMBER: H91-1428-15  
REPORT DATE: 5-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL  
ID MARKS: B6-3  
Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Solids

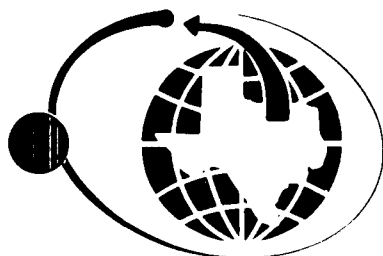
1.0 %

94.0 %

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DATE RECEIVED: 5/29/91

REPORT NUMBER: H91 1428:01-15

REPORT DATE: 6/5/91

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ATTENTION: Mr. Dave Dorrance

## LABORATORY ANALYSIS QUALITY CONTROL REPORT

ANALYSIS: MTBE  
Technician: KSG  
Date Sampled: 5/24-5/26/91  
Extraction Date: ---  
Date Analyzed: 5/31/91  
QC Date: 5/31/91  
QC Sample Number: 1428-13

Analysis Method: EPA 8020  
Extraction Method: ---  
RPD: 5%  
Average Spike Recovery: 108%  
Duplicate Recovery: 114%  
Method Blank: < 5  
Blank Spike Recovery: 111%

ANALYSIS: Benzene  
Technician: KSG  
Date Sampled: 5/24-5/26/91  
Extraction Date: ---  
Date Analyzed: 5/31/91  
QC Date: 5/31/91  
QC Sample Number: 1428-13

Analysis Method: EPA 8020  
Extraction Method: ---  
RPD: 7%  
Average Spike Recovery: 104%  
Duplicate Recovery: 112%  
Method Blank: < 2  
Blank Spike Recovery: 112%

ANALYSIS: Toluene  
Technician: KSG  
Date Sampled: 5/24-5/26/91  
Extraction Date: ---  
Date Analyzed: 5/31/91  
QC Date: 5/31/91  
QC Sample Number: 1428-13

Analysis Method: EPA 8020  
Extraction Method: ---  
RPD: 7%  
Average Spike Recovery: 104%  
Duplicate Recovery: 112%  
Method Blank: < 2  
Blank Spike Recovery: 108%

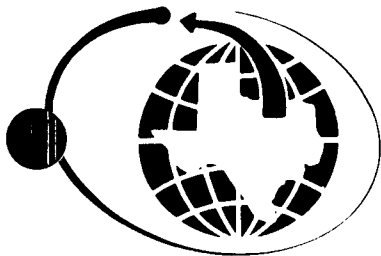
ANALYSIS: Ethyl-Benzene  
Technician: KSG  
Date Sampled: 5/24-5/26/91  
Extraction Date: ---  
Date Analyzed: 5/31/91  
QC Date: 5/31/91  
QC Sample Number: 1428-13

Analysis Method: EPA 8020  
Extraction Method: ---  
RPD: 7%  
Average Spike Recovery: 104%  
Duplicate Recovery: 112%  
Method Blank: < 2  
Blank Spike Recovery: 112%

ANALYSIS: Xylenes  
Technician: KSG  
Date Sampled: 5/24-5/26/91  
Extraction Date: ---  
Date Analyzed: 5/31/91  
QC Date: 5/31/91  
QC Sample Number: 1428-13

Analysis Method: EPA 8020  
Extraction Method: ---  
RPD: 8%  
Average Spike Recovery: 108%  
Duplicate Recovery: 117%  
Method Blank: < 2  
Blank Spike Recovery: 112%

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DATE RECEIVED: 5/29/91

REPORT NUMBER: H91 1428:01-15

REPORT DATE: 6/5/91

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ATTENTION: Mr. Dave Dorrance

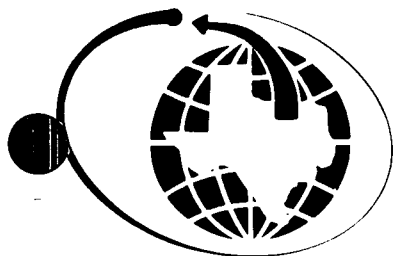
LABORATORY ANALYSIS  
QUALITY CONTROL REPORT

ANALYSIS: TPH  
Technician: MT  
Date Sampled: 5/24/91  
Extraction Date: 5/31/91  
Date Analyzed: 5/31/91  
QC Date: 5/31/91  
QC Sample Number: 1452-7

Analysis Method: EPA 418.1  
Extraction Method: 3550  
RPD: 15%  
Average Spike Recovery: 104%  
Duplicate Recovery: ---  
Method Blank: ---  
Blank Spike Recovery: ---

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-1

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : LIQUID  
ID MARKS : TB-1  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 24-MAY-1991  
ANALYSIS METHOD : EPA 602

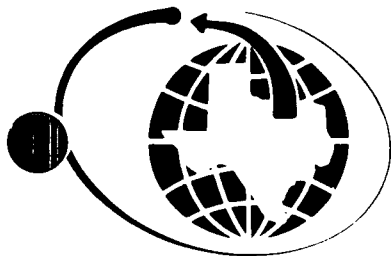
BTX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Benzene	1.0	µg/L	<	1.0	µg/L
Toluene	1.0	µg/L	<	1.0	µg/L
Ethyl benzene	1.0	µg/L	<	1.0	µg/L
Xylenes	1.0	µg/L		3.0	µg/L

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
Bromofluorobenzene(SS)	50.0	µg/L		54.0	µg/L

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*David R. Godwin Rgn*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-1

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : LIQUID

ID MARKS : TB-1

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 24-MAY-1991

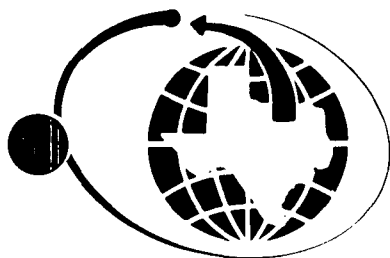
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	5.0 µg/L	< 5.0 µg/L

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David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-1

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

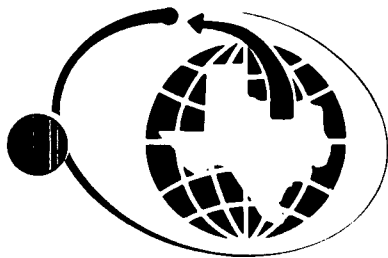
SAMPLE MATRIX : LIQUID  
ID MARKS : TB-1  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 24-MAY-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	1.0 mg/L	< 1.0 mg/L

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David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-2

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B1-2

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 21-MAY-1991

ANALYSIS METHOD : EPA 8020

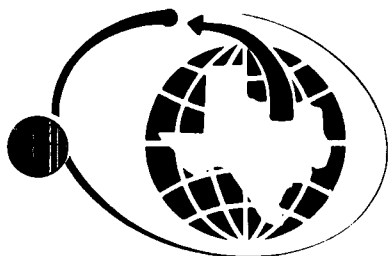
BTX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
Bromofluorobenzene(SS)	50.0	µg/Kg	45.0	µg/Kg	

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Chief Executive Officer

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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-2

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B1-2

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 21-MAY-1991

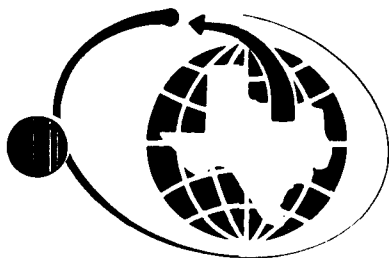
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-2

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

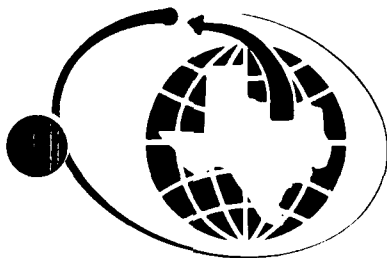
SAMPLE MATRIX : SOIL  
ID MARKS : B1-2  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 21-MAY-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	< 10 mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-2

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B1-2

: Proj:3519-010-335/Homco 135

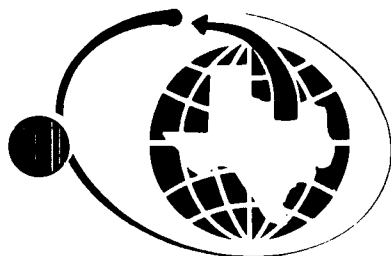
DATE SAMPLED : 21-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	91.0 %

NDRC Laboratories, Inc.

*David R. Godwin Rgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-3

REPORT DATE : 14-JUN-1991

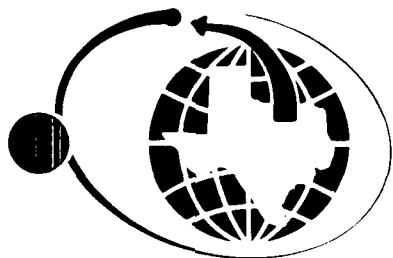
SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B1-7  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 21-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT			RESULTS	
Chloromethane	10.0	µg/Kg	<	10.0	µg/Kg
Bromomethane	10.0	µg/Kg	<	10.0	µg/Kg
Vinyl chloride	10.0	µg/Kg	<	10.0	µg/Kg
Chloroethane	10.0	µg/Kg	<	10.0	µg/Kg
Methylene chloride	5.0	µg/Kg	<	5.0	µg/Kg
Acetone	100	µg/Kg	<	100	µg/Kg
Carbon disulfide	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chloroform	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
2-Butanone	100	µg/Kg	<	100	µg/Kg
1,1,1-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Carbon tetrachloride	5.0	µg/Kg	<	5.0	µg/Kg

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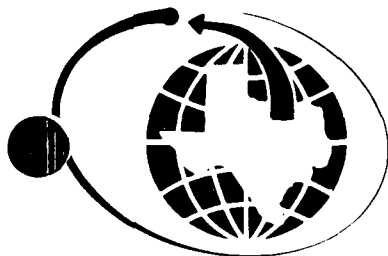
HOUSTON

REPORT NUMBER : H91-1405-3  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/Kg	<	50.0	µg/Kg
Bromodichloromethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloropropane	5.0	µg/Kg	<	5.0	µg/Kg
cis-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Trichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chlorodibromomethane	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Benzene	5.0	µg/Kg	<	5.0	µg/Kg
trans-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Bromoform	5.0	µg/Kg	<	5.0	µg/Kg
2-Chloroethylvinyl ether	10.0	µg/Kg	<	10.0	µg/Kg
4-Methyl-2-pentanone	50.0	µg/Kg	<	50.0	µg/Kg
2-Hexanone	50.0	µg/Kg	<	50.0	µg/Kg
Tetrachloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Toluene	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Chlorobenzene	5.0	µg/kg	<	5.0	µg/kg
Ethylbenzene	5.0	µg/Kg	<	5.0	µg/Kg
Styrene	5.0	µg/Kg	<	5.0	µg/Kg
Xylenes	5.0	µg/Kg	<	5.0	µg/Kg

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REPORT NUMBER : H91-1405-3  
ANALYSIS METHOD : EPA 8240

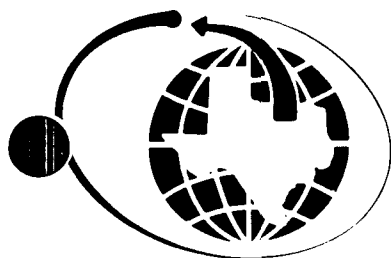
PAGE 3

QUALITY CONTROL DATA			
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0	µg/Kg	110 %
Toluene-d8 (SS)	50.0	µg/Kg	103 %
Bromofluorobenzene (SS)	50.0	µg/Kg	98.5 %

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DALLAS

HOUSTON

DATE RECEIVED: 28-MAY-1991

REPORT NUMBER: H91-1405-3  
REPORT DATE: 14-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL  
PURCHASE ORDER:  
ID MARKS: B1-7  
Proj:3519-010-335/Homco 135

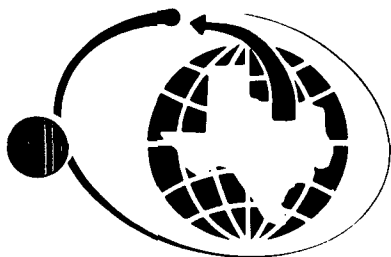
## TENTATIVELY IDENTIFIED COMPOUNDS

COMPOUND	RETENTION TIME	FRACTION	RESULTS
Tentatively Identified Compounds			
No VOA compounds detected above		VOA	10 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-3

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B1-7

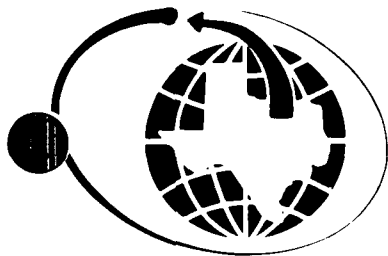
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 21-MAY-1991

ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Phenol	660	µg/Kg	<	660	µg/Kg
2-Chlorophenol	660	µg/Kg	<	660	µg/Kg
2-Methylphenol	660	µg/Kg	<	660	µg/Kg
4-Methylphenol	660	µg/Kg	<	660	µg/Kg
2-Nitrophenol	660	µg/Kg	<	660	µg/Kg
2,4-Dimethylphenol	660	µg/Kg	<	660	µg/Kg
Benzoic acid	3300	µg/Kg	<	3300	µg/Kg
2,4-Dichlorophenol	660	µg/Kg	<	660	µg/Kg
4-Chloro-3-methylphenol	1300	µg/Kg	<	1300	µg/Kg
2,4,6-Trichlorophenol	660	µg/Kg	<	660	µg/Kg
2,4,5-Trichlorophenol	3300	µg/Kg	<	3300	µg/Kg
2,4-Dinitrophenol	3300	µg/Kg	<	3300	µg/Kg
4-Nitrophenol	3300	µg/Kg	<	3300	µg/Kg
4,6-Dinitro-2-methylphenol	3300	µg/Kg	<	3300	µg/Kg
Pentachlorophenol	3300	µg/Kg	<	3300	µg/Kg

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REPORT NUMBER : H91-1405-3  
ANALYSIS METHOD : EPA 8270

PAGE 2

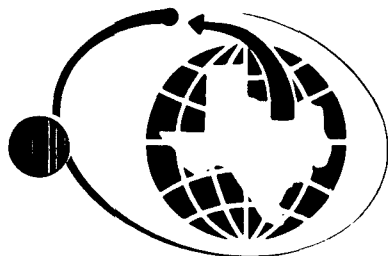
ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	44.3 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	42.9 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	47.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-3

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B1-7

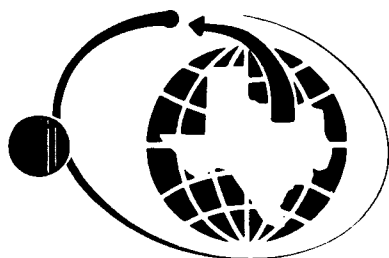
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 21-MAY-1991

ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Bis(2-chloroethyl)ether	660	µg/Kg	<	660	µg/Kg
1,3-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
1,4-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Benzyl alcohol	1300	µg/Kg	<	1300	µg/Kg
1,2-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg
Bis(2-Chloroisopropyl)ether	660	µg/Kg	<	660	µg/Kg
N-Nitroso-Di-N-propylamine	660	µg/Kg	<	660	µg/Kg
Hexachloroethane	660	µg/Kg	<	660	µg/Kg
Nitrobenzene	660	µg/Kg	<	660	µg/Kg
Isophorone	660	µg/Kg	<	660	µg/Kg
Bis(2-chloroethoxy)methane	660	µg/Kg	<	660	µg/Kg
1,2,4-Trichlorobenzene	660	µg/Kg	<	660	µg/Kg
Naphthalene	660	µg/Kg	<	660	µg/Kg
4-Chloroaniline	1300	µg/Kg	<	1300	µg/Kg
Hexachlorobutadiene	660	µg/Kg	<	660	µg/Kg

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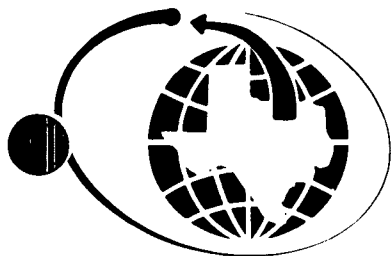
HOUSTON

REPORT NUMBER : H91-1405-3  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
2-Methylnaphthalene	660	µg/Kg	<	660	µg/Kg	
Hexachlorocyclopentadiene	660	µg/Kg	<	660	µg/Kg	
2-Chloronaphthalene	660	µg/Kg	<	660	µg/Kg	
2-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Dimethylphthalate	660	µg/Kg	<	660	µg/Kg	
Acenaphthylene	660	µg/Kg	<	660	µg/Kg	
2,6-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
3-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Acenaphthene	660	µg/Kg	<	660	µg/Kg	
Dibenzofuran	660	µg/Kg	<	660	µg/Kg	
2,4-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
Diethylphthalate	660	µg/Kg	<	660	µg/Kg	
4-Chlorophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Fluorene	660	µg/Kg	<	660	µg/Kg	
4-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
N-Nitrosodiphenylamine	660	µg/Kg	<	660	µg/Kg	
4-Bromophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Hexachlorobenzene	660	µg/Kg	<	660	µg/Kg	
Phenanthrene	660	µg/Kg	<	660	µg/Kg	
Anthracene	660	µg/Kg	<	660	µg/Kg	
Di-n-butylphthalate	660	µg/Kg	<	660	µg/Kg	

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HOUSTON

REPORT NUMBER : H91-1405-3  
ANALYSIS METHOD : EPA 8270

PAGE 3

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Fluoranthene	660	µg/Kg	<	660	µg/Kg	
Pyrene	660	µg/Kg	<	660	µg/Kg	
Butyl benzyl phthalate	660	µg/Kg	<	660	µg/Kg	
3,3'-Dichlorobenzidine	1300	µg/Kg	<	1300	µg/Kg	
Benzo(a)anthracene	660	µg/Kg	<	660	µg/Kg	
Chrysene	660	µg/Kg	<	660	µg/Kg	
Bis(2-ethylhexyl)phthalate	660	µg/Kg	<	660	µg/Kg	
Di-n-octylphthalate	660	µg/Kg	<	660	µg/Kg	
Benzo(b)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(k)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(a)pyrene	660	µg/Kg	<	660	µg/Kg	
Indeno(1,2,3-cd)pyrene	660	µg/Kg	<	660	µg/Kg	
Dibenzo(a,h)anthracene	660	µg/Kg	<	660	µg/Kg	
Benzo(g,h,i)perylene	660	µg/Kg	<	660	µg/Kg	

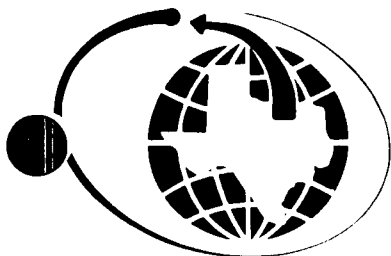
QUALITY CONTROL DATA						
SURROGATE COMPOUND	SPIKE LEVEL			SPIKE RECOVERED		
Nitrobenzene-d5 (SS)	50.0	µg/Kg		36.8	%	
2-Fluorobiphenyl (SS)	50.0	µg/Kg		43.8	%	
Terphenyl-d14 (SS)	50.0	µg/Kg		61.1	%	

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013461





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HOUSTON

DATE RECEIVED: 28-MAY-1991

REPORT NUMBER: H91-1405-3  
REPORT DATE: 14-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL  
PURCHASE ORDER:  
ID MARKS: B1-7  
Proj:3519-010-335/Homco 135

---

## TENTATIVELY IDENTIFIED COMPOUNDS

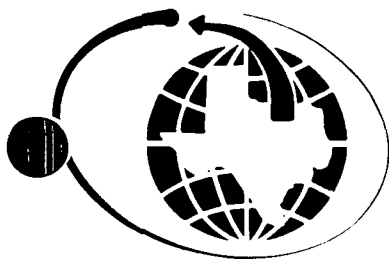
---

COMPOUND	RETENTION TIME	FRACTION	RESULTS
Tentatively Identified Compounds			
No ABN compounds detected above		ABN	660 µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin* kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-3

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B1-7

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 21-MAY-1991

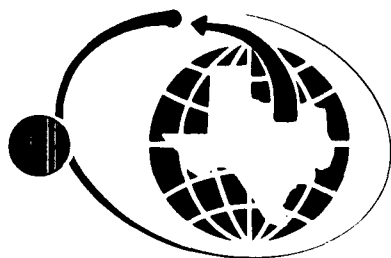
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl tertiary butyl ether	5.0 µg/Kg	< 5.0 µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B1-7

: Proj:3519-010-335/Homco 135

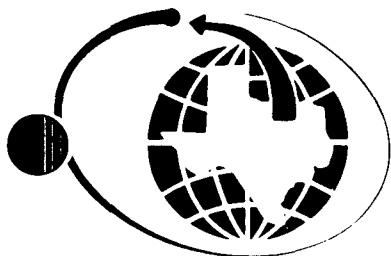
DATE SAMPLED : 21-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	88.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-4

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B1-8

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 22-MAY-1991

ANALYSIS METHOD : EPA 8020

BTX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
Bromofluorobenzene(SS)	50.0	µg/Kg		53.0	µg/Kg

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*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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REPORT NUMBER : H91-1405-4

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B1-8

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 22-MAY-1991

ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER

TEST REQUESTED

DETECTION LIMIT

RESULTS

Methyl Tertiary Butyl Ether

10.0  $\mu\text{g/Kg}$

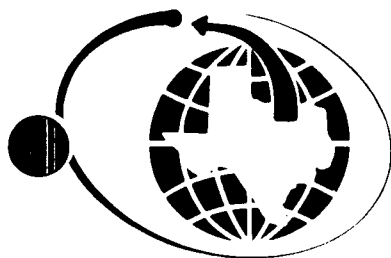
<

10.0  $\mu\text{g/Kg}$

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*David R. Godwin kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B1-8

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 22-MAY-1991

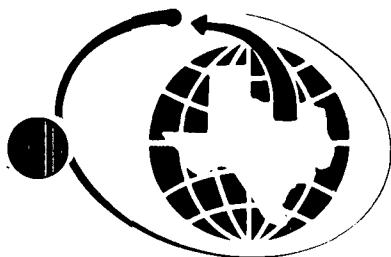
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	35 mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin Kgo*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B1-8

: Proj:3519-010-335/Homco 135

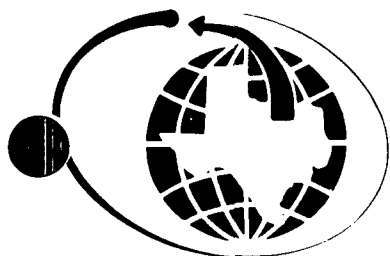
DATE SAMPLED : 22-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	87.0 %

NDRC Laboratories, Inc.

*David R. Godwin* *xgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-5

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B2-3

: Proj:3519-010-335/Homco 135

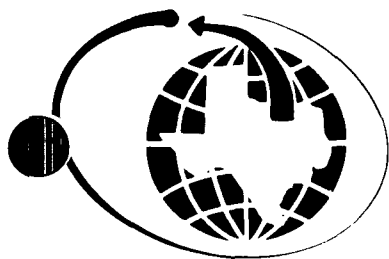
DATE SAMPLED : 23-MAY-1991

ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/Kg	<	10.0	µg/Kg
Bromomethane	10.0	µg/Kg	<	10.0	µg/Kg
Vinyl chloride	10.0	µg/Kg	<	10.0	µg/Kg
Chloroethane	10.0	µg/Kg	<	10.0	µg/Kg
Methylene chloride	5.0	µg/Kg	<	5.0	µg/Kg
Acetone	100	µg/Kg	<	100	µg/Kg
Carbon disulfide	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chloroform	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
2-Butanone	100	µg/Kg	<	100	µg/Kg
1,1,1-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Carbon tetrachloride	5.0	µg/Kg	<	5.0	µg/Kg

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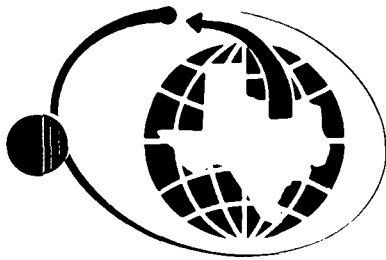
HOUSTON

REPORT NUMBER : H91-1405-5  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/Kg	<	50.0	µg/Kg
Bromodichloromethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloropropane	5.0	µg/Kg	<	5.0	µg/Kg
cis-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Trichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chlorodibromomethane	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Benzene	5.0	µg/Kg	<	5.0	µg/Kg
trans-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Bromoform	5.0	µg/Kg	<	5.0	µg/Kg
2-Chloroethylvinyl ether	10.0	µg/Kg	<	10.0	µg/Kg
4-Methyl-2-pentanone	50.0	µg/Kg	<	50.0	µg/Kg
2-Hexanone	50.0	µg/Kg	<	50.0	µg/Kg
Tetrachloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Toluene	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Chlorobenzene	5.0	µg/kg	<	5.0	µg/kg
Ethylbenzene	5.0	µg/Kg	<	5.0	µg/Kg
Styrene	5.0	µg/Kg	<	5.0	µg/Kg
Xylenes	5.0	µg/Kg	<	5.0	µg/Kg

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HOUSTON

REPORT NUMBER : H91-1405-5  
ANALYSIS METHOD : EPA 8240

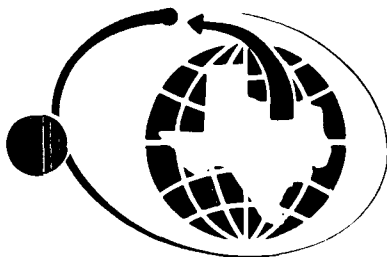
PAGE 3

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 $\mu\text{g/Kg}$	107 %
Toluene-d8 (SS)	50.0 $\mu\text{g/Kg}$	103 %
Bromofluorobenzene (SS)	50.0 $\mu\text{g/Kg}$	101 %

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 28-MAY-1991

REPORT NUMBER: H91-1405-5  
REPORT DATE: 14-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

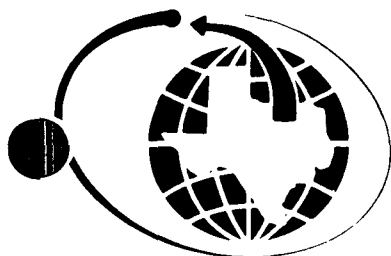
SAMPLE MATRIX: SOIL  
PURCHASE ORDER:  
ID MARKS: B2-3  
Proj: 3519-010-335/Homco 135

## TENTATIVELY IDENTIFIED COMPOUNDS

COMPOUND	RETENTION TIME	FRACTION	RESULTS
Tentatively Identified Compounds			
No VOA compounds detected above		VOA	10 $\mu\text{g/Kg}$

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-5

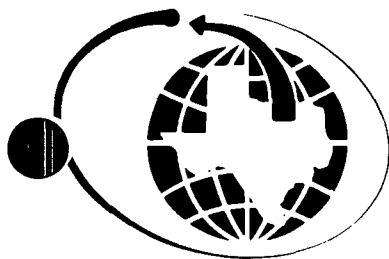
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B2-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Phenol	660	µg/Kg	<	660	µg/Kg	
2-Chlorophenol	660	µg/Kg	<	660	µg/Kg	
2-Methylphenol	660	µg/Kg	<	660	µg/Kg	
4-Methylphenol	660	µg/Kg	<	660	µg/Kg	
2-Nitrophenol	660	µg/Kg	<	660	µg/Kg	
2,4-Dimethylphenol	660	µg/Kg	<	660	µg/Kg	
Benzoic acid	3300	µg/Kg	<	3300	µg/Kg	
2,4-Dichlorophenol	660	µg/Kg	<	660	µg/Kg	
4-Chloro-3-methylphenol	1300	µg/Kg	<	1300	µg/Kg	
2,4,6-Trichlorophenol	660	µg/Kg	<	660	µg/Kg	
2,4,5-Trichlorophenol	3300	µg/Kg	<	3300	µg/Kg	
2,4-Dinitrophenol	3300	µg/Kg	<	3300	µg/Kg	
4-Nitrophenol	3300	µg/Kg	<	3300	µg/Kg	
4,6-Dinitro-2-methylphenol	3300	µg/Kg	<	3300	µg/Kg	
Pentachlorophenol	3300	µg/Kg	<	3300	µg/Kg	

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REPORT NUMBER : H91-1405-5  
ANALYSIS METHOD : EPA 8270

PAGE 2

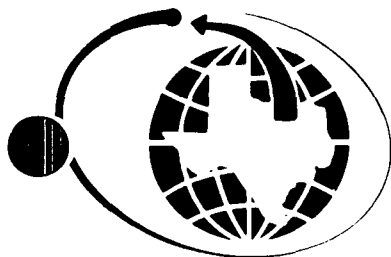
ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 µg/Kg	58.7 %
2-Fluorophenol (SS)	100 µg/Kg	57.1 %
2,4,6-Tribromophenol (SS)	100 µg/Kg	61.3 %

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*David R. Godwin* Kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-5

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B2-3

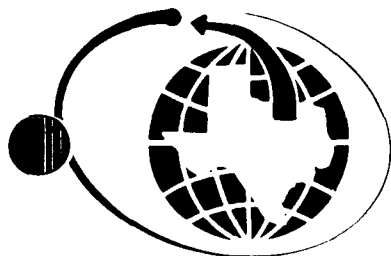
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Bis(2-chloroethyl)ether	660	µg/Kg	<	660	µg/Kg	
1,3-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
1,4-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Benzyl alcohol	1300	µg/Kg	<	1300	µg/Kg	
1,2-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Bis(2-Chloroisopropyl)ether	660	µg/Kg	<	660	µg/Kg	
N-Nitroso-Di-N-propylamine	660	µg/Kg	<	660	µg/Kg	
Hexachloroethane	660	µg/Kg	<	660	µg/Kg	
Nitrobenzene	660	µg/Kg	<	660	µg/Kg	
Isophorone	660	µg/Kg	<	660	µg/Kg	
Bis(2-chloroethoxy)methane	660	µg/Kg	<	660	µg/Kg	
1,2,4-Trichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Naphthalene	660	µg/Kg	<	660	µg/Kg	
4-Chloroaniline	1300	µg/Kg	<	1300	µg/Kg	
Hexachlorobutadiene	660	µg/Kg	<	660	µg/Kg	

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REPORT NUMBER : H91-1405-5  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
2-Methylnaphthalene	660	µg/Kg	<	660	µg/Kg	
Hexachlorocyclopentadiene	660	µg/Kg	<	660	µg/Kg	
2-Chloronaphthalene	660	µg/Kg	<	660	µg/Kg	
2-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Dimethylphthalate	660	µg/Kg	<	660	µg/Kg	
Acenaphthylene	660	µg/Kg	<	660	µg/Kg	
2,6-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
3-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Acenaphthene	660	µg/Kg	<	660	µg/Kg	
Dibenzofuran	660	µg/Kg	<	660	µg/Kg	
2,4-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
Diethylphthalate	660	µg/Kg	<	660	µg/Kg	
4-Chlorophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Fluorene	660	µg/Kg	<	660	µg/Kg	
4-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
N-Nitrosodiphenylamine	660	µg/Kg	<	660	µg/Kg	
4-Bromophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Hexachlorobenzene	660	µg/Kg	<	660	µg/Kg	
Phenanthrene	660	µg/Kg	<	660	µg/Kg	
Anthracene	660	µg/Kg	<	660	µg/Kg	
Di-n-butylphthalate	660	µg/Kg	<	660	µg/Kg	

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REPORT NUMBER : H91-1405-5  
ANALYSIS METHOD : EPA 8270

PAGE 3

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Fluoranthene	660	µg/Kg	<	660	µg/Kg	
Pyrene	660	µg/Kg	<	660	µg/Kg	
Butyl benzyl phthalate	660	µg/Kg	<	660	µg/Kg	
3,3'-Dichlorobenzidine	1300	µg/Kg	<	1300	µg/Kg	
Benzo(a)anthracene	660	µg/Kg	<	660	µg/Kg	
Chrysene	660	µg/Kg	<	660	µg/Kg	
Bis(2-ethylhexyl)phthalate	660	µg/Kg	<	660	µg/Kg	
Di-n-octylphthalate	660	µg/Kg	<	660	µg/Kg	
Benzo(b)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(k)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(a)pyrene	660	µg/Kg	<	660	µg/Kg	
Indeno(1,2,3-cd)pyrene	660	µg/Kg	<	660	µg/Kg	
Dibenzo(a,h)anthracene	660	µg/Kg	<	660	µg/Kg	
Benzo(g,h,i)perylene	660	µg/Kg	<	660	µg/Kg	

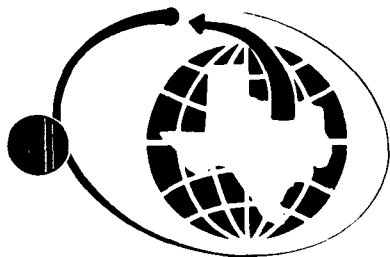
QUALITY CONTROL DATA						
SURROGATE COMPOUND	SPIKE LEVEL			SPIKE RECOVERED		
Nitrobenzene-d5 (SS)	50.0	µg/Kg		38.7	%	
2-Fluorobiphenyl (SS)	50.0	µg/Kg		52.0	%	
Terphenyl-d14 (SS)	50.0	µg/Kg		64.7	%	

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 28-MAY-1991

REPORT NUMBER: H91-1405-5

REPORT DATE: 14-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

PURCHASE ORDER:

ID MARKS: B2-3

Proj:3519-010-335/Homco 135

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## TENTATIVELY IDENTIFIED COMPOUNDS

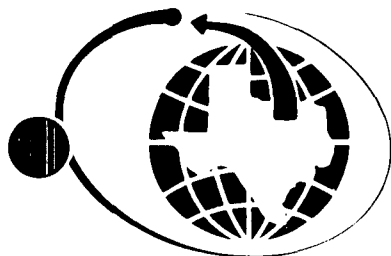
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COMPOUND	RETENTION TIME	FRACTION	RESULTS
Tentatively Identified Compounds			
No ABN compounds detected above		ABN	660 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin kgw*  
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Chief Executive Officer

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REPORT DATE : 14-JUN-1991

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ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B2-3

: Proj:3519-010-335/Homco 135

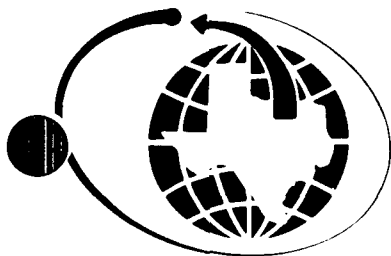
DATE SAMPLED : 23-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	88.0 %

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ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B2-3

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

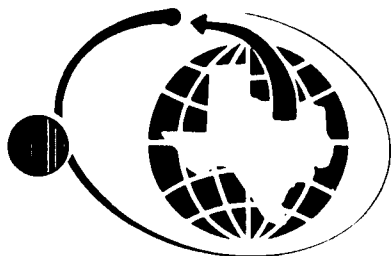
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl tertiary butyl ether	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$

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David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-6

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B2-5

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

ANALYSIS METHOD : EPA 8020

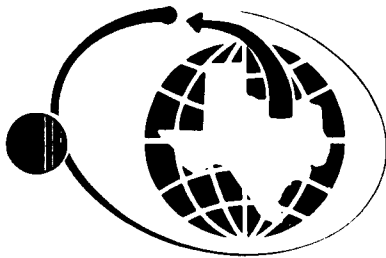
BTEX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
Bromofluorobenzene(SS)	50.0	µg/Kg		49.0	µg/Kg

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Chief Executive Officer

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ADDRESS : 3000 Richmond Avenue  
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ATTENTION : Mr. Dave Dorrance

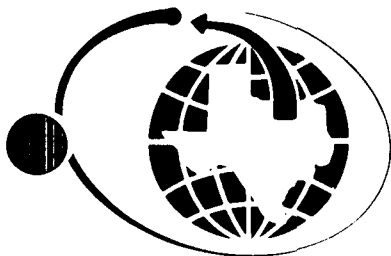
SAMPLE MATRIX : SOIL  
ID MARKS : B2-5  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

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REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

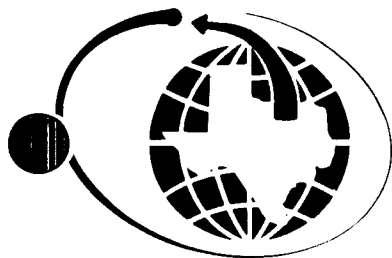
SAMPLE MATRIX : SOIL  
ID MARKS : B2-5  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	11 mg/Kg

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*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B2-5

: Proj:3519-010-335/Homco 135

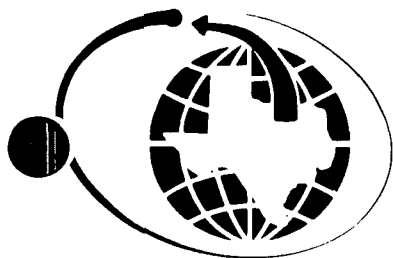
DATE SAMPLED : 23-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	84.0 %

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*David R. Godwin*  
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Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-7

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B2-6  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 8020

BTEX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT			RESULTS	
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

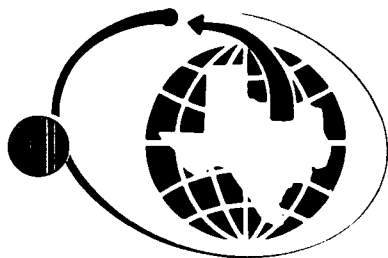
QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL			SPIKE RECOVERED	
Bromofluorobenzene(SS)	50.0	µg/Kg		49.0	µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
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Chief Executive Officer

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REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

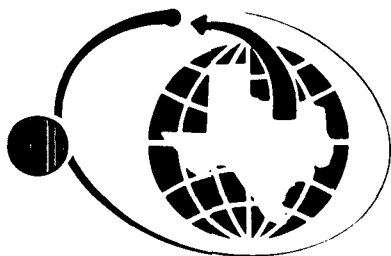
SAMPLE MATRIX : SOIL  
ID MARKS : B2-6  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 µg/Kg	< 10.0 µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013486



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DALLAS

HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-7

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B2-6

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

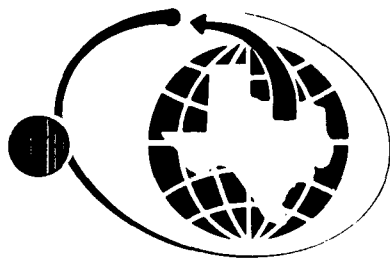
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	35 mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin* xgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DALLAS

HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-7

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

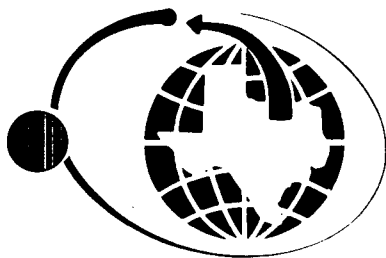
SAMPLE MATRIX : SOIL  
ID MARKS : B2-6  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	85.0 %

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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-8

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-5

: Proj:3519-010-335/Homco 135

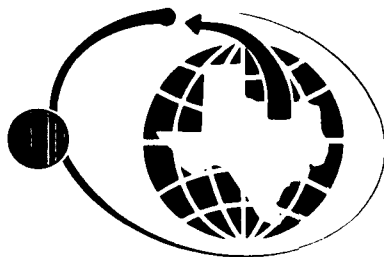
DATE SAMPLED : 23-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	90.0 %

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ATTENTION : Mr. Dave Dorrance

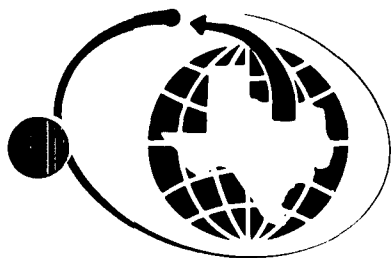
SAMPLE MATRIX : SOIL  
ID MARKS : OW2-5  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl tertiary butyl ether	250 $\mu\text{g/Kg}$	< 250 $\mu\text{g/Kg}$

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REPORT NUMBER : H91-1405-8  
ANALYSIS METHOD : EPA 8270

PAGE 2

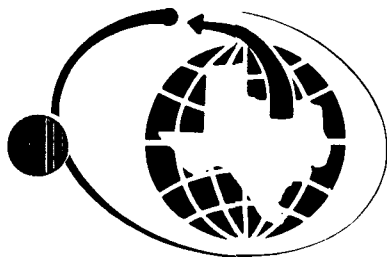
ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	35.4 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	36.5 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	40.2 %

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REPORT NUMBER : H91-1405-8  
ANALYSIS METHOD : EPA 8240

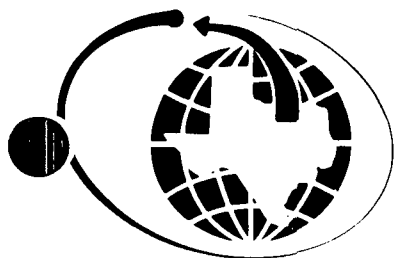
PAGE 3

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
1,2-Dichloroethane-d4 (SS)	50.0	µg/Kg	91.1	%
Toluene-d8 (SS)	50.0	µg/Kg	106	%
Bromofluorobenzene (SS)	50.0	µg/Kg	105	%

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DATE RECEIVED: 28-MAY-1991

REPORT NUMBER: H91-1405-8  
REPORT DATE: 14-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL  
PURCHASE ORDER:  
ID MARKS: OW2-5  
Proj: 3519-010-335/Homco 135

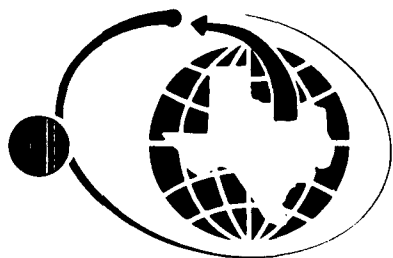
## TENTATIVELY IDENTIFIED COMPOUNDS

COMPOUND	RETENTION TIME	FRACTION	RESULTS
Tentatively Identified Compounds			
No ABN compounds detected above		ABN	660 $\mu\text{g/Kg}$

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Chief Executive Officer  
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SAMPLE MATRIX : SOIL

ID MARKS : OW2-5

: Proj:3519-010-335/Homco 135

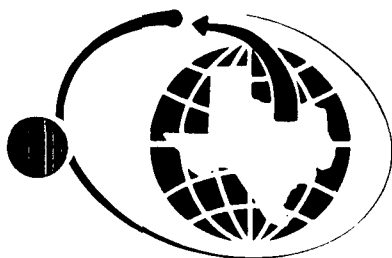
DATE SAMPLED : 23-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS				
COMPOUND	RETENTION TIME	FRACTION	RESULT	
Unidentified alkane	17.29	VOA	2600	µg/Kg
Unidentified cyclic hydrocarbon	17.79	VOA	3700	µg/Kg
Decane	18.68	VOA	6500	µg/Kg
Unidentified alkene	19.19	VOA	7900	µg/Kg
Dimethylnonane	19.65	VOA	8000	µg/Kg
Trimethyloctane	20.23	VOA	14000	µg/Kg
Unidentified alkene	20.89	VOA	3000	µg/Kg
Undecane	21.59	VOA	10000	µg/Kg
Methyl-methylethylbenzene	22.79	VOA	1300	µg/Kg
Unidentified cyclic hydrocarbon	23.14	VOA	3700	µg/Kg
Decahydro-methylnaphthalene	23.41	VOA	1200	µg/Kg
Unidentified alkane	24.30	VOA	1400	µg/Kg
Ethyl-dimethylbenzene	24.88	VOA	1000	µg/Kg

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*David R. Godwin kgw*  
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REPORT NUMBER : H91-1405-8

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-5

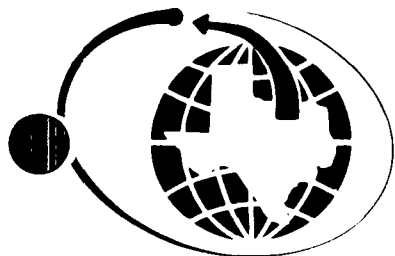
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	500	µg/Kg	<	500	µg/Kg
Bromomethane	500	µg/Kg	<	500	µg/Kg
Vinyl chloride	500	µg/Kg	<	500	µg/Kg
Chloroethane	500	µg/Kg	<	500	µg/Kg
Methylene chloride	250	µg/Kg		2780	µg/Kg
Acetone	5000	µg/Kg	<	5000	µg/Kg
Carbon disulfide	250	µg/Kg	<	250	µg/Kg
1,1-Dichloroethene	250	µg/Kg	<	250	µg/Kg
1,1-Dichloroethane	250	µg/Kg	<	250	µg/Kg
1,2-Dichloroethene	250	µg/Kg	<	250	µg/Kg
Chloroform	250	µg/Kg	<	250	µg/Kg
1,2-Dichloroethane	250	µg/Kg	<	250	µg/Kg
2-Butanone	5000	µg/Kg	<	5000	µg/Kg
1,1,1-Trichloroethane	250	µg/Kg	<	250	µg/Kg
Carbon tetrachloride	250	µg/Kg	<	250	µg/Kg

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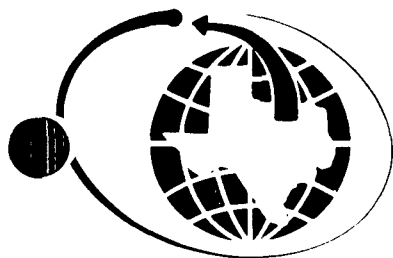
HOUSTON

REPORT NUMBER : H91-1405-8  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Vinyl acetate	2500	µg/Kg	<	2500	µg/Kg	
Bromodichloromethane	250	µg/Kg	<	250	µg/Kg	
1,2-Dichloropropane	250	µg/Kg	<	250	µg/Kg	
cis-1,3-Dichloropropene	250	µg/Kg	<	250	µg/Kg	
Trichloroethene	250	µg/Kg	<	250	µg/Kg	
Chlorodibromomethane	250	µg/Kg	<	250	µg/Kg	
1,1,2-Trichloroethane	250	µg/Kg	<	250	µg/Kg	
Benzene	250	µg/Kg	<	250	µg/Kg	
trans-1,3-Dichloropropene	250	µg/Kg	<	250	µg/Kg	
Bromoform	250	µg/Kg	<	250	µg/Kg	
2-Chloroethylvinyl ether	500	µg/Kg	<	500	µg/Kg	
4-Methyl-2-pentanone	2500	µg/Kg	<	2500	µg/Kg	
2-Hexanone	2500	µg/Kg	<	2500	µg/Kg	
Tetrachloroethene	250	µg/Kg	<	250	µg/Kg	
Toluene	250	µg/Kg	<	250	µg/Kg	
1,1,2,2-Tetrachloroethane	250	µg/Kg	<	250	µg/Kg	
Chlorobenzene	250	µg/kg	<	250	µg/kg	
Ethylbenzene	250	µg/Kg	<	250	µg/Kg	
Styrene	250	µg/Kg	<	250	µg/Kg	
Xylenes	250	µg/Kg	<	250	µg/Kg	

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-8

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-5

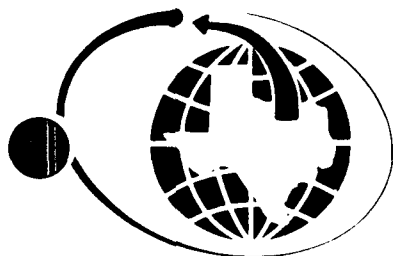
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT		RESULTS			
Phenol	660	µg/Kg	<	660	µg/Kg	
2-Chlorophenol	660	µg/Kg	<	660	µg/Kg	
2-Methylphenol	660	µg/Kg	<	660	µg/Kg	
4-Methylphenol	660	µg/Kg	<	660	µg/Kg	
2-Nitrophenol	660	µg/Kg	<	660	µg/Kg	
2,4-Dimethylphenol	660	µg/Kg	<	660	µg/Kg	
Benzoic acid	3300	µg/Kg	<	3300	µg/Kg	
2,4-Dichlorophenol	660	µg/Kg	<	660	µg/Kg	
4-Chloro-3-methylphenol	1300	µg/Kg	<	1300	µg/Kg	
2,4,6-Trichlorophenol	660	µg/Kg	<	660	µg/Kg	
2,4,5-Trichlorophenol	3300	µg/Kg	<	3300	µg/Kg	
2,4-Dinitrophenol	3300	µg/Kg	<	3300	µg/Kg	
4-Nitrophenol	3300	µg/Kg	<	3300	µg/Kg	
4,6-Dinitro-2-methylphenol	3300	µg/Kg	<	3300	µg/Kg	
Pentachlorophenol	3300	µg/Kg	<	3300	µg/Kg	

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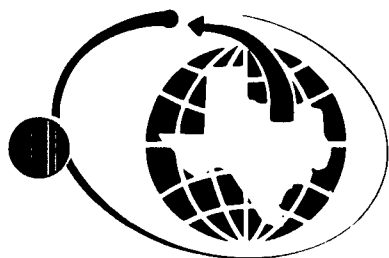
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT		RESULTS			
Bis(2-chloroethyl)ether	660	µg/Kg	<	660	µg/Kg	
1,3-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
1,4-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Benzyl alcohol	1300	µg/Kg	<	1300	µg/Kg	
1,2-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Bis(2-Chloroisopropyl)ether	660	µg/Kg	<	660	µg/Kg	
N-Nitroso-Di-N-propylamine	660	µg/Kg	<	660	µg/Kg	
Hexachloroethane	660	µg/Kg	<	660	µg/Kg	
Nitrobenzene	660	µg/Kg	<	660	µg/Kg	
Isophorone	660	µg/Kg	<	660	µg/Kg	
Bis(2-chloroethoxy)methane	660	µg/Kg	<	660	µg/Kg	
1,2,4-Trichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Naphthalene	660	µg/Kg	<	660	µg/Kg	
4-Chloroaniline	1300	µg/Kg	<	1300	µg/Kg	
Hexachlorobutadiene	660	µg/Kg	<	660	µg/Kg	

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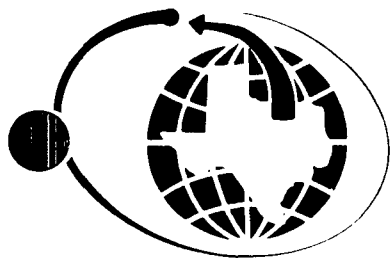
HOUSTON

REPORT NUMBER : H91-1405-8  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
2-Methylnaphthalene	660	µg/Kg	<	660	µg/Kg	
Hexachlorocyclopentadiene	660	µg/Kg	<	660	µg/Kg	
2-Chloronaphthalene	660	µg/Kg	<	660	µg/Kg	
2-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Dimethylphthalate	660	µg/Kg	<	660	µg/Kg	
Acenaphthylene	660	µg/Kg	<	660	µg/Kg	
2,6-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
3-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Acenaphthene	660	µg/Kg	<	660	µg/Kg	
Dibenzofuran	660	µg/Kg	<	660	µg/Kg	
2,4-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
Diethylphthalate	660	µg/Kg	<	660	µg/Kg	
4-Chlorophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Fluorene	660	µg/Kg	<	660	µg/Kg	
4-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
N-Nitrosodiphenylamine	660	µg/Kg	<	660	µg/Kg	
4-Bromophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Hexachlorobenzene	660	µg/Kg	<	660	µg/Kg	
Phenanthrene	660	µg/Kg	<	660	µg/Kg	
Anthracene	660	µg/Kg	<	660	µg/Kg	
Di-n-butylphthalate	660	µg/Kg	<	660	µg/Kg	

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REPORT NUMBER : H91-1405-8  
ANALYSIS METHOD : EPA 8270

PAGE 3

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT		RESULTS			
Fluoranthene	660	µg/Kg	<	660	µg/Kg	
Pyrene	660	µg/Kg	<	660	µg/Kg	
Butyl benzyl phthalate	660	µg/Kg	<	660	µg/Kg	
3,3'-Dichlorobenzidine	1300	µg/Kg	<	1300	µg/Kg	
Benzo(a)anthracene	660	µg/Kg	<	660	µg/Kg	
Chrysene	660	µg/Kg	<	660	µg/Kg	
Bis(2-ethylhexyl)phthalate	660	µg/Kg	<	660	µg/Kg	
Di-n-octylphthalate	660	µg/Kg	<	660	µg/Kg	
Benzo(b)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(k)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(a)pyrene	660	µg/Kg	<	660	µg/Kg	
Indeno(1,2,3-cd)pyrene	660	µg/Kg	<	660	µg/Kg	
Dibenzo(a,h)anthracene	660	µg/Kg	<	660	µg/Kg	
Benzo(g,h,i)perylene	660	µg/Kg	<	660	µg/Kg	

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
Nitrobenzene-d5 (SS)	50.0	µg/Kg	30.5	%
2-Fluorobiphenyl (SS)	50.0	µg/Kg	34.5	%
Terphenyl-d14 (SS)	50.0	µg/Kg	45.8	%

NDRC Laboratories, Inc.

*David R. Godwin* kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-9

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-8

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

ANALYSIS METHOD : EPA 8020

BTX ANALYSIS					
TEST REQUESTED		DETECTION LIMIT		RESULTS	
Benzene		2.0	µg/Kg	<	2.0 µg/Kg
Toluene		2.0	µg/Kg	<	2.0 µg/Kg
Ethyl benzene		2.0	µg/Kg	<	2.0 µg/Kg
Xylenes		2.0	µg/Kg	<	2.0 µg/Kg

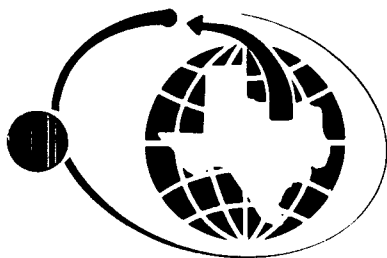
QUALITY CONTROL DATA					
SURROGATE COMPOUND		SPIKE LEVEL		SPIKE RECOVERED	
Bromofluorobenzene(SS)		50.0	µg/Kg	56.0	µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
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: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-8

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

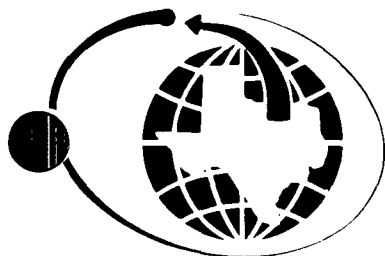
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 µg/Kg	< 10.0 µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013502



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-9

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

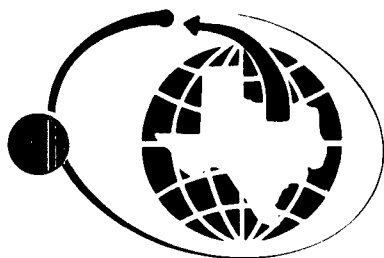
SAMPLE MATRIX : SOIL  
ID MARKS : OW2-8  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 418.1

=====		
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
----- ----- -----		
TEST REQUESTED	DETECTION LIMIT	RESULTS
----- ----- -----		
Total Petroleum Hydrocarbon	10 mg/Kg	48 mg/Kg
----- ----- -----		

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-9

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

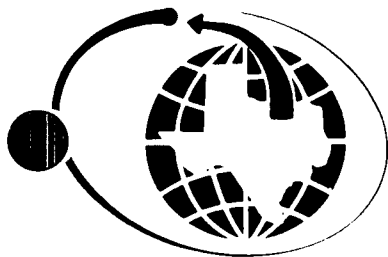
SAMPLE MATRIX : SOIL  
ID MARKS : OW2-8  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	83.0 %

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David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-10

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-9

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

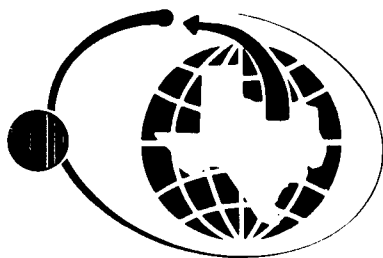
ANALYSIS METHOD : EPA 418.1

=====		
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
-----		
TEST REQUESTED	DETECTION LIMIT	RESULTS
-----		
Total Petroleum Hydrocarbon	10 mg/Kg	11 mg/Kg
-----		

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-10

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-9

: Proj:3519-010-335/Homco 135

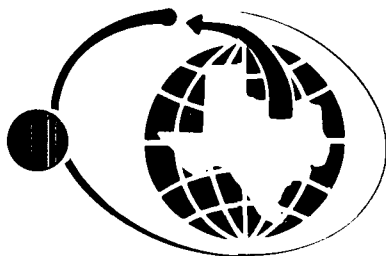
DATE SAMPLED : 23-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	84.0 %

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David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-10

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-9

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

ANALYSIS METHOD : EPA 8020

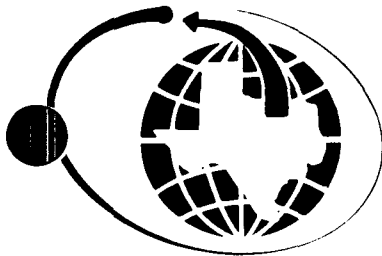
BTEX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
Bromofluorobenzene(SS)	50.0	µg/Kg	52.0	µg/Kg	

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*David R. Godwin* Kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-10

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-9

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

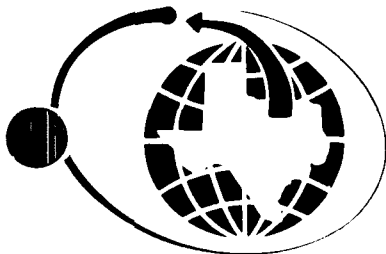
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-11

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-10

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

ANALYSIS METHOD : EPA 8020

BTEX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg		6.0	µg/Kg
Xylenes	2.0	µg/Kg		15.0	µg/Kg

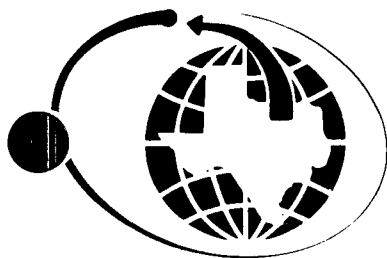
QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
Bromofluorobenzene(SS)	50.0	µg/Kg		51.0	µg/Kg

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-11

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-10

: Proj:3519-010-335/Homco 135

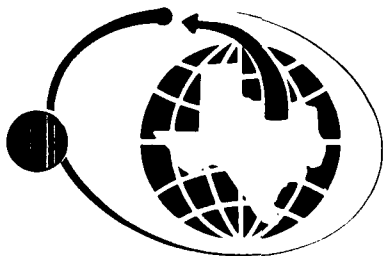
DATE SAMPLED : 23-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	94.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-11

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-10

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

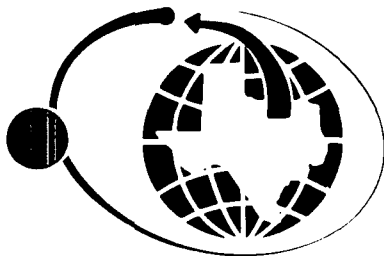
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	30 mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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REPORT NUMBER : H91-1405-11

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-10

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

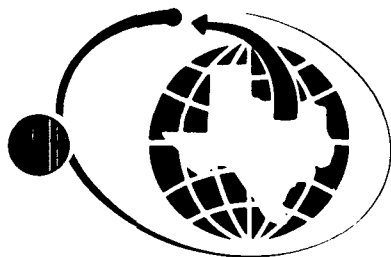
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013512



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DATE RECEIVED: 28-MAY-1991

REPORT NUMBER: H91-1405-12

REPORT DATE: 14-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

PURCHASE ORDER:

ID MARKS: OW2-13

Proj:3519-010-335/Homco 135

---

## TENTATIVELY IDENTIFIED COMPOUNDS

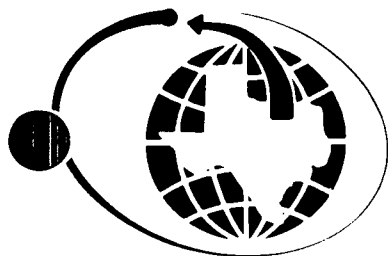
---

COMPOUND	RETENTION TIME	FRACTION	RESULTS
Tentatively Identified Compounds			
No VOA compounds detected above		VOA	10 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin* *kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013513



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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-12

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-13

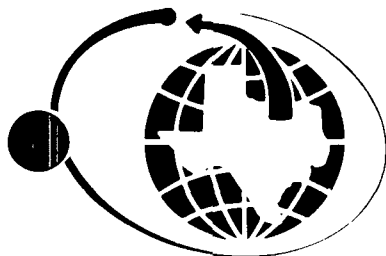
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Chloromethane	10.0	µg/Kg	<	10.0	µg/Kg
Bromomethane	10.0	µg/Kg	<	10.0	µg/Kg
Vinyl chloride	10.0	µg/Kg	<	10.0	µg/Kg
Chloroethane	10.0	µg/Kg	<	10.0	µg/Kg
Methylene chloride	5.0	µg/Kg	<	5.0	µg/Kg
Acetone	100	µg/Kg	<	100	µg/Kg
Carbon disulfide	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
1,1-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chloroform	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
2-Butanone	100	µg/Kg	<	100	µg/Kg
1,1,1-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Carbon tetrachloride	5.0	µg/Kg	<	5.0	µg/Kg

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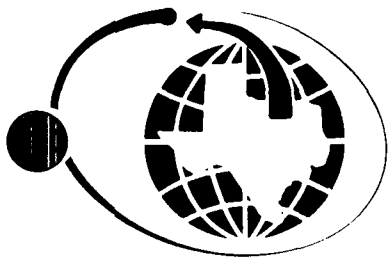
HOUSTON

REPORT NUMBER : H91-1405-12  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Vinyl acetate	50.0	µg/Kg	<	50.0	µg/Kg
Bromodichloromethane	5.0	µg/Kg	<	5.0	µg/Kg
1,2-Dichloropropane	5.0	µg/Kg	<	5.0	µg/Kg
cis-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Trichloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Chlorodibromomethane	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2-Trichloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Benzene	5.0	µg/Kg	<	5.0	µg/Kg
trans-1,3-Dichloropropene	5.0	µg/Kg	<	5.0	µg/Kg
Bromoform	5.0	µg/Kg	<	5.0	µg/Kg
2-Chloroethylvinyl ether	10.0	µg/Kg	<	10.0	µg/Kg
4-Methyl-2-pentanone	50.0	µg/Kg	<	50.0	µg/Kg
2-Hexanone	50.0	µg/Kg	<	50.0	µg/Kg
Tetrachloroethene	5.0	µg/Kg	<	5.0	µg/Kg
Toluene	5.0	µg/Kg	<	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	5.0	µg/Kg	<	5.0	µg/Kg
Chlorobenzene	5.0	µg/kg	<	5.0	µg/kg
Ethylbenzene	5.0	µg/Kg	<	5.0	µg/Kg
Styrene	5.0	µg/Kg	<	5.0	µg/Kg
Xylenes	5.0	µg/Kg	<	5.0	µg/Kg

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HOUSTON

REPORT NUMBER : H91-1405-12  
ANALYSIS METHOD : EPA 8240

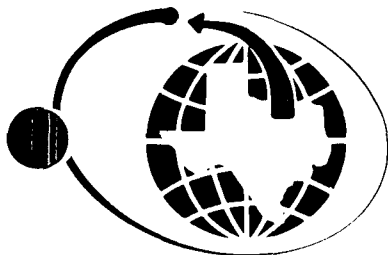
PAGE 3

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
1,2-Dichloroethane-d4 (SS)	50.0	µg/Kg	108	%	
Toluene-d8 (SS)	50.0	µg/Kg	103	%	
Bromofluorobenzene (SS)	50.0	µg/Kg	101	%	

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013516



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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-12

REPORT DATE : 14-JUN-1991

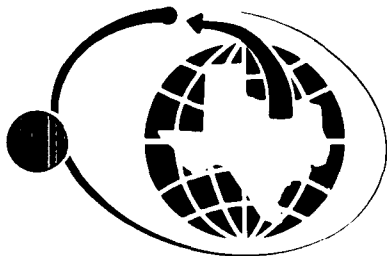
SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW2-13  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Phenol	660	µg/Kg	<	660	µg/Kg
2-Chlorophenol	660	µg/Kg	<	660	µg/Kg
2-Methylphenol	660	µg/Kg	<	660	µg/Kg
4-Methylphenol	660	µg/Kg	<	660	µg/Kg
2-Nitrophenol	660	µg/Kg	<	660	µg/Kg
2,4-Dimethylphenol	660	µg/Kg	<	660	µg/Kg
Benzoic acid	3300	µg/Kg	<	3300	µg/Kg
2,4-Dichlorophenol	660	µg/Kg	<	660	µg/Kg
4-Chloro-3-methylphenol	1300	µg/Kg	<	1300	µg/Kg
2,4,6-Trichlorophenol	660	µg/Kg	<	660	µg/Kg
2,4,5-Trichlorophenol	3300	µg/Kg	<	3300	µg/Kg
2,4-Dinitrophenol	3300	µg/Kg	<	3300	µg/Kg
4-Nitrophenol	3300	µg/Kg	<	3300	µg/Kg
4,6-Dinitro-2-methylphenol	3300	µg/Kg	<	3300	µg/Kg
Pentachlorophenol	3300	µg/Kg	<	3300	µg/Kg

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REPORT NUMBER : H91-1405-12  
ANALYSIS METHOD : EPA 8270

PAGE 2

ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	52.5 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	52.5 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	60.2 %

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013518



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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-12

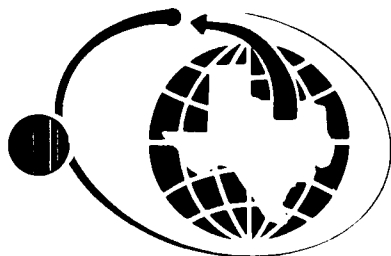
REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW2-13  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Bis(2-chloroethyl)ether	660	µg/Kg	<	660	µg/Kg	
1,3-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
1,4-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Benzyl alcohol	1300	µg/Kg	<	1300	µg/Kg	
1,2-Dichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Bis(2-Chloroisopropyl)ether	660	µg/Kg	<	660	µg/Kg	
N-Nitroso-Di-N-propylamine	660	µg/Kg	<	660	µg/Kg	
Hexachloroethane	660	µg/Kg	<	660	µg/Kg	
Nitrobenzene	660	µg/Kg	<	660	µg/Kg	
Isophorone	660	µg/Kg	<	660	µg/Kg	
Bis(2-chloroethoxy)methane	660	µg/Kg	<	660	µg/Kg	
1,2,4-Trichlorobenzene	660	µg/Kg	<	660	µg/Kg	
Naphthalene	660	µg/Kg	<	660	µg/Kg	
4-Chloroaniline	1300	µg/Kg	<	1300	µg/Kg	
Hexachlorobutadiene	660	µg/Kg	<	660	µg/Kg	

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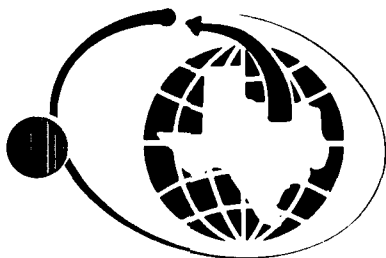
HOUSTON

REPORT NUMBER : H91-1405-12  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT		RESULTS			
2-Methylnaphthalene	660	µg/Kg	<	660	µg/Kg	
Hexachlorocyclopentadiene	660	µg/Kg	<	660	µg/Kg	
2-Chloronaphthalene	660	µg/Kg	<	660	µg/Kg	
2-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Dimethylphthalate	660	µg/Kg	<	660	µg/Kg	
Acenaphthylene	660	µg/Kg	<	660	µg/Kg	
2,6-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
3-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
Acenaphthene	660	µg/Kg	<	660	µg/Kg	
Dibenzofuran	660	µg/Kg	<	660	µg/Kg	
2,4-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg	
Diethylphthalate	660	µg/Kg	<	660	µg/Kg	
4-Chlorophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Fluorene	660	µg/Kg	<	660	µg/Kg	
4-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg	
N-Nitrosodiphenylamine	660	µg/Kg	<	660	µg/Kg	
4-Bromophenylphenyl ether	660	µg/Kg	<	660	µg/Kg	
Hexachlorobenzene	660	µg/Kg	<	660	µg/Kg	
Phenanthrene	660	µg/Kg	<	660	µg/Kg	
Anthracene	660	µg/Kg	<	660	µg/Kg	
Di-n-butylphthalate	660	µg/Kg	<	660	µg/Kg	

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REPORT NUMBER : H91-1405-12  
ANALYSIS METHOD : EPA 8270

PAGE 3

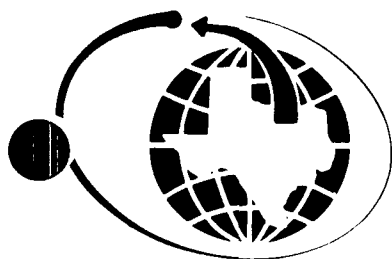
BASE-NEUTRAL EXTRACTABLE ORGANICS						
TEST REQUESTED	DETECTION LIMIT			RESULTS		
Fluoranthene	660	µg/Kg	<	660	µg/Kg	
Pyrene	660	µg/Kg	<	660	µg/Kg	
Butyl benzyl phthalate	660	µg/Kg	<	660	µg/Kg	
3,3'-Dichlorobenzidine	1300	µg/Kg	<	1300	µg/Kg	
Benzo(a)anthracene	660	µg/Kg	<	660	µg/Kg	
Chrysene	660	µg/Kg	<	660	µg/Kg	
Bis(2-ethylhexyl)phthalate	660	µg/Kg	<	660	µg/Kg	
Di-n-octylphthalate	660	µg/Kg	<	660	µg/Kg	
Benzo(b)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(k)fluoranthene	660	µg/Kg	<	660	µg/Kg	
Benzo(a)pyrene	660	µg/Kg	<	660	µg/Kg	
Indeno(1,2,3-cd)pyrene	660	µg/Kg	<	660	µg/Kg	
Dibenzo(a,h)anthracene	660	µg/Kg	<	660	µg/Kg	
Benzo(g,h,i)perylene	660	µg/Kg	<	660	µg/Kg	

QUALITY CONTROL DATA				
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED	
Nitrobenzene-d5 (SS)	50.0	µg/Kg	41.0	%
2-Fluorobiphenyl (SS)	50.0	µg/Kg	46.8	%
Terphenyl-d14 (SS)	50.0	µg/Kg	62.5	%

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Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-12

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

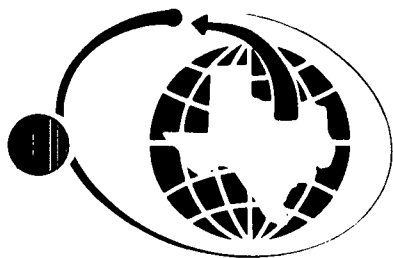
SAMPLE MATRIX : SOIL  
ID MARKS : OW2-13  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	82.0 %

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*David R. Godwin* kgw  
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Chief Executive Officer

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HOUSTON

DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-12

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-13

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

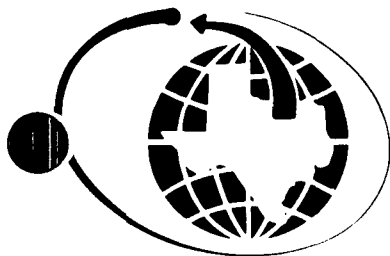
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl tertiary butyl ether	5.0 µg/Kg	< 5.0 µg/Kg

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David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-13

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW2-16

: Proj:3519-010-335/Homco 135

DATE SAMPLED : 23-MAY-1991

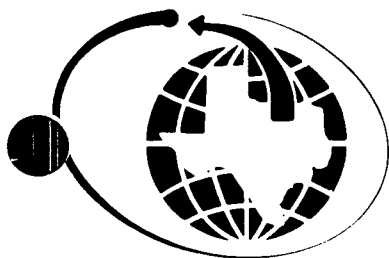
MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	82.0 %

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*David R. Godwin*  
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Chief Executive Officer

*Kgw*

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-13

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW2-16  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 418.1

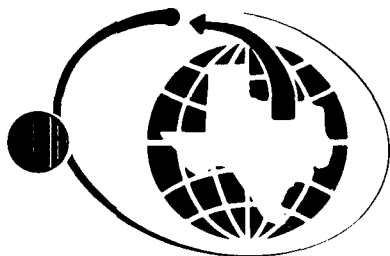
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	11 mg/Kg

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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-13

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

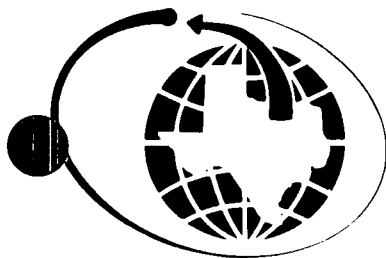
SAMPLE MATRIX : SOIL  
ID MARKS : OW2-16  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 8030

=====		
METHYL TERTIARY BUTYL ETHER		
-----		
TEST REQUESTED	DETECTION LIMIT	RESULTS
-----		
Methyl Tertiary Butyl Ether	10.0 µg/Kg	< 10.0 µg/Kg
-----		

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*David R. Godwin* kgw  
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DATE RECEIVED : 28-MAY-1991

REPORT NUMBER : H91-1405-13

REPORT DATE : 14-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW2-16  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 23-MAY-1991  
ANALYSIS METHOD : EPA 8020

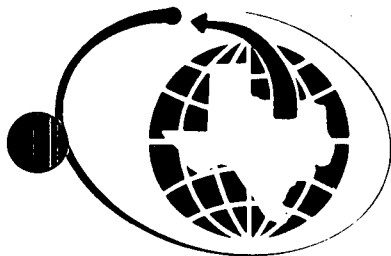
BTEX ANALYSIS				
TEST REQUESTED	DETECTION LIMIT		RESULTS	
Benzene	2.0	µg/Kg	<	2.0 µg/Kg
Toluene	2.0	µg/Kg	<	2.0 µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0 µg/Kg
Xylenes	2.0	µg/Kg	<	2.0 µg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Bromofluorobenzene(SS)	50.0 µg/Kg	52.0 µg/Kg

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-1

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : LIQUID  
ID MARKS : TB-3 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 602

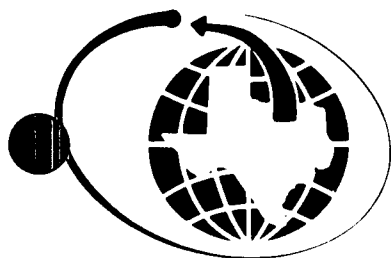
BTEX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Benzene	1.0	µg/L	<	1.0	µg/L
Toluene	1.0	µg/L	<	1.0	µg/L
Ethyl benzene	1.0	µg/L	<	1.0	µg/L
Xylenes	1.0	µg/L	<	1.0	µg/L

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
Bromofluorobenzene(SS)	50.0	µg/L		41.0	µg/L

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Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-1

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

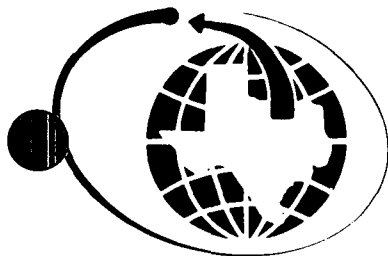
SAMPLE MATRIX : LIQUID  
ID MARKS : TB-3 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	5.0 µg/L	< 5.0 µg/L

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-2

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

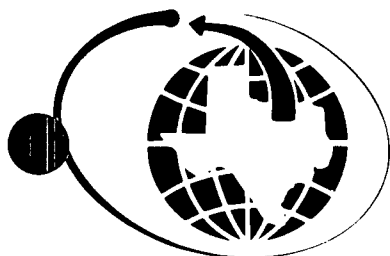
SAMPLE MATRIX : LIQUID  
ID MARKS : OW3-3- Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 µg/Kg	< 10.0 µg/Kg

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-2

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : LIQUID

ID MARKS : OW3-3- Project #3519-010 335

: Homco Hobbs, NM

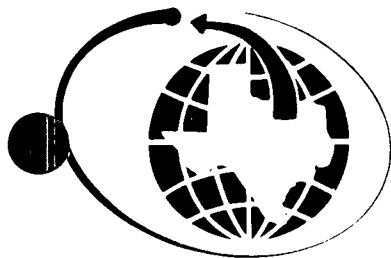
DATE SAMPLED : 30-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	87.0 %

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Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-3

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

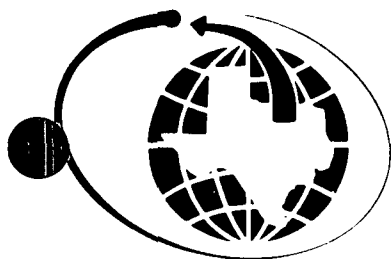
SAMPLE MATRIX : SOIL  
ID MARKS : OW3-3D-Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-3

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-3D-Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	87.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-4

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-7- Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

ANALYSIS METHOD : EPA 8020

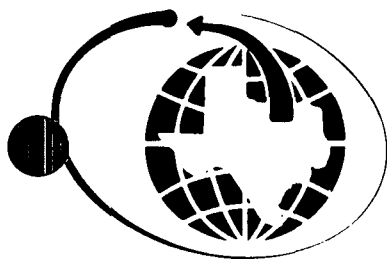
BTEX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
Bromofluorobenzene(SS)	50.0	µg/Kg	55.0	µg/Kg	

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-4

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-7- Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

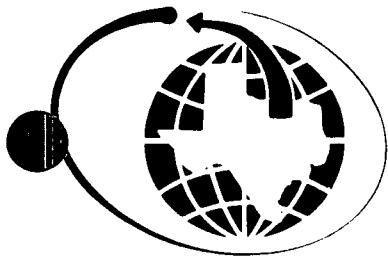
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 µg/Kg	< 10.0 µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin Rgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-4

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-7- Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

ANALYSIS METHOD : EPA 418.1

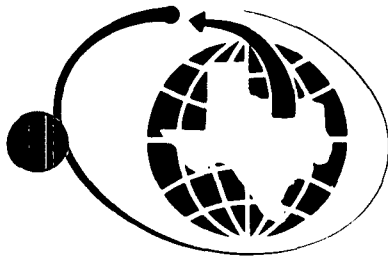
TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	20 mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin Rgw*  
David R. Godwin, Ph.D.

Chief Executive Officer

EN135013600



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-4

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

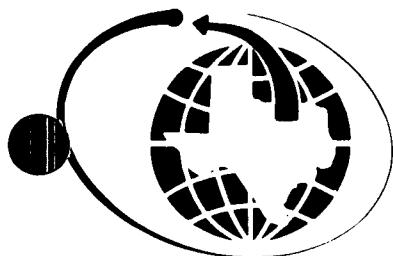
SAMPLE MATRIX : SOIL  
ID MARKS : OW3-7- Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	90.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-5

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW3-9- Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8020

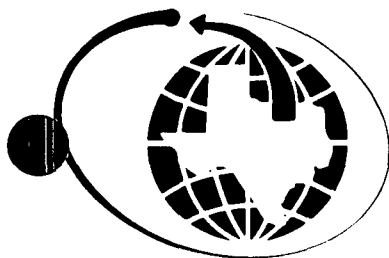
BTEX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
Bromofluorobenzene(SS)	50.0	µg/Kg	58.0	µg/Kg	

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

135013602



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DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-5

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-9- Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

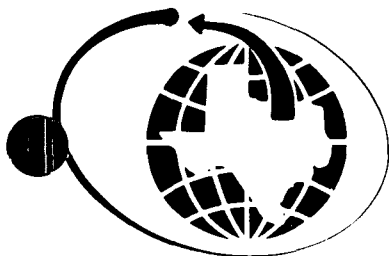
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013603



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DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-5

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

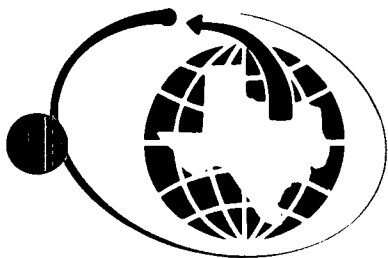
SAMPLE MATRIX : SOIL  
ID MARKS : OW3-9- Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS			
TEST REQUESTED	DETECTION LIMIT		RESULTS
Total Petroleum Hydrocarbon	10	mg/Kg	28 mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-5

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-9- Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

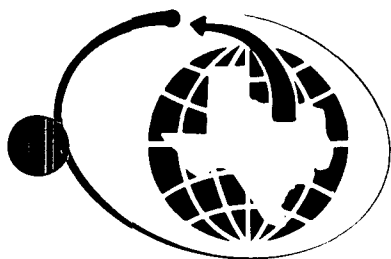
MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	83.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-6

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-10 Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

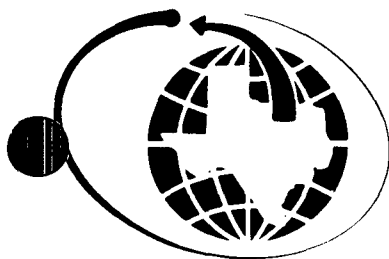
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-6

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-10 Project #3519-010 335

: Homco Hobbs, NM

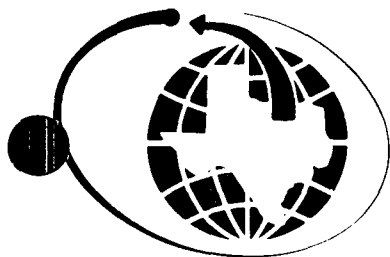
DATE SAMPLED : 30-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	85.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-7

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW3-11 Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8020

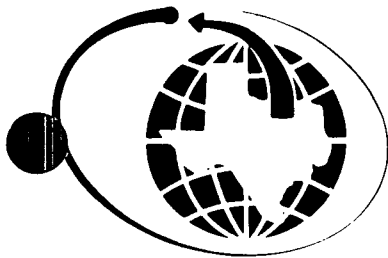
BTX ANALYSIS			
TEST REQUESTED	DETECTION LIMIT		RESULTS
Benzene	2.0	$\mu\text{g/Kg}$	< 2.0 $\mu\text{g/Kg}$
Toluene	2.0	$\mu\text{g/Kg}$	< 2.0 $\mu\text{g/Kg}$
Ethyl benzene	2.0	$\mu\text{g/Kg}$	< 2.0 $\mu\text{g/Kg}$
Xylenes	2.0	$\mu\text{g/Kg}$	< 2.0 $\mu\text{g/Kg}$

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Bromofluorobenzene(SS)	50.0 $\mu\text{g/Kg}$	58.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-7

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-11 Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

ANALYSIS METHOD : EPA 8030

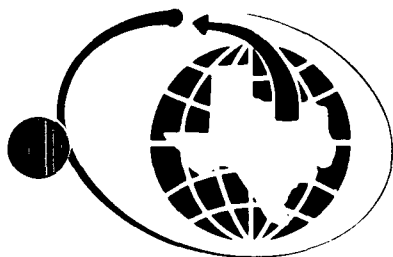
METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.

Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-7

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-11 Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

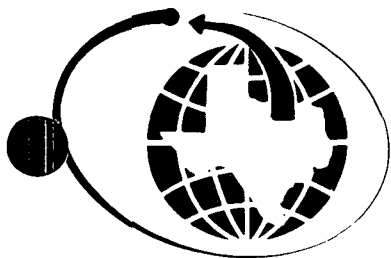
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	15 mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013610



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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-7

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-11 Project #3519-010 335

: Homco Hobbs, NM

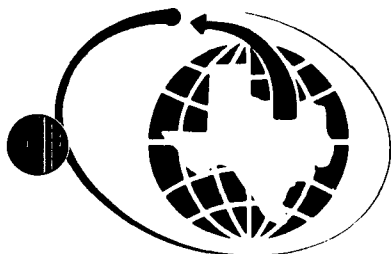
DATE SAMPLED : 30-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	83.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013611



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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-8

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-4- Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

ANALYSIS METHOD : EPA 8030

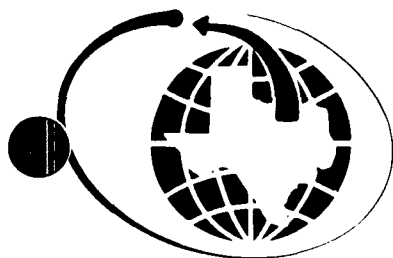
METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.

Chief Executive Officer

EN135013612



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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-8

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-4- Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

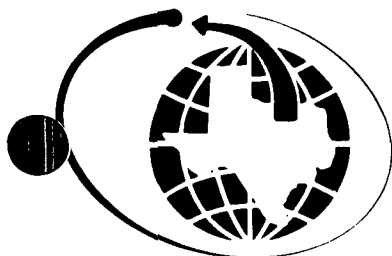
MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	85.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013613





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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-9

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW4-7- Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8020

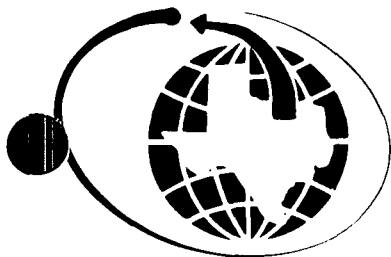
BTEX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
Bromofluorobenzene(SS)	50.0	µg/Kg	57.0	µg/Kg	

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013614



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DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-9

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-7- Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

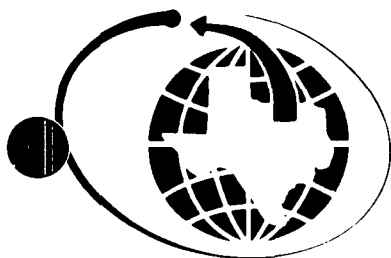
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013615



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-9

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-7- Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

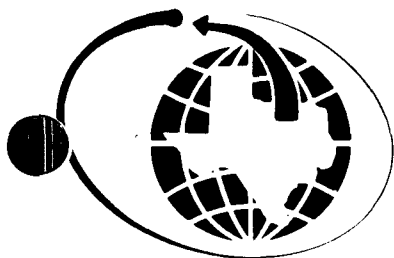
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	18 mg/Kg

EN135013616

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-9

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-7- Project #3519-010 335

: Homco Hobbs, NM

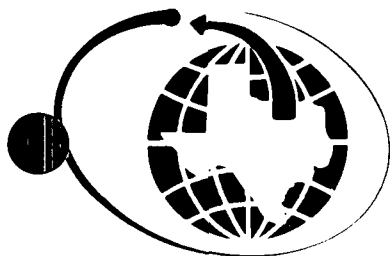
DATE SAMPLED : 30-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	85.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013617



# NDRC LABORATORIES, INC.

A member of the Inchcape Environmental Group

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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-10

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-9- Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

ANALYSIS METHOD : EPA 8020

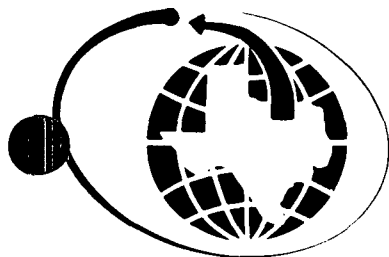
BTEX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT			RESULTS	
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL			SPIKE RECOVERED	
Bromofluorobenzene(SS)	50.0	µg/Kg		55.0	µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013618



# NDRC LABORATORIES, INC.

A member of the Inchcape Environmental Group

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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-10

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

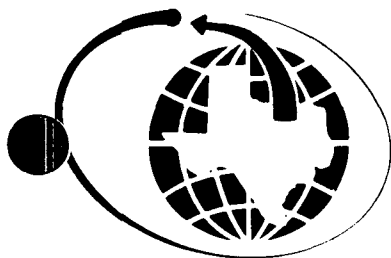
SAMPLE MATRIX : SOIL  
ID MARKS : OW4-9- Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013619



# NDRC LABORATORIES, INC.

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11155 South Main, Houston, Texas 77025 • (713) 661-8150 • FAX (713) 661-2661

BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-10

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-9- Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

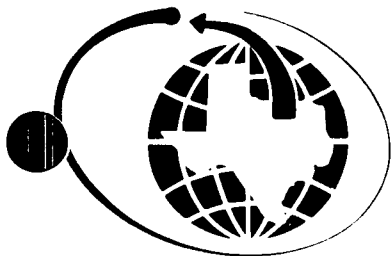
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	50 mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013620



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: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

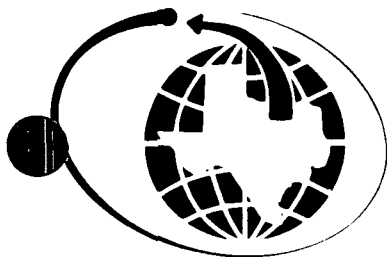
MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	88.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-11

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

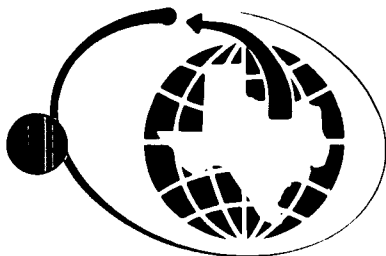
SAMPLE MATRIX : SOIL  
ID MARKS : OW4-11 Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-11

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-11 Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	82.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-12

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-12 Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

ANALYSIS METHOD : EPA 8020

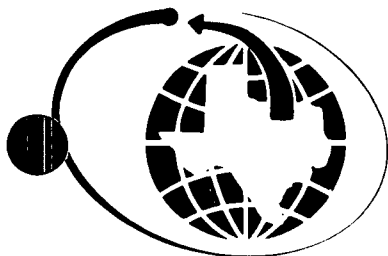
BTEX ANALYSIS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

QUALITY CONTROL DATA					
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED		
Bromofluorobenzene(SS)	50.0	µg/Kg		58.0	µg/Kg

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*David R. Godwin*  
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Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-12

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-12 Project #3519-010 335

: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

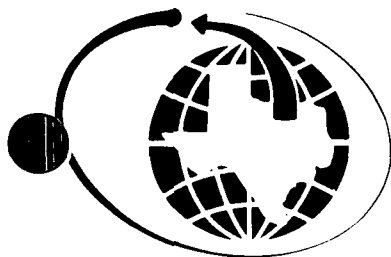
ANALYSIS METHOD : EPA 8030

METHYL TERTIARY BUTYL ETHER		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether	10.0 µg/Kg	< 10.0 µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-12

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

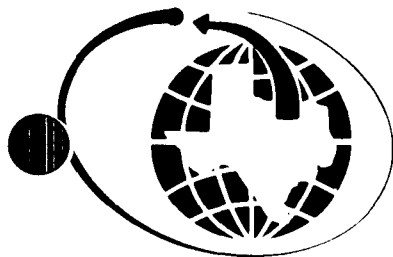
SAMPLE MATRIX : SOIL  
ID MARKS : OW4-12 Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	< 10 mg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1478-12

REPORT DATE : 7-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-12 Project #3519-010 335

: Homco Hobbs, NM

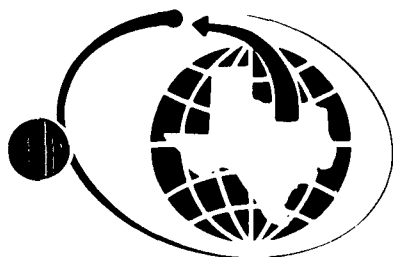
DATE SAMPLED : 30-MAY-1991

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	1.0 %	86.0 %

NDRC Laboratories, Inc.

*David R. Godwin* rgo  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 5/31/91

REPORT NUMBER: H91 1478:01-12

REPORT DATE: 6/7/91

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ATTENTION: Mr. Dave Dorrance

## LABORATORY ANALYSIS QUALITY CONTROL REPORT

ANALYSIS: TPH  
Technician: RLM  
Date Sampled: 5/30/91  
Extraction Date: 6/3/91  
Date Analyzed: 6/3/91  
QC Date: 6/3/91  
QC Sample Number: 1478-9

Analysis Method: EPA 418.1  
Extraction Method: 3550  
MS/MSD RPD: 18%  
Average Spike Recovery: 99%  
Duplicate RPD: ---  
Method Blank: ---  
Blank Spike Recovery: ---

ANALYSIS: MTBE  
Technician: KSG  
Date Sampled: 5/28, 5/30, 5/31/91  
Extraction Date: ---  
Date Analyzed: 6/1/91  
QC Date: 6/1/91  
QC Sample Number: 1478-12

Analysis Method: EPA 8020  
Extraction Method: ---  
MS/MSD RPD: 11%  
Average Spike Recovery: 107%  
Duplicate RPD: ---  
Method Blank: < 5  
Blank Spike Recovery: 101%

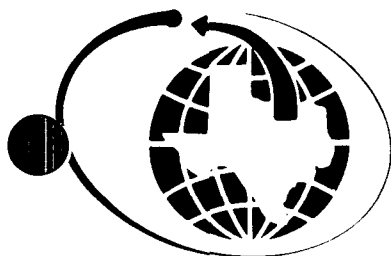
ANALYSIS: Benzene  
Technician: KSG  
Date Sampled: 5/28, 5/30, 5/31/91  
Extraction Date: ---  
Date Analyzed: 6/1/91  
QC Date: 6/1/91  
QC Sample Number: 1478-12

Analysis Method: EPA 8020  
Extraction Method: ---  
MS/MSD RPD: 2%  
Average Spike Recovery: 103%  
Duplicate RPD: ---  
Method Blank: < 2  
Blank Spike Recovery: 100%

ANALYSIS: Toluene  
Technician: KSG  
Date Sampled: 5/28, 5/30, 5/31/91  
Extraction Date: ---  
Date Analyzed: 6/1/91  
QC Date: 6/1/91  
QC Sample Number: 1478-12

Analysis Method: EPA 8020  
Extraction Method: ---  
MS/MSD RPD: 2%  
Average Spike Recovery: 102%  
Duplicate RPD: ---  
Method Blank: < 2  
Blank Spike Recovery: 100%

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DATE RECEIVED: 5/31/91

REPORT NUMBER: H91 1478:01-12

REPORT DATE: 6/7/91

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ATTENTION: Mr. Dave Dorrance

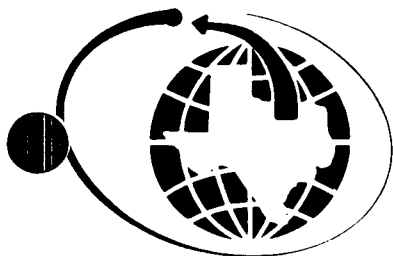
## LABORATORY ANALYSIS QUALITY CONTROL REPORT

ANALYSIS: Ethylbenzene	Analysis Method: EPA 8020
Technician: KSG	Extraction Method: ---
Date Sampled: 5/28, 5/30, 5/31/91	MS/MSD RPD: 0%
Extraction Date: ---	Average Spike Recovery: 104%
Date Analyzed: 6/1/91	Duplicate RPD: ---
QC Date: 6/1/91	Method Blank: < 2
QC Sample Number: 1478-12	Blank Spike Recovery: 100%

ANALYSIS: Xylenes	Analysis Method: EPA 8020
Technician: KSG	Extraction Method: ---
Date Sampled: 5/28, 5/30, 5/31/91	MS/MSD RPD: 11%
Extraction Date: ---	Average Spike Recovery: 95%
Date Analyzed: 6/1/91	Duplicate RPD: ---
QC Date: 6/1/91	Method Blank: < 2
QC Sample Number: 1478-12	Blank Spike Recovery: 101%

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-1

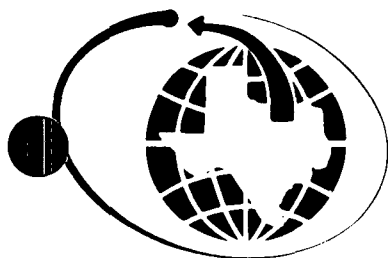
REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : TB-3 PROJECT #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	10.0 µg/Kg	< 10.0 µg/Kg
Bromomethane	10.0 µg/Kg	< 10.0 µg/Kg
Vinyl chloride	10.0 µg/Kg	< 10.0 µg/Kg
Chloroethane	10.0 µg/Kg	< 10.0 µg/Kg
Methylene chloride	5.0 µg/Kg	< 5.0 µg/Kg
Acetone	100 µg/Kg	< 100 µg/Kg
Carbon disulfide	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
Chloroform	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
2-Butanone	100 µg/Kg	< 100 µg/Kg
1,1,1-Trichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
Carbon tetrachloride	5.0 µg/Kg	< 5.0 µg/Kg
Vinyl acetate	50.0 µg/Kg	< 50.0 µg/Kg
Bromodichloromethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloropropane	5.0 µg/Kg	< 5.0 µg/Kg
cis-1,3-Dichloropropene	5.0 µg/Kg	< 5.0 µg/Kg

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HOUSTON

REPORT NUMBER : H91-1480-1  
ANALYSIS METHOD : EPA 8240

PAGE 2

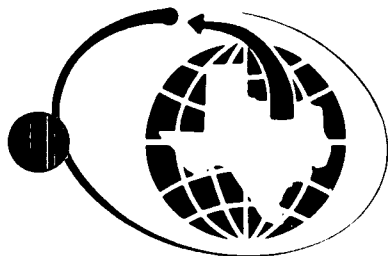
VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Trichloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorodibromomethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2-Trichloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Benzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
trans-1,3-Dichloropropene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Bromoform	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
2-Chloroethylvinyl ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$
4-Methyl-2-pentanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
2-Hexanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
Tetrachloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Toluene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2,2-Tetrachloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorobenzene	5.0 $\mu\text{g/kg}$	< 5.0 $\mu\text{g/kg}$
Ethylbenzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Styrene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Xylenes	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 $\mu\text{g/Kg}$	106 %
Toluene-d8 (SS)	50.0 $\mu\text{g/Kg}$	100 %
Bromofluorobenzene (SS)	50.0 $\mu\text{g/Kg}$	100 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013631



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-1


REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

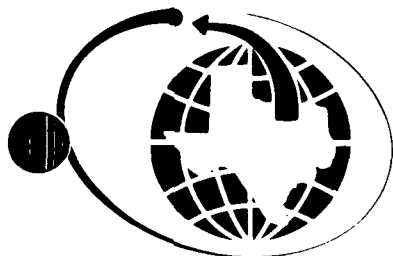
SAMPLE MATRIX : SOIL  
ID MARKS : TB-3 PROJECT #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013632



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REPORT NUMBER : H91-1480-1

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : TB-3 PROJECT #3519-010 335

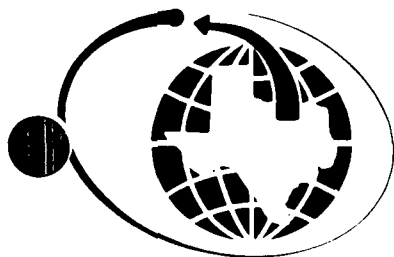
: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Phenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitrophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dimethylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzoic acid	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloro-3-methylphenol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
2,4,6-Trichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4,5-Trichlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dinitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4-Nitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4,6-Dinitro-2-methylphenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Pentachlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

EN135013633



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REPORT NUMBER : H91-1480-1

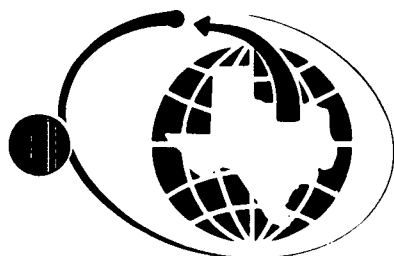
REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : TB-3 PROJECT #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Bis(2-chloroethyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,3-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,4-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzyl alcohol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
1,2-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-Chloroisopropyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
N-Nitroso-Di-N-propylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachloroethane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Nitrobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Isophorone	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-chloroethoxy)methane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,2,4-Trichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Naphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloroaniline	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Hexachlorobutadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylnaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorocyclopentadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chloronaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

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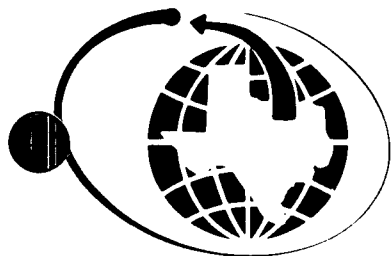
HOUSTON

REPORT NUMBER : H91-1480-1  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Dimethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Acenaphthylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,6-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Acenaphthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzofuran	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Diethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chlorophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Fluorene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
N-Nitrosodiphenylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Bromophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Phenanthrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-butylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Butyl benzyl phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3,3'-Dichlorobenzidine	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Benzo(a)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Chrysene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-ethylhexyl)phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-octylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(b)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

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REPORT NUMBER : H91-1480-1  
ANALYSIS METHOD : EPA 8270

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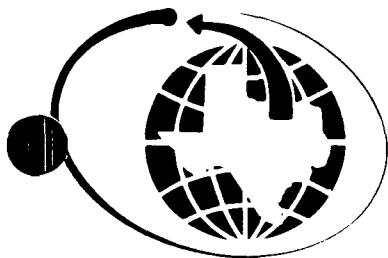
BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzo(k)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(a)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Indeno(1,2,3-cd)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzo(a,h)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(g,h,i)perylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Nitrobenzene-d5 (SS)	50.0 $\mu\text{g/Kg}$	62.8 %
2-Fluorobiphenyl (SS)	50.0 $\mu\text{g/Kg}$	65.4 %
Terphenyl-d14 (SS)	50.0 $\mu\text{g/Kg}$	65.4 %

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-1

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : TB-3 PROJECT #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991

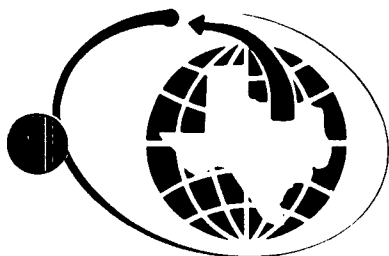
TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	660 $\mu\text{g/Kg}$

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David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-2

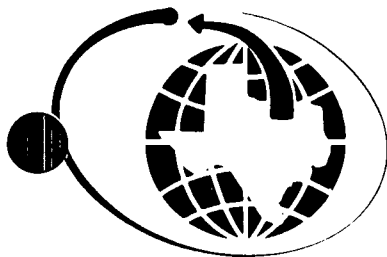
REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW3-3D - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	10.0 µg/Kg	< 10.0 µg/Kg
Bromomethane	10.0 µg/Kg	< 10.0 µg/Kg
Vinyl chloride	10.0 µg/Kg	< 10.0 µg/Kg
Chloroethane	10.0 µg/Kg	< 10.0 µg/Kg
Methylene chloride	5.0 µg/Kg	< 5.0 µg/Kg
Acetone	100 µg/Kg	< 100 µg/Kg
Carbon disulfide	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
Chloroform	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
2-Butanone	100 µg/Kg	< 100 µg/Kg
1,1,1-Trichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
Carbon tetrachloride	5.0 µg/Kg	< 5.0 µg/Kg
Vinyl acetate	50.0 µg/Kg	< 50.0 µg/Kg
Bromodichloromethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloropropane	5.0 µg/Kg	< 5.0 µg/Kg
cis-1,3-Dichloropropene	5.0 µg/Kg	< 5.0 µg/Kg

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REPORT NUMBER : H91-1480-2  
ANALYSIS METHOD : EPA 8240

PAGE 2

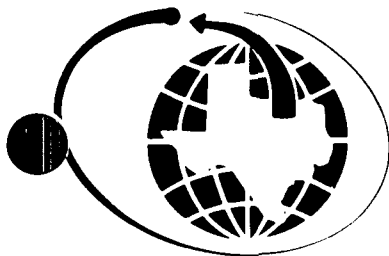
VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Trichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
Chlorodibromomethane	5.0 µg/Kg	< 5.0 µg/Kg
1,1,2-Trichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
Benzene	5.0 µg/Kg	< 5.0 µg/Kg
trans-1,3-Dichloropropene	5.0 µg/Kg	< 5.0 µg/Kg
Bromoform	5.0 µg/Kg	< 5.0 µg/Kg
2-Chloroethylvinyl ether	10.0 µg/Kg	< 10.0 µg/Kg
4-Methyl-2-pentanone	50.0 µg/Kg	< 50.0 µg/Kg
2-Hexanone	50.0 µg/Kg	< 50.0 µg/Kg
Tetrachloroethene	5.0 µg/Kg	< 5.0 µg/Kg
Toluene	5.0 µg/Kg	< 5.0 µg/Kg
1,1,2,2-Tetrachloroethane	5.0 µg/Kg	< 5.0 µg/Kg
Chlorobenzene	5.0 µg/kg	< 5.0 µg/kg
Ethylbenzene	5.0 µg/Kg	< 5.0 µg/Kg
Styrene	5.0 µg/Kg	< 5.0 µg/Kg
Xylenes	5.0 µg/Kg	< 5.0 µg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/Kg	101 %
Toluene-d8 (SS)	50.0 µg/Kg	105 %
Bromofluorobenzene (SS)	50.0 µg/Kg	97.1 %

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-2

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

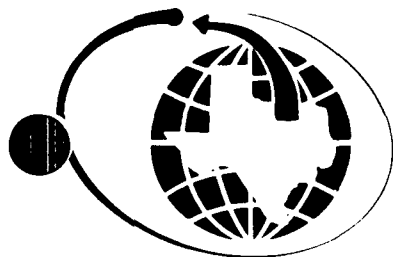
SAMPLE MATRIX : SOIL  
ID MARKS : OW3-3D - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 $\mu\text{g/Kg}$

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DATE RECEIVED : 31-MAY-1991

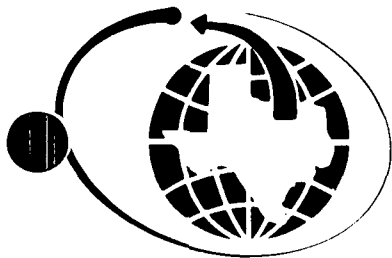
REPORT NUMBER : H91-1480-2  
REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW3-3D - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Phenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitrophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dimethylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzoic acid	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloro-3-methylphenol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
2,4,6-Trichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4,5-Trichlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dinitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4-Nitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4,6-Dinitro-2-methylphenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Pentachlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

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REPORT NUMBER : H91-1480-2  
ANALYSIS METHOD : EPA 8270

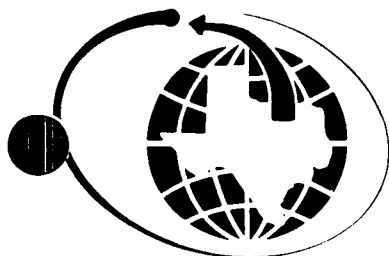
PAGE 2

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	68.7 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	67.6 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	67.4 %

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*David R. Godwin* (Signature)  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-2

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW3-3D - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Bis(2-chloroethyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,3-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,4-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzyl alcohol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
1,2-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-Chloroisopropyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
N-Nitroso-Di-N-propylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachloroethane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Nitrobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Isophorone	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-chloroethoxy)methane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,2,4-Trichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Naphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloroaniline	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Hexachlorobutadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylnaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorocyclopentadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chloronaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

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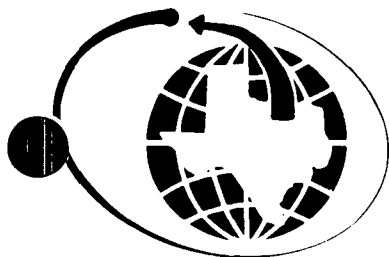
HOUSTON

REPORT NUMBER : H91-1480-2  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Dimethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Acenaphthylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,6-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Acenaphthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzofuran	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Diethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chlorophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Fluorene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
N-Nitrosodiphenylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Bromophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Phenanthrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-butylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Butyl benzyl phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3,3'-Dichlorobenzidine	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Benzo(a)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Chrysene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-ethylhexyl)phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-octylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(b)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

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REPORT NUMBER : H91-1480-2  
ANALYSIS METHOD : EPA 8270

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BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzo(k)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(a)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Indeno(1,2,3-cd)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzo(a,h)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(g,h,i)perylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

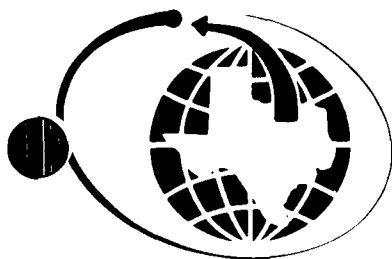
QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Nitrobenzene-d5 (SS)	50.0 $\mu\text{g/Kg}$	60.5 %
2-Fluorobiphenyl (SS)	50.0 $\mu\text{g/Kg}$	59.9 %
Terphenyl-d14 (SS)	50.0 $\mu\text{g/Kg}$	61.7 %

NDRC Laboratories, Inc.

*David R. Godwin* (Signature)  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DALLAS

HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-2

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

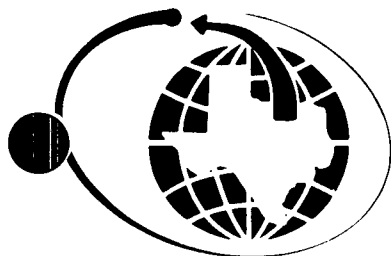
SAMPLE MATRIX : SOIL  
ID MARKS : OW3-3D - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	660 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-3

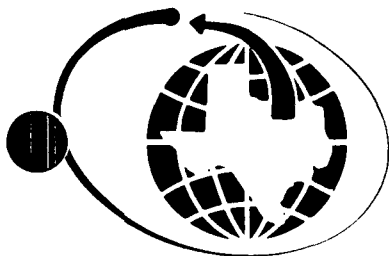
REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW3-10 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	10.0 µg/Kg	< 10.0 µg/Kg
Bromomethane	10.0 µg/Kg	< 10.0 µg/Kg
Vinyl chloride	10.0 µg/Kg	< 10.0 µg/Kg
Chloroethane	10.0 µg/Kg	< 10.0 µg/Kg
Methylene chloride	5.0 µg/Kg	< 5.0 µg/Kg
Acetone	100 µg/Kg	< 100 µg/Kg
Carbon disulfide	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
Chloroform	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
2-Butanone	100 µg/Kg	< 100 µg/Kg
1,1,1-Trichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
Carbon tetrachloride	5.0 µg/Kg	< 5.0 µg/Kg
Vinyl acetate	50.0 µg/Kg	< 50.0 µg/Kg
Bromodichloromethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloropropane	5.0 µg/Kg	< 5.0 µg/Kg
cis-1,3-Dichloropropene	5.0 µg/Kg	< 5.0 µg/Kg

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REPORT NUMBER : H91-1480-3  
ANALYSIS METHOD : EPA 8240

PAGE 2

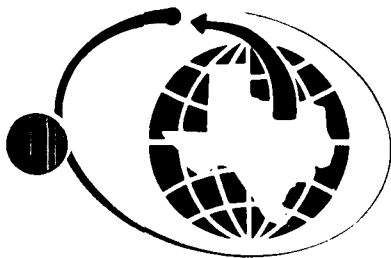
VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Trichloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorodibromomethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2-Trichloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Benzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
trans-1,3-Dichloropropene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Bromoform	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
2-Chloroethylvinyl ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$
4-Methyl-2-pentanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
2-Hexanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
Tetrachloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Toluene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2,2-Tetrachloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorobenzene	5.0 $\mu\text{g/kg}$	< 5.0 $\mu\text{g/kg}$
Ethylbenzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Styrene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Xylenes	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 $\mu\text{g/Kg}$	97.7 %
Toluene-d8 (SS)	50.0 $\mu\text{g/Kg}$	103 %
Bromofluorobenzene (SS)	50.0 $\mu\text{g/Kg}$	99.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-3

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

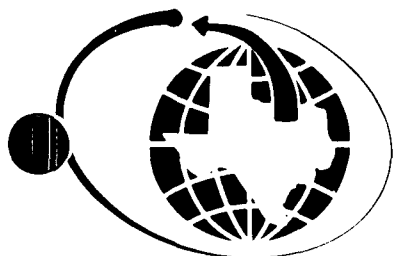
SAMPLE MATRIX : SOIL  
ID MARKS : OW3-10 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-3

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW3-10 - Project #3519-010 335

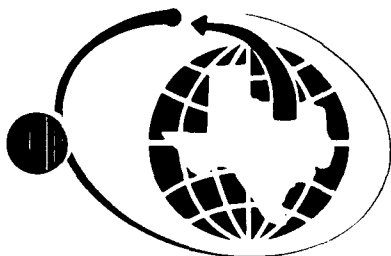
: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Phenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitrophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dimethylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzoic acid	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloro-3-methylphenol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
2,4,6-Trichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4,5-Trichlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dinitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4-Nitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4,6-Dinitro-2-methylphenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Pentachlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

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REPORT NUMBER : H91-1480-3  
ANALYSIS METHOD : EPA 8270

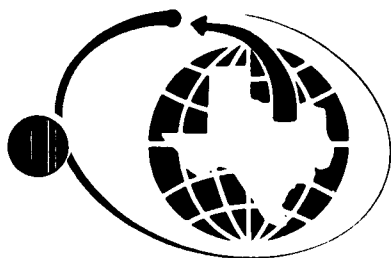
PAGE 2

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	67.9 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	66.6 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	70.1 %

NDRC Laboratories, Inc.

*David R. Godwin* (Signature)  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-3

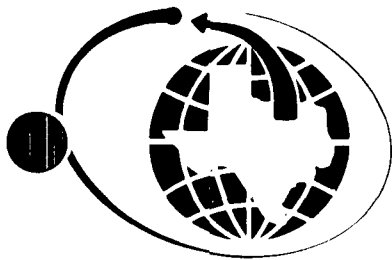
REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW3-10 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Bis(2-chloroethyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,3-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,4-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzyl alcohol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
1,2-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-Chloroisopropyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
N-Nitroso-Di-N-propylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachloroethane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Nitrobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Isophorone	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-chloroethoxy)methane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,2,4-Trichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Naphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloroaniline	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Hexachlorobutadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylnaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorocyclopentadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chloronaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

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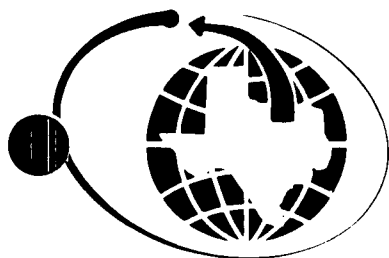
REPORT NUMBER : H91-1480-3  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS					
TEST REQUESTED	DETECTION LIMIT		RESULTS		
Dimethylphthalate	660	µg/Kg	<	660	µg/Kg
Acenaphthylene	660	µg/Kg	<	660	µg/Kg
2,6-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg
3-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg
Acenaphthene	660	µg/Kg	<	660	µg/Kg
Dibenzofuran	660	µg/Kg	<	660	µg/Kg
2,4-Dinitrotoluene	660	µg/Kg	<	660	µg/Kg
Diethylphthalate	660	µg/Kg	<	660	µg/Kg
4-Chlorophenylphenyl ether	660	µg/Kg	<	660	µg/Kg
Fluorene	660	µg/Kg	<	660	µg/Kg
4-Nitroaniline	3300	µg/Kg	<	3300	µg/Kg
N-Nitrosodiphenylamine	660	µg/Kg	<	660	µg/Kg
4-Bromophenylphenyl ether	660	µg/Kg	<	660	µg/Kg
Hexachlorobenzene	660	µg/Kg	<	660	µg/Kg
Phenanthrene	660	µg/Kg	<	660	µg/Kg
Anthracene	660	µg/Kg	<	660	µg/Kg
Di-n-butylphthalate	660	µg/Kg	<	660	µg/Kg
Fluoranthene	660	µg/Kg	<	660	µg/Kg
Pyrene	660	µg/Kg	<	660	µg/Kg
Butyl benzyl phthalate	660	µg/Kg	<	660	µg/Kg
3,3'-Dichlorobenzidine	1300	µg/Kg	<	1300	µg/Kg
Benzo(a)anthracene	660	µg/Kg	<	660	µg/Kg
Chrysene	660	µg/Kg	<	660	µg/Kg
Bis(2-ethylhexyl)phthalate	660	µg/Kg	<	660	µg/Kg
Di-n-octylphthalate	660	µg/Kg	<	660	µg/Kg
Benzo(b)fluoranthene	660	µg/Kg	<	660	µg/Kg

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REPORT NUMBER : H91-1480-3  
ANALYSIS METHOD : EPA 8270

PAGE 3

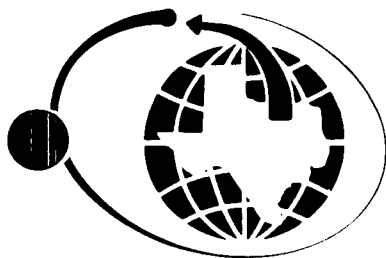
BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzo(k)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(a)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Indeno(1,2,3-cd)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzo(a,h)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(g,h,i)perylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Nitrobenzene-d5 (SS)	50.0 $\mu\text{g/Kg}$	61.5 %
2-Fluorobiphenyl (SS)	50.0 $\mu\text{g/Kg}$	59.6 %
Terphenyl-d14 (SS)	50.0 $\mu\text{g/Kg}$	63.9 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-4

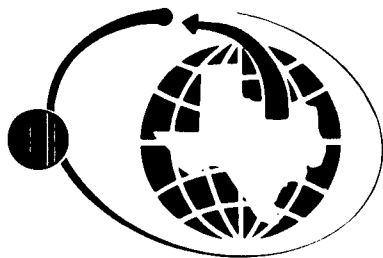
REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW4-4 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	10.0 µg/Kg	< 10.0 µg/Kg
Bromomethane	10.0 µg/Kg	< 10.0 µg/Kg
Vinyl chloride	10.0 µg/Kg	< 10.0 µg/Kg
Chloroethane	10.0 µg/Kg	< 10.0 µg/Kg
Methylene chloride	5.0 µg/Kg	< 5.0 µg/Kg
Acetone	100 µg/Kg	< 100 µg/Kg
Carbon disulfide	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
Chloroform	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
2-Butanone	100 µg/Kg	< 100 µg/Kg
1,1,1-Trichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
Carbon tetrachloride	5.0 µg/Kg	< 5.0 µg/Kg
Vinyl acetate	50.0 µg/Kg	< 50.0 µg/Kg
Bromodichloromethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloropropane	5.0 µg/Kg	< 5.0 µg/Kg
cis-1,3-Dichloropropene	5.0 µg/Kg	< 5.0 µg/Kg

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REPORT NUMBER : H91-1480-4  
ANALYSIS METHOD : EPA 8240

PAGE 2

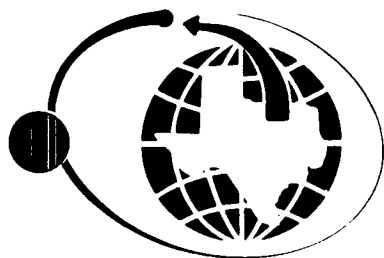
VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Trichloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorodibromomethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2-Trichloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Benzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
trans-1,3-Dichloropropene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Bromoform	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
2-Chloroethylvinyl ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$
4-Methyl-2-pentanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
2-Hexanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
Tetrachloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Toluene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2,2-Tetrachloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorobenzene	5.0 $\mu\text{g/kg}$	< 5.0 $\mu\text{g/kg}$
Ethylbenzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Styrene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Xylenes	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 $\mu\text{g/Kg}$	96.8 %
Toluene-d8 (SS)	50.0 $\mu\text{g/Kg}$	103 %
Bromofluorobenzene (SS)	50.0 $\mu\text{g/Kg}$	98.2 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013656



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DATE RECEIVED : 31-MAY-1991

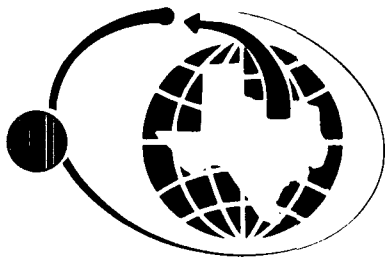
REPORT NUMBER : H91-1480-4  
REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : OW4-4 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Phenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitrophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dimethylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzoic acid	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloro-3-methylphenol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
2,4,6-Trichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4,5-Trichlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dinitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4-Nitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4,6-Dinitro-2-methylphenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Pentachlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

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REPORT NUMBER : H91-1480-4  
ANALYSIS METHOD : EPA 8270

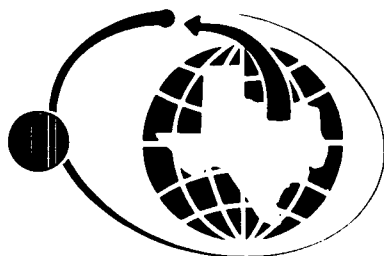
PAGE 2

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	72.1 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	73.0 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	68.7 %

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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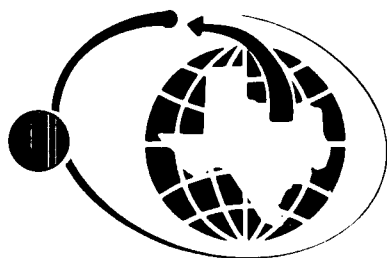
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ADDRESS : 3000 Richmond Avenue  
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SAMPLE MATRIX : SOIL  
ID MARKS : OW4-4 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Bis(2-chloroethyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,3-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,4-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzyl alcohol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
1,2-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-Chloroisopropyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
N-Nitroso-Di-N-propylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachloroethane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Nitrobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Isophorone	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-chloroethoxy)methane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,2,4-Trichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Naphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloroaniline	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Hexachlorobutadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylnaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorocyclopentadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chloronaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

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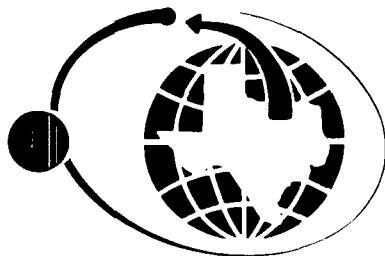
HOUSTON

REPORT NUMBER : H91-1480-4  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Dimethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Acenaphthylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,6-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Acenaphthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzofuran	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Diethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chlorophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Fluorene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
N-Nitrosodiphenylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Bromophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Phenanthrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-butylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Butyl benzyl phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3,3'-Dichlorobenzidine	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Benzo(a)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Chrysene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-ethylhexyl)phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-octylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(b)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

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REPORT NUMBER : H91-1480-4  
ANALYSIS METHOD : EPA 8270

PAGE 3

BASE-NEUTRAL EXTRACTABLE ORGANICS				
TEST REQUESTED	DETECTION LIMIT		RESULTS	
Benzo(k)fluoranthene	660	µg/Kg	< 660	µg/Kg
Benzo(a)pyrene	660	µg/Kg	< 660	µg/Kg
Indeno(1,2,3-cd)pyrene	660	µg/Kg	< 660	µg/Kg
Dibenzo(a,h)anthracene	660	µg/Kg	< 660	µg/Kg
Benzo(g,h,i)perylene	660	µg/Kg	< 660	µg/Kg

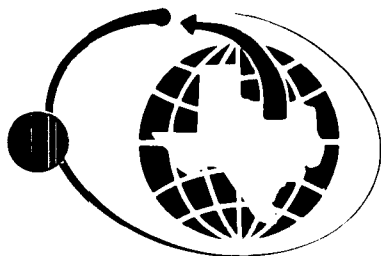
QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Nitrobenzene-d5 (SS)	50.0 µg/Kg	63.1 %
2-Fluorobiphenyl (SS)	50.0 µg/Kg	66.5 %
Terphenyl-d14 (SS)	50.0 µg/Kg	62.3 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-5

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : OW4-11 - Project #3519-010 335

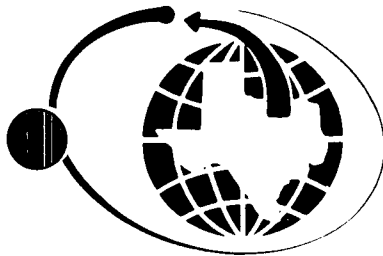
: Homco Hobbs, NM

DATE SAMPLED : 30-MAY-1991

ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	10.0 µg/Kg	< 10.0 µg/Kg
Bromomethane	10.0 µg/Kg	< 10.0 µg/Kg
Vinyl chloride	10.0 µg/Kg	< 10.0 µg/Kg
Chloroethane	10.0 µg/Kg	< 10.0 µg/Kg
Methylene chloride	5.0 µg/Kg	< 5.0 µg/Kg
Acetone	100 µg/Kg	< 100 µg/Kg
Carbon disulfide	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
Chloroform	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
2-Butanone	100 µg/Kg	< 100 µg/Kg
1,1,1-Trichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
Carbon tetrachloride	5.0 µg/Kg	< 5.0 µg/Kg
Vinyl acetate	50.0 µg/Kg	< 50.0 µg/Kg
Bromodichloromethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloropropane	5.0 µg/Kg	< 5.0 µg/Kg
cis-1,3-Dichloropropene	5.0 µg/Kg	< 5.0 µg/Kg

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REPORT NUMBER : H91-1480-5  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Trichloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorodibromomethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2-Trichloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Benzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
trans-1,3-Dichloropropene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Bromoform	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
2-Chloroethylvinyl ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$
4-Methyl-2-pentanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
2-Hexanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
Tetrachloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Toluene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2,2-Tetrachloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorobenzene	5.0 $\mu\text{g/kg}$	< 5.0 $\mu\text{g/kg}$
Ethylbenzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Styrene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Xylenes	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 $\mu\text{g/Kg}$	97.1 %
Toluene-d8 (SS)	50.0 $\mu\text{g/Kg}$	99.2 %
Bromofluorobenzene (SS)	50.0 $\mu\text{g/Kg}$	100 %

NDRC Laboratories, Inc.

*David R. Godwin (H)*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-5

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

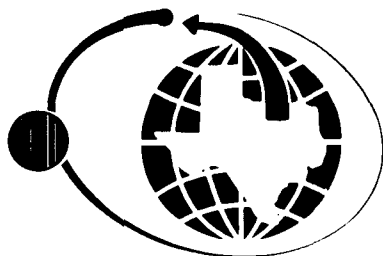
SAMPLE MATRIX : SOIL  
ID MARKS : OW4-11 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 $\mu\text{g/Kg}$

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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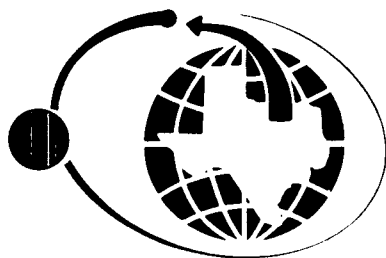
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ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS				
TEST REQUESTED	DETECTION LIMIT		RESULTS	
Phenol	660	µg/Kg	< 660	µg/Kg
2-Chlorophenol	660	µg/Kg	< 660	µg/Kg
2-Methylphenol	660	µg/Kg	< 660	µg/Kg
4-Methylphenol	660	µg/Kg	< 660	µg/Kg
2-Nitrophenol	660	µg/Kg	< 660	µg/Kg
2,4-Dimethylphenol	660	µg/Kg	< 660	µg/Kg
Benzoic acid	3300	µg/Kg	< 3300	µg/Kg
2,4-Dichlorophenol	660	µg/Kg	< 660	µg/Kg
4-Chloro-3-methylphenol	1300	µg/Kg	< 1300	µg/Kg
2,4,6-Trichlorophenol	660	µg/Kg	< 660	µg/Kg
2,4,5-Trichlorophenol	3300	µg/Kg	< 3300	µg/Kg
2,4-Dinitrophenol	3300	µg/Kg	< 3300	µg/Kg
4-Nitrophenol	3300	µg/Kg	< 3300	µg/Kg
4,6-Dinitro-2-methylphenol	3300	µg/Kg	< 3300	µg/Kg
Pentachlorophenol	3300	µg/Kg	< 3300	µg/Kg

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REPORT NUMBER : H91-1480-5  
ANALYSIS METHOD : EPA 8270

PAGE 2

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	61.6 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	59.0 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	74.9 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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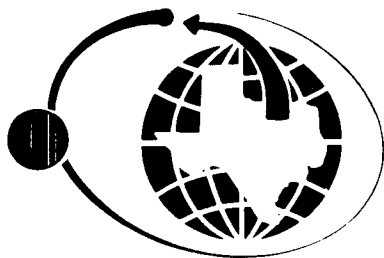
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SAMPLE MATRIX : SOIL  
ID MARKS : OW4-11 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Bis(2-chloroethyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,3-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,4-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzyl alcohol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
1,2-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-Chloroisopropyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
N-Nitroso-Di-N-propylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachloroethane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Nitrobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Isophorone	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-chloroethoxy)methane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,2,4-Trichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Naphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloroaniline	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Hexachlorobutadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylnaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorocyclopentadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chloronaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

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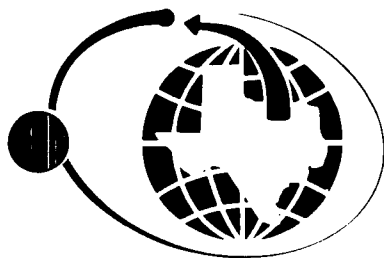
HOUSTON

REPORT NUMBER : H91-1480-5  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Dimethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Acenaphthylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,6-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Acenaphthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzofuran	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Diethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chlorophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Fluorene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
N-Nitrosodiphenylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Bromophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Phenanthrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-butylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Butyl benzyl phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3,3'-Dichlorobenzidine	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Benzo(a)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Chrysene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-ethylhexyl)phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-octylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(b)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

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DALLAS

HOUSTON

REPORT NUMBER : H91-1480-5  
ANALYSIS METHOD : EPA 8270

PAGE 3

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzo(k)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(a)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Indeno(1,2,3-cd)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzo(a,h)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(g,h,i)perylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

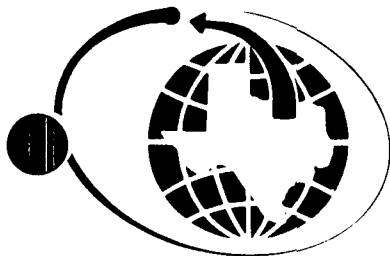
QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Nitrobenzene-d5 (SS)	50.0 $\mu\text{g/Kg}$	55.5 %
2-Fluorobiphenyl (SS)	50.0 $\mu\text{g/Kg}$	56.7 %
Terphenyl-d14 (SS)	50.0 $\mu\text{g/Kg}$	63.9 %

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Chief Executive Officer

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HOUSTON

DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-5

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

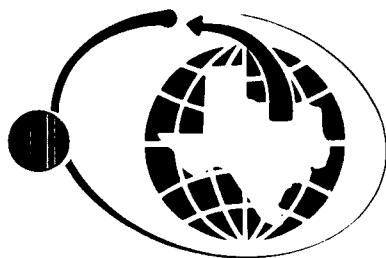
SAMPLE MATRIX : SOIL  
ID MARKS : OW4-11 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	660 $\mu\text{g/Kg}$

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-4

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

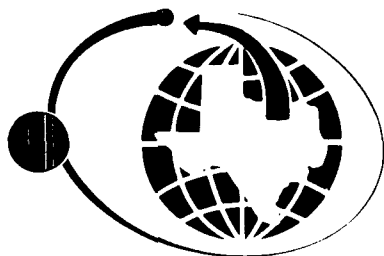
SAMPLE MATRIX : SOIL  
ID MARKS : OW4-4 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
Dodecane	23.44	VOA	18 $\mu\text{g/Kg}$
Unidentified alkane	24.44	VOA	18 $\mu\text{g/Kg}$
Tridecane	25.11	VOA	17 $\mu\text{g/Kg}$
Unidentified alkane	26.57	VOA	14 $\mu\text{g/Kg}$
Tetradecane	26.97	VOA	11 $\mu\text{g/Kg}$

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Chief Executive Officer

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-4

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

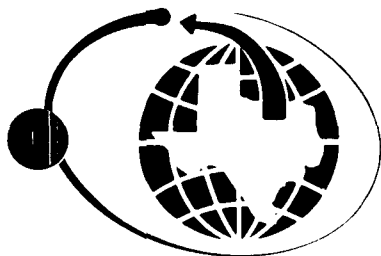
SAMPLE MATRIX : SOIL  
ID MARKS : OW4-4 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
Heneicosane	31.41	ABN	700 $\mu\text{g/Kg}$

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DATE RECEIVED : 31-MAY-1991

REPORT NUMBER : H91-1480-3

REPORT DATE : 18-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

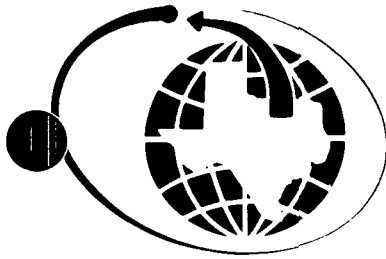
SAMPLE MATRIX : SOIL  
ID MARKS : OW3-10 - Project #3519-010 335  
: Homco Hobbs, NM  
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
Eicosane	30.31	ABN	660 $\mu\text{g/Kg}$
Heniecosane	31.41	ABN	1200 $\mu\text{g/Kg}$
Docosane	33.41	ABN	970 $\mu\text{g/Kg}$
Tricosane	34.37	ABN	670 $\mu\text{g/Kg}$
Tetracosane	35.70	ABN	1000 $\mu\text{g/Kg}$

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REPORT NUMBER : H91-1480-1  
ANALYSIS METHOD : EPA 8270

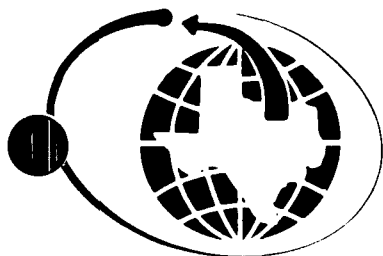
PAGE 2

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	70.0 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	67.3 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	79.5 %

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Chief Executive Officer

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DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-1

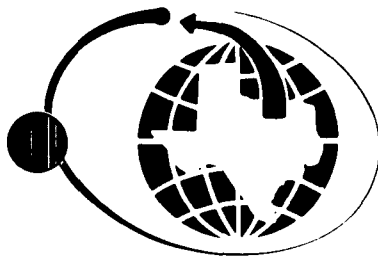
REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : LIQUID  
ID MARKS : TB4  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 3-JUN-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	10.0 µg/L	< 10.0 µg/L
Bromomethane	10.0 µg/L	< 10.0 µg/L
Vinyl chloride	10.0 µg/L	< 10.0 µg/L
Chloroethane	10.0 µg/L	< 10.0 µg/L
Methylene chloride	5.0 µg/L	< 5.0 µg/L
Acetone	100 µg/L	< 100 µg/L
Carbon disulfide	5.0 µg/L	< 5.0 µg/L
1,1-Dichloroethene	5.0 µg/L	< 5.0 µg/L
1,1-Dichloroethane	5.0 µg/L	< 5.0 µg/L
1,2-Dichloroethene	5.0 µg/L	< 5.0 µg/L
Chloroform	5.0 µg/L	< 5.0 µg/L
1,2-Dichloroethane	5.0 µg/L	< 5.0 µg/L
2-Butanone	100 µg/L	< 100 µg/L
1,1,1-Trichloroethane	5.0 µg/L	< 5.0 µg/L
Carbon tetrachloride	5.0 µg/L	< 5.0 µg/L
Vinyl acetate	50.0 µg/L	< 50.0 µg/L
Bromodichloromethane	5.0 µg/L	< 5.0 µg/L
1,2-Dichloropropane	5.0 µg/L	< 5.0 µg/L
cis-1,3-Dichloropropene	5.0 µg/L	< 5.0 µg/L

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REPORT NUMBER : H91-1507-1  
ANALYSIS METHOD : EPA 8240

PAGE 2

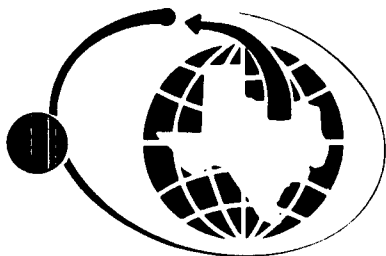
VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Trichloroethene	5.0 µg/L	< 5.0 µg/L
Chlorodibromomethane	5.0 µg/L	< 5.0 µg/L
1,1,2-Trichloroethane	5.0 µg/L	< 5.0 µg/L
Benzene	5.0 µg/L	< 5.0 µg/L
trans-1,3-Dichloropropene	5.0 µg/L	< 5.0 µg/L
Bromoform	5.0 µg/L	< 5.0 µg/L
2-Chloroethylvinyl ether	10.0 µg/L	< 10.0 µg/L
4-Methyl-2-pentanone	50.0 µg/L	< 50.0 µg/L
2-Hexanone	50.0 µg/L	< 50.0 µg/L
Tetrachloroethene	5.0 µg/L	< 5.0 µg/L
Toluene	5.0 µg/L	< 5.0 µg/L
1,1,2,2-Tetrachloroethane	5.0 µg/L	< 5.0 µg/L
Chlorobenzene	5.0 µg/L	< 5.0 µg/L
Ethylbenzene	5.0 µg/L	< 5.0 µg/L
Styrene	5.0 µg/L	< 5.0 µg/L
Xylenes	5.0 µg/L	< 5.0 µg/L

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 µg/L	95.6 %
Toluene-d8 (SS)	50.0 µg/L	93.5 %
Bromofluorobenzene (SS)	50.0 µg/L	90.1 %

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*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-1

REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : LIQUID  
ID MARKS : TB4  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 3-JUN-1991

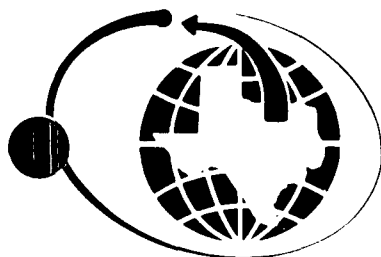
TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 µg/L

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David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-2  
REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B7-4

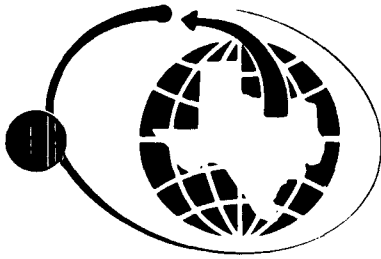
: Proj:3519-010-335/Homco 135

DATE SAMPLED : 30-MAY-1991

ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	10.0 µg/Kg	< 10.0 µg/Kg
Bromomethane	10.0 µg/Kg	< 10.0 µg/Kg
Vinyl chloride	10.0 µg/Kg	< 10.0 µg/Kg
Chloroethane	10.0 µg/Kg	< 10.0 µg/Kg
Methylene chloride	5.0 µg/Kg	16.0 µg/Kg
Acetone	100 µg/Kg	186 µg/Kg
Carbon disulfide	5.0 µg/Kg	5.4 µg/Kg
1,1-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
Chloroform	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
2-Butanone	100 µg/Kg	< 100 µg/Kg
1,1,1-Trichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
Carbon tetrachloride	5.0 µg/Kg	< 5.0 µg/Kg
Vinyl acetate	50.0 µg/Kg	< 50.0 µg/Kg
Bromodichloromethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloropropane	5.0 µg/Kg	< 5.0 µg/Kg
cis-1,3-Dichloropropene	5.0 µg/Kg	< 5.0 µg/Kg

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REPORT NUMBER : H91-1507-2  
ANALYSIS METHOD : EPA 8240

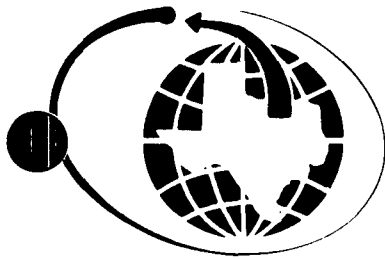
PAGE 2

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Trichloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorodibromomethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2-Trichloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Benzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
trans-1,3-Dichloropropene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Bromoform	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
2-Chloroethylvinyl ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$
4-Methyl-2-pentanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
2-Hexanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
Tetrachloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Toluene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2,2-Tetrachloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorobenzene	5.0 $\mu\text{g/kg}$	< 5.0 $\mu\text{g/kg}$
Ethylbenzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Styrene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Xylenes	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 $\mu\text{g/Kg}$	110.0 %
Toluene-d8 (SS)	50.0 $\mu\text{g/Kg}$	103.0 %
Bromofluorobenzene (SS)	50.0 $\mu\text{g/Kg}$	104.0 %

NDRC Laboratories, Inc. *David R. Godwin* Kgw  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-2

REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

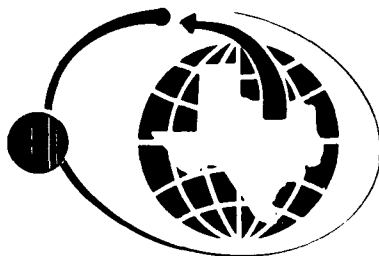
SAMPLE MATRIX : SOIL  
ID MARKS : B7-4  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

51435013687



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DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-2

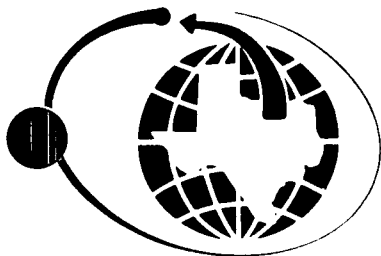
REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B7-4  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Phenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitrophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dimethylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzoic acid	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloro-3-methylphenol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
2,4,6-Trichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4,5-Trichlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dinitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4-Nitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4,6-Dinitro-2-methylphenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Pentachlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

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HOUSTON

REPORT NUMBER : H91-1507-2  
ANALYSIS METHOD : EPA 8270

PAGE 2

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	75.0 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	73.4 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	57.6 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 4-JUN-1991

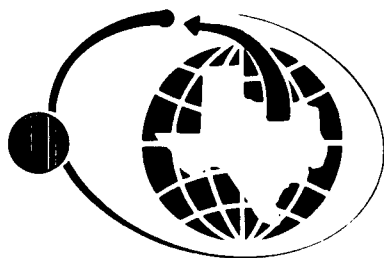
REPORT NUMBER : H91-1507-2  
REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B7-4  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Bis(2-chloroethyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,3-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,4-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzyl alcohol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
1,2-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-Chloroisopropyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
N-Nitroso-Di-N-propylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachloroethane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Nitrobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Isophorone	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-chloroethoxy)methane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,2,4-Trichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Naphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloroaniline	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Hexachlorobutadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylnaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorocyclopentadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chloronaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

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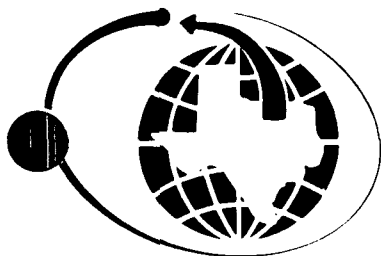
HOUSTON

REPORT NUMBER : H91-1507-2  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Dimethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Acenaphthylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,6-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Acenaphthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzofuran	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Diethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chlorophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Fluorene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
N-Nitrosodiphenylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Bromophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Phenanthrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-butylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Butyl benzyl phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3,3'-Dichlorobenzidine	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Benzo(a)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Chrysene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-ethylhexyl)phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-octylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(b)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

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REPORT NUMBER : H91-1507-2  
ANALYSIS METHOD : EPA 8270

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BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzo(k)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(a)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Indeno(1,2,3-cd)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzo(a,h)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(g,h,i)perylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Nitrobenzene-d5 (SS)	50.0 $\mu\text{g/Kg}$	61.7 %
2-Fluorobiphenyl (SS)	50.0 $\mu\text{g/Kg}$	57.4 %
Terphenyl-d14 (SS)	50.0 $\mu\text{g/Kg}$	78.6 %

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-2

REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B7-4

: Proj:3519-010-335/Homco 135

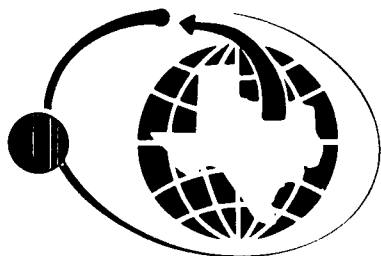
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	660 $\mu\text{g/Kg}$

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-3

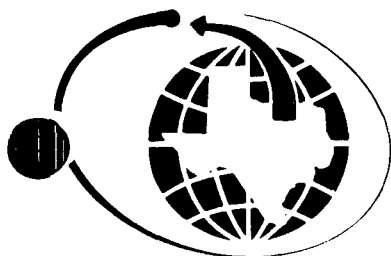
REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B8-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8240

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	10.0 µg/Kg	< 10.0 µg/Kg
Bromomethane	10.0 µg/Kg	< 10.0 µg/Kg
Vinyl chloride	10.0 µg/Kg	< 10.0 µg/Kg
Chloroethane	10.0 µg/Kg	< 10.0 µg/Kg
Methylene chloride	5.0 µg/Kg	12.5 µg/Kg
Acetone	100 µg/Kg	< 100 µg/Kg
Carbon disulfide	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
1,1-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethene	5.0 µg/Kg	< 5.0 µg/Kg
Chloroform	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
2-Butanone	100 µg/Kg	< 100 µg/Kg
1,1,1-Trichloroethane	5.0 µg/Kg	< 5.0 µg/Kg
Carbon tetrachloride	5.0 µg/Kg	< 5.0 µg/Kg
Vinyl acetate	50.0 µg/Kg	< 50.0 µg/Kg
Bromodichloromethane	5.0 µg/Kg	< 5.0 µg/Kg
1,2-Dichloropropane	5.0 µg/Kg	< 5.0 µg/Kg
cis-1,3-Dichloropropene	5.0 µg/Kg	< 5.0 µg/Kg

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REPORT NUMBER : H91-1507-3  
ANALYSIS METHOD : EPA 8240

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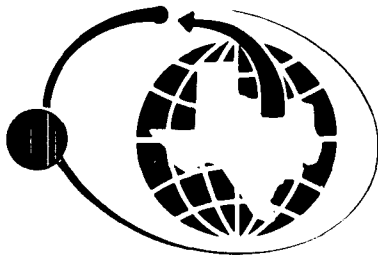
VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Trichloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorodibromomethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2-Trichloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Benzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
trans-1,3-Dichloropropene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Bromoform	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
2-Chloroethylvinyl ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$
4-Methyl-2-pentanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
2-Hexanone	50.0 $\mu\text{g/Kg}$	< 50.0 $\mu\text{g/Kg}$
Tetrachloroethene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Toluene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
1,1,2,2-Tetrachloroethane	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Chlorobenzene	5.0 $\mu\text{g/kg}$	< 5.0 $\mu\text{g/kg}$
Ethylbenzene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Styrene	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$
Xylenes	5.0 $\mu\text{g/Kg}$	< 5.0 $\mu\text{g/Kg}$

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0 $\mu\text{g/Kg}$	106.0 %
Toluene-d8 (SS)	50.0 $\mu\text{g/Kg}$	101.0 %
Bromofluorobenzene (SS)	50.0 $\mu\text{g/Kg}$	108.0 %

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-3

REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL

ID MARKS : B8-3

: Proj:3519-010-335/Homco 135

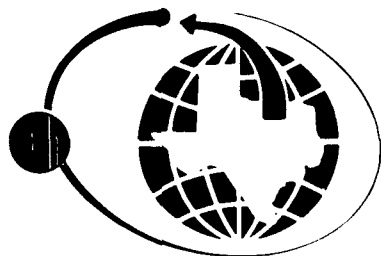
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013691



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DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-3

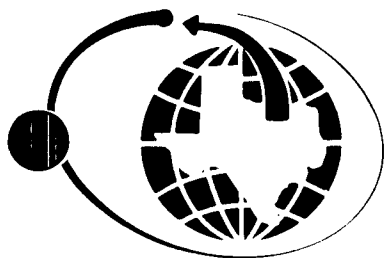
REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B8-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8270

ACID EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Phenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Methylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitrophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dimethylphenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzoic acid	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloro-3-methylphenol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
2,4,6-Trichlorophenol	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4,5-Trichlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
2,4-Dinitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4-Nitrophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
4,6-Dinitro-2-methylphenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Pentachlorophenol	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

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REPORT NUMBER : H91-1507-3  
ANALYSIS METHOD : EPA 8270

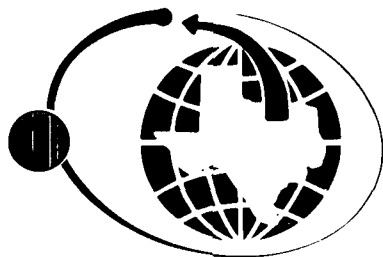
PAGE 2

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Phenol-d5 (SS)	100 $\mu\text{g/Kg}$	85.7 %
2-Fluorophenol (SS)	100 $\mu\text{g/Kg}$	83.0 %
2,4,6-Tribromophenol (SS)	100 $\mu\text{g/Kg}$	63.7 %

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Chief Executive Officer

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DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-3

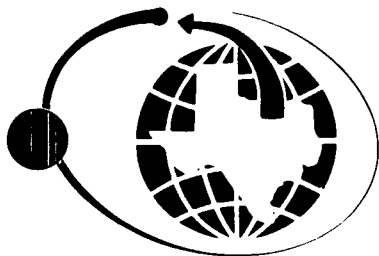
REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : B8-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8270

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Bis(2-chloroethyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,3-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,4-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzyl alcohol	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
1,2-Dichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-Chloroisopropyl)ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
N-Nitroso-Di-N-propylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachloroethane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Nitrobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Isophorone	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-chloroethoxy)methane	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
1,2,4-Trichlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Naphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chloroaniline	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Hexachlorobutadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Methylnaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorocyclopentadiene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Chloronaphthalene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$

EN135013694



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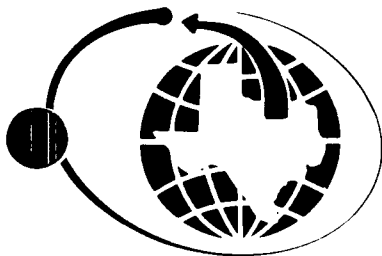
REPORT NUMBER : H91-1507-3  
ANALYSIS METHOD : EPA 8270

PAGE 2

BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Dimethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Acenaphthylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,6-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
Acenaphthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzofuran	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
2,4-Dinitrotoluene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Diethylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Chlorophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Fluorene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Nitroaniline	3300 $\mu\text{g/Kg}$	< 3300 $\mu\text{g/Kg}$
N-Nitrosodiphenylamine	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
4-Bromophenylphenyl ether	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Hexachlorobenzene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Phenanthrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-butylphthalate	660 $\mu\text{g/Kg}$	1100 $\mu\text{g/Kg}$
Fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Butyl benzyl phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
3,3'-Dichlorobenzidine	1300 $\mu\text{g/Kg}$	< 1300 $\mu\text{g/Kg}$
Benzo(a)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Chrysene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Bis(2-ethylhexyl)phthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Di-n-octylphthalate	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(b)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

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HOUSTON

REPORT NUMBER : H91-1507-3  
ANALYSIS METHOD : EPA 8270

PAGE 3

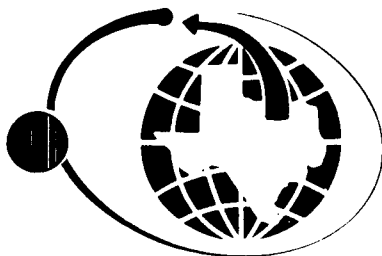
BASE-NEUTRAL EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzo(k)fluoranthene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(a)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Indeno(1,2,3-cd)pyrene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Dibenzo(a,h)anthracene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$
Benzo(g,h,i)perylene	660 $\mu\text{g/Kg}$	< 660 $\mu\text{g/Kg}$

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Nitrobenzene-d5 (SS)	50.0 $\mu\text{g/Kg}$	71.4 %
2-Fluorobiphenyl (SS)	50.0 $\mu\text{g/Kg}$	65.0 %
Terphenyl-d14 (SS)	50.0 $\mu\text{g/Kg}$	82.5 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-3

REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

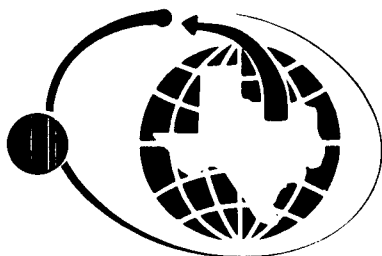
SAMPLE MATRIX : SOIL  
ID MARKS : B8-3  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 30-MAY-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	660 $\mu\text{g/Kg}$

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*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 4-JUN-1991

REPORT NUMBER : H91-1507-4

REPORT DATE : 27-JUN-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : SOIL  
ID MARKS : C1  
: Proj:3519-010-335/Homco 135  
DATE SAMPLED : 30-MAY-1991  
ANALYSIS METHOD : EPA 8020

TCLP VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzene	0.0010 mg/L	0.0020 mg/L

NDRC Laboratories, Inc.

*David R. Godwin Kgw*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013698

3E  
SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NDRC Laboratories Inc.

Project: 1507

Matrix Spike COE Sample No.: 1-4

Level: LOW

COMPOUND	SPIKE ADDED ( $\mu\text{g/Kg}$ )	SAMPLE CONC. ( $\mu\text{g/Kg}$ )	MS CONC. ( $\mu\text{g/Kg}$ )	MS % REC. #	QC LIMITS REC.
Phenol	3330.00	0.0	2940.00	88	26- 90
2-Chlorophenol	3330.00	0.0	2760.00	83	25-102
1,4-Dichlorobenzene	1670.00	0.0	1300.00	78	28-104
N-Nitroso-di-n-prop(1)	1670.00	0.0	1450.00	87	41-128
1,2,4-Trichlorobenzene	1670.00	0.0	1150.00	69	38-107
4-Chloro-3-methylphenol	3330.00	0.0	2860.00	86	26-103
Acenaphthene	1670.00	0.0	1400.00	84	31-137
4-Nitrophenol	3330.00	0.0	2790.00	84	11-114
2,4-Dinitrotoluene	1670.00	0.0	1250.00	75	28- 89
Pentachlorophenol	3330.00	0.0	2710.00	81	17-109
Pyrene	1670.00	0.0	1640.00	98	35-142

COMPOUND	SPIKE ADDED ( $\mu\text{g/Kg}$ )	MSD CONC. ( $\mu\text{g/Kg}$ )	MSD % REC. #	% RPD #	QC LIMITS RPD REC.
Phenol	3330.00	3150.00	94 *	6	35 26- 90
2-Chlorophenol	3330.00	2820.00	84	1	50 25-102
1,4-Dichlorobenzene	1670.00	1330.00	80	2	27 28-104
N-Nitroso-di-n-prop(1)	1670.00	1500.00	90	3	38 38-126
1,2,4-Trichlorobenzene	1670.00	1180.00	71	2	23 38-107
4-Chloro-3-methylphenol	3330.00	2960.00	89	3	33 26-103
Acenaphthene	1670.00	1400.00	84	0	19 31-137
4-Nitrophenol	3330.00	2990.00	90	6	50 11-114
2,4-Dinitrotoluene	1670.00	1230.00	74	1	47 28- 89
Pentachlorophenol	3330.00	2810.00	84	3	47 17-109
Pyrene	1670.00	1630.00	98	0	35 35-142

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 6 outside of limits

Spike Recovery: 0 out of 12 outside of limits

COMMENTS: \_\_\_\_\_

3A

## WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NDRC Laboratories Inc.  
 Lab Sample Number: 1-4

Project: 1507  
 Level: low

COMPOUND	SPIKE ADDED ( $\mu\text{g/L}$ )	SAMPLE CONC. ( $\mu\text{g/L}$ )	MS CONC. ( $\mu\text{g/L}$ )	MS % REC. #	QC LIMITS REC.
1,1-Dichloroethene__	100.00	0.00	95.90	97	61-145
Trichloroethene_____	100.00	4.29	106.00	102	71-120
Benzene_____	100.00	0.00	98.10	98	76-127
Toluene_____	100.00	1.70	90.80	89	76-125
Chlorobenzene_____	100.00	0.00	96.50	97	75-130

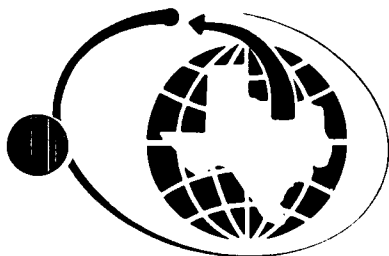
COMPOUND	SPIKE ADDED ( $\mu\text{g/L}$ )	MSD CONC. ( $\mu\text{g/L}$ )	MSD % REC. #	% RPD #	RPD	QC LIMITS REC.
1,1-Dichloroethene__	100.00	104.00	104	7	14	61-145
Trichloroethene_____	100.00	111.00	106	4	14	71-120
Benzene_____	100.00	101.00	101	3	11	76-127
Toluene_____	100.00	95.10	94	5	13	76-125
Chlorobenzene_____	100.00	102.00	102	5	13	75-130

# Column to be used to flag recovery and RPD values with an asterisk  
 \* Values outside of QC limits

RPD: 0 out of 5 outside of limits

Spike Recovery: 0 out of 10 outside of limits

COMMENTS: SW-846 METHOD 8240



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HOUSTON

DATE RECEIVED: 6/4/91

REPORT NUMBER: H91 1507-4

REPORT DATE: 6/27/91

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ATTENTION: Mr. Dave Dorrance

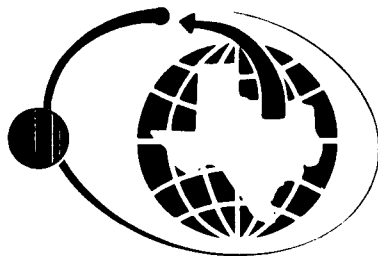
LABORATORY ANALYSIS  
QUALITY CONTROL REPORT

ANALYSIS: Benzene  
Technician: KSG  
Date Sampled: 6/3/91  
Extraction Date: 6/14/91  
Date Analyzed: 6/20/91  
QC Date: 6/20/91  
QC Sample Number: 1733-1

Analysis Method: EPA 8020  
Extraction Method: 1311  
MS/MSD RPD: 9%  
Average Spike Recovery: 93%  
Duplicate RPD: ---  
Method Blank: < 1 µg/L  
Blank Spike Recovery: 96%

EN135013701





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HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-1

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: LIQUID

ID MARKS: TB4

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Methyl Tertiary Butyl Ether

Methyl Tertiary Butyl Ether

5.0


µg/L

<

5.0

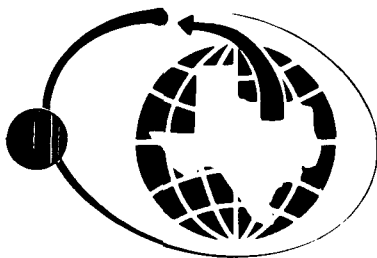
µg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-2

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B7-4

Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether		
Methyl Tertiary Butyl Ether	10.0 µg/Kg	< 10.0 µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-2

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B7-4

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

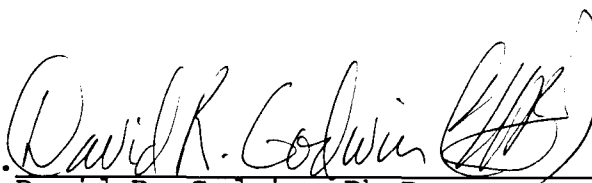
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Total Solids

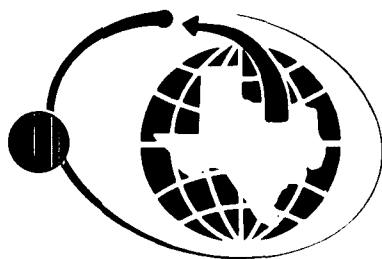
1.0 %

86.0 %

NDRC Laboratories, Inc.

  
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Chief Executive Officer

EN135013705



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DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-3

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B7-6

Proj:3519-010-335/Homco 135

---

## TEST REQUESTED

## DETECTION LIMIT

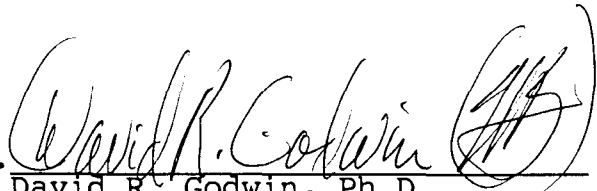
## RESULTS

---

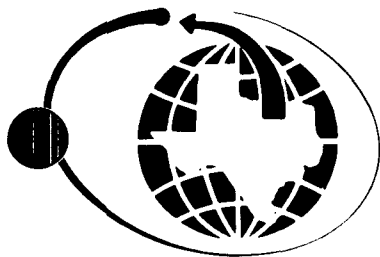
### BTEX Analysis

Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

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Chief Executive Officer

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DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-3

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B7-6

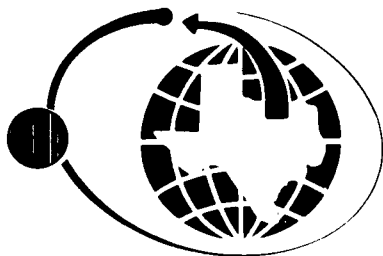
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether		
Methyl Tertiary Butyl Ether	10.0 $\mu\text{g/Kg}$	< 10.0 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin*  
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Chief Executive Officer

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HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-3

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B7-6

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Recoverable Petroleum Hydrocarbons

Total Petroleum Hydrocarbon

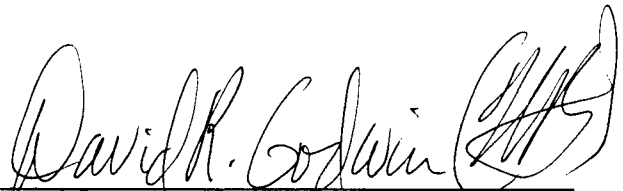
10

mg/Kg

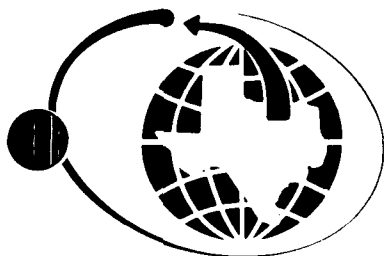
21

mg/Kg

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Chief Executive Officer

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HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-3

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B7-6

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Solids

1.0 %

89.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED: 4-JUN-1991


REPORT NUMBER: H91-1506-4  
REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

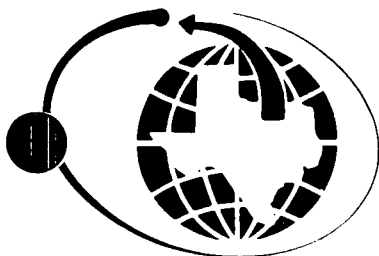
SAMPLE MATRIX: SOIL  
ID MARKS: B8-3  
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT	RESULTS
Methyl Tertiary Butyl Ether		
Methyl Tertiary Butyl Ether	10.0 µg/Kg	< 10.0 µg/Kg

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013710



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HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-4

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B8-3

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

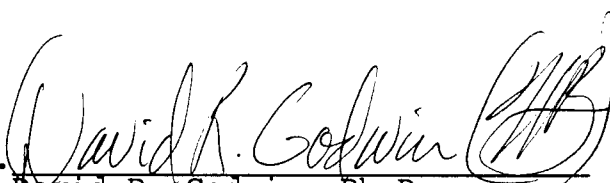
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Total Solids

1.0 %

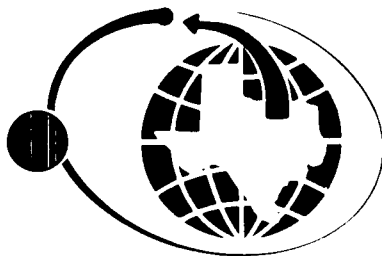
86.0 %

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Chief Executive Officer

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DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-5

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B8-4

Proj:3519-010-335/Homco 135

---

## TEST REQUESTED

## DETECTION LIMIT

## RESULTS

---

### BTEX Analysis

Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013712



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DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-5

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B8-4

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Methyl Tertiary Butyl Ether

Methyl Tertiary Butyl Ether

10.0

µg/Kg

<

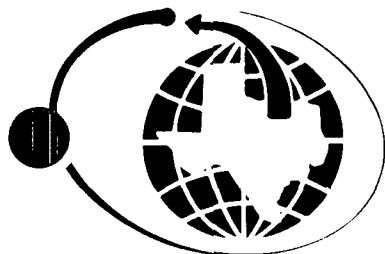
10.0

µg/Kg

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013713



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-5

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B8-4

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Recoverable Petroleum Hydrocarbons

Total Petroleum Hydrocarbon

10

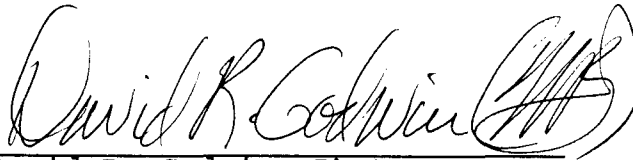
mg/Kg

<

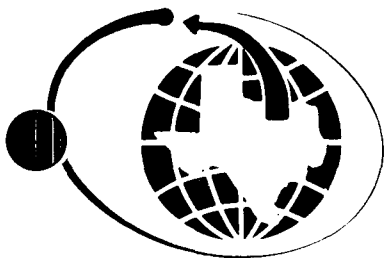
10

mg/Kg

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David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013714



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HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-5

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B8-4

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS


---

Total Solids

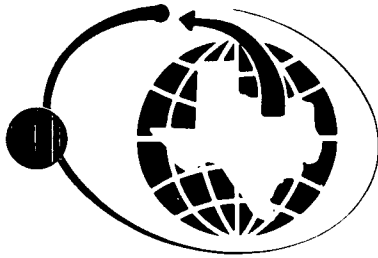
1.0 %

62.0 %

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David R. Godwin, Ph.D.  
Chief Executive Officer

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DALLAS

HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-6

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B8-5

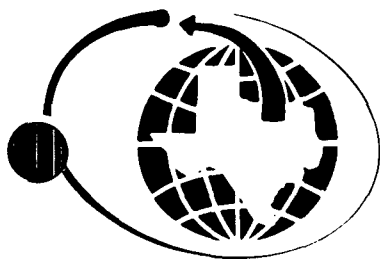
Proj:3519-010-335/Homco 135

TEST REQUESTED	DETECTION LIMIT			RESULTS	
BTEX Analysis					
Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg	<	2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg	<	2.0	µg/Kg

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Chief Executive Officer

FN135013716



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DALLAS

HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-6

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B8-5

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Methyl Tertiary Butyl Ether

Methyl Tertiary Butyl Ether

10.0

µg/Kg

<

10.0

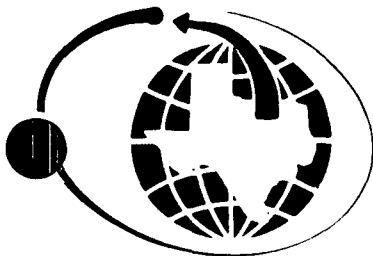
µg/Kg

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*David R. Godwin*  
David R. Godwin, Ph.D.

Chief Executive Officer

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HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-6

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B8-5

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Recoverable Petroleum Hydrocarbons

Total Petroleum Hydrocarbon

10

mg/Kg

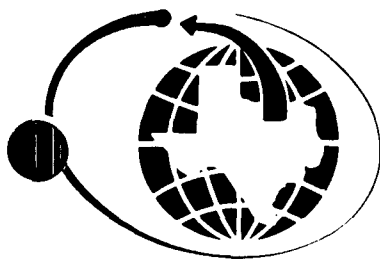
39

mg/Kg

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Chief Executive Officer

EN135013718



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DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-6

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: B8-5

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Solids

1.0 %

86.0 %

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.

Chief Executive Officer

EN135013719





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DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-7

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: C1

Proj:3519-010-335/Homco 135

---

## TEST REQUESTED

## DETECTION LIMIT

## RESULTS

---

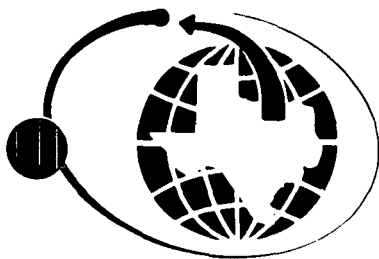
### BTEX Analysis

Benzene	2.0	µg/Kg	<	2.0	µg/Kg
Toluene	2.0	µg/Kg		2.0	µg/Kg
Ethyl benzene	2.0	µg/Kg	<	2.0	µg/Kg
Xylenes	2.0	µg/Kg		2.0	µg/Kg

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David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-7

REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering

ADDRESS: 3000 Richmond Avenue

Houston, TX 77098

ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL

ID MARKS: C1

Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

---

Total Recoverable Petroleum Hydrocarbons

Total Petroleum Hydrocarbon

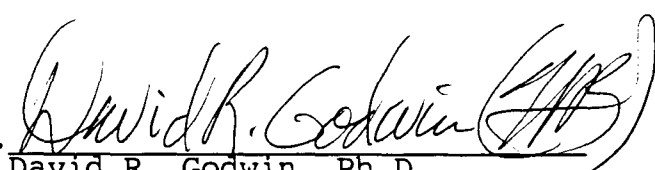
10

mg/Kg

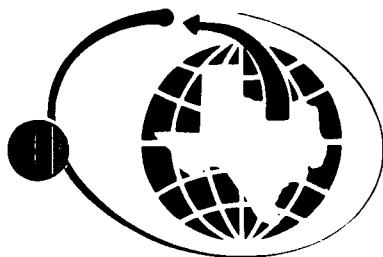
191

mg/Kg

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David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013721



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HOUSTON

DATE RECEIVED: 4-JUN-1991

REPORT NUMBER: H91-1506-7  
REPORT DATE: 7-JUN-1991

SAMPLE SUBMITTED BY: ENSR Consulting & Engineering  
ADDRESS: 3000 Richmond Avenue  
Houston, TX 77098  
ATTENTION: Mr. Dave Dorrance

SAMPLE MATRIX: SOIL  
ID MARKS: C1  
Proj:3519-010-335/Homco 135

---

TEST REQUESTED

DETECTION LIMIT

RESULTS

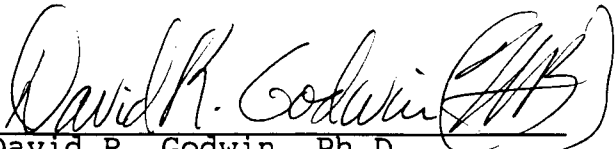
---

Total Solids

1.0 %

85.0 %

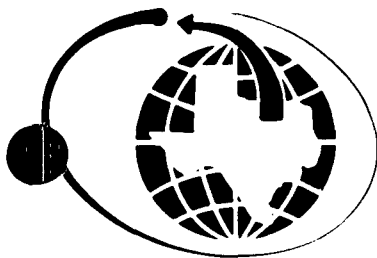
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David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013722



**APPENDIX J**  
**GROUNDWATER ANALYTICAL REPORTS**



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**BEAUMONT**

**DALLAS**

**HOUSTON**

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-1

REPORT DATE : 16-AUG-1991

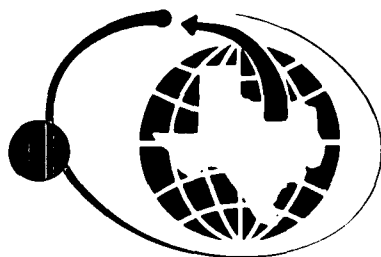
SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : EB  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

---

NOTES: QC REPORT REQUIRED

**EN135012965**



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-1

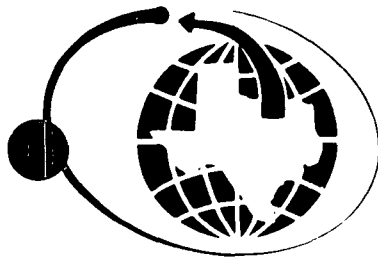
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : EB  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 524

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzene	0.50 µg/L	< 0.50 µg/L
Bromobenzene	0.50 µg/L	< 0.50 µg/L
Bromoform	0.50 µg/L	< 0.50 µg/L
Bromomethane	0.50 µg/L	< 0.50 µg/L
n-Butylbenzene	0.50 µg/L	< 0.50 µg/L
sec-Butylbenzene	0.50 µg/L	< 0.50 µg/L
tert-Butylbenzene	0.50 µg/L	< 0.50 µg/L
Carbon tetrachloride	0.50 µg/L	< 0.50 µg/L
Chlorobenzene	0.50 µg/L	< 0.50 µg/L
Chlorobromomethane	0.50 µg/L	< 0.50 µg/L
Chlorodibromomethane	0.50 µg/L	< 0.50 µg/L
2-Chloroethylvinyl ether	0.50 µg/L	< 0.50 µg/L
Chloroethane	0.50 µg/L	< 0.50 µg/L
Chloroform	0.50 µg/L	< 0.50 µg/L
1-Chlorohexane	0.50 µg/L	< 0.50 µg/L
Chloromethane	0.50 µg/L	< 0.50 µg/L
2-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
4-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
1,2-Dibromo-3-Chloropropane	0.50 µg/L	< 0.50 µg/L

EN135013262



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DALLAS

HOUSTON

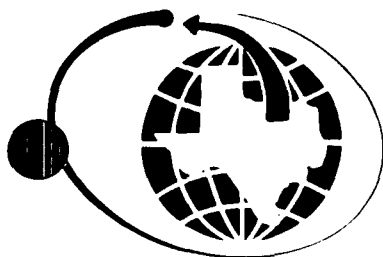
REPORT NUMBER : H91-2063-1  
ANALYSIS METHOD : EPA 524

PAGE 2

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
1,2-Dibromoethane	0.50 µg/L	< 0.50 µg/L
Dibromomethane	0.50 µg/L	< 0.50 µg/L
Dichlorobromomethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,3-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,4-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
Dichlorodifluoromethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethene	0.50 µg/L	< 0.50 µg/L
cis-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
trans-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
1,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,3-Dichloropropane	0.50 µg/L	< 0.50 µg/L
2,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloropropene	0.50 µg/L	< 0.50 µg/L
cis-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
trans-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
Ethylbenzene	0.50 µg/L	< 0.50 µg/L
Ethylene dibromide	0.50 µg/L	< 0.50 µg/L
Hexachlorobutadiene	0.50 µg/L	< 0.50 µg/L
Isopropylbenzene	0.50 µg/L	< 0.50 µg/L
p-Isopropyl toluene	0.50 µg/L	< 0.50 µg/L
Methylene chloride	0.50 µg/L	< 0.50 µg/L
Naphthalene	0.50 µg/L	< 0.50 µg/L
n-Propylbenzene	0.50 µg/L	< 0.50 µg/L

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HOUSTON

REPORT NUMBER : H91-2063-1  
ANALYSIS METHOD : EPA 524

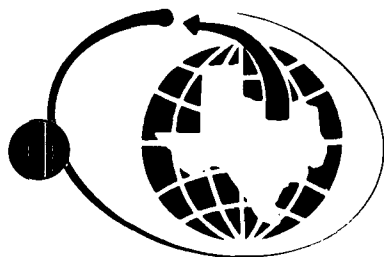
PAGE 3

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Styrene	0.50 µg/L	< 0.50 µg/L
1,1,1,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
Tetrachloroethene	0.50 µg/L	< 0.50 µg/L
Toluene	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,2,4-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,1,1-Trichloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2-Trichloroethane	0.50 µg/L	< 0.50 µg/L
Trichloroethene	0.50 µg/L	< 0.50 µg/L
Trichlorofluoromethane	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichloropropane	0.50 µg/L	< 0.50 µg/L
1,2,4-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
1,3,5-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
Vinyl chloride	0.50 µg/L	< 0.50 µg/L
m-Xylene	0.50 µg/L	< 0.50 µg/L
o-Xylene	0.50 µg/L	< 0.50 µg/L
p-Xylene	0.50 µg/L	< 0.50 µg/L
Methyl-t-butyl ether		< 0.50 µg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013264



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DALLAS

HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-1

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER

ID MARKS : EB

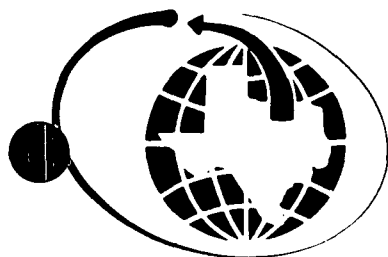
: Proj:3519-010-235/Homco 135

DATE SAMPLED : 18-JUL-1991

ANALYSIS METHOD : EPA 525

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Acenaphthylene	0.1 µg/L	< 0.1 µg/L
Aldrin	0.1 µg/L	< 0.1 µg/L
Anthracene	0.04 µg/L	< 0.04 µg/L
Atrazine	0.1 µg/L	< 0.1 µg/L
Benz(a)anthracene	0.04 µg/L	< 0.04 µg/L
Benzo(b)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(K)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(a)pyrene	0.04 µg/L	< 0.04 µg/L
Benzo(g,h,i)perylene	0.1 µg/L	< 0.1 µg/L
Butylbenzylphthalate	0.3 µg/L	< 0.3 µg/L
Alpha-chlordane	0.2 µg/L	< 0.2 µg/L
Gamma-chlordane	0.1 µg/L	< 0.1 µg/L
Trans-nonachlor	0.3 µg/L	< 0.3 µg/L
2-Chlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Chrysene	0.04 µg/L	< 0.04 µg/L
Dibenz(a,h)anthracene	0.1 µg/L	< 0.1 µg/L
Di-n-butylphthalate	0.3 µg/L	< 0.3 µg/L
2,3-Dichlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Diethylphthalate	0.8 µg/L	< 0.8 µg/L

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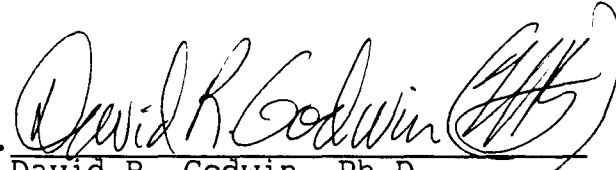
HOUSTON

REPORT NUMBER : H91-2063-1  
ANALYSIS METHOD : EPA 525

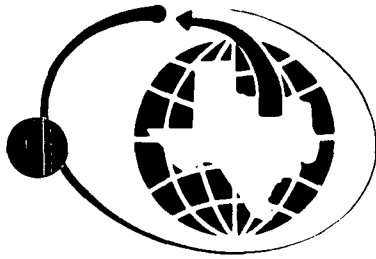
PAGE 2

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Di(2-ethylhexyl)phthalate	0.6 µg/L	< 0.6 µg/L
Di(2-ethylhexyl)adipate	0.6 µg/L	< 0.6 µg/L
Dimethylphthalate	0.04 µg/L	< 0.04 µg/L
Endrin	0.5 µg/L	< 0.5 µg/L
Fluorene	0.2 µg/L	< 0.2 µg/L
Heptachlor	0.04 µg/L	< 0.04 µg/L
Heptachlor epoxide	0.2 µg/L	< 0.2 µg/L
2,2',3,3',4,4',6-heptachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorobenzene	0.1 µg/L	< 0.1 µg/L
2,2',4,4',5,6'-hexachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorocyclopentadiene	0.06 µg/L	< 0.06 µg/L
Indeno(1,2,3,c,d)pyrene	0.1 µg/L	< 0.1 µg/L
Lindane	0.1 µg/L	< 0.1 µg/L
Methoxychlor	0.04 µg/L	< 0.04 µg/L
2,2',3,3',4,5',6,6'-octachlorobiphenyl	0.2 µg/L	< 0.2 µg/L
2,2',3',4,6-pentachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Pentachlorophenol	0.3 µg/L	< 0.3 µg/L
Phenanthrene	0.01 µg/L	< 0.01 µg/L
Pyrene	0.02 µg/L	< 0.02 µg/L
Simazine	0.2 µg/L	< 0.2 µg/L
2,2',4,4'-tetrachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Toxaphene	5.0 µg/L	< 5.0 µg/L
2,4,5-trichlorobiphenyl	0.06 µg/L	< 0.06 µg/L
Alachlor	0.16 µg/L	< 0.16 µg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013266



# NDRC LABORATORIES, INC.

A member of the Inchcape Environmental Group

11155 South Main, Houston, Texas 77025 • (713) 661-8150 • FAX (713) 661-2661

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HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-1

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : EB  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 µg/L

NDRC Laboratories, Inc.

*David R. Godwin (GAB)*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135J13267



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HOUSTON

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REPORT NUMBER : H91-2063-1

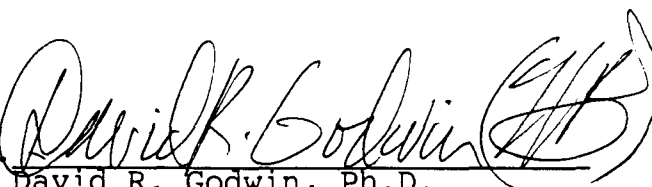
REPORT DATE : 28-AUG-1991

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ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : EB  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	10 µg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

FN125012268



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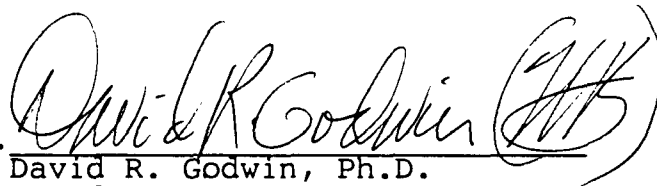
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : EB  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	1.0 mg/L	< 1.0 mg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-2

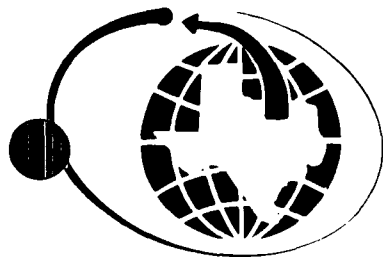
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : TB  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 524

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzene	0.50 µg/L	< 0.50 µg/L
Bromobenzene	0.50 µg/L	< 0.50 µg/L
Bromoform	0.50 µg/L	< 0.50 µg/L
Bromomethane	0.50 µg/L	< 0.50 µg/L
n-Butylbenzene	0.50 µg/L	< 0.50 µg/L
sec-Butylbenzene	0.50 µg/L	< 0.50 µg/L
tert-Butylbenzene	0.50 µg/L	< 0.50 µg/L
Carbon tetrachloride	0.50 µg/L	< 0.50 µg/L
Chlorobenzene	0.50 µg/L	< 0.50 µg/L
Chlorobromomethane	0.50 µg/L	< 0.50 µg/L
Chlorodibromomethane	0.50 µg/L	< 0.50 µg/L
2-Chloroethylvinyl ether	0.50 µg/L	< 0.50 µg/L
Chloroethane	0.50 µg/L	< 0.50 µg/L
Chloroform	0.50 µg/L	< 0.50 µg/L
1-Chlorohexane	0.50 µg/L	< 0.50 µg/L
Chloromethane	0.50 µg/L	< 0.50 µg/L
2-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
4-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
1,2-Dibromo-3-Chloropropane	0.50 µg/L	< 0.50 µg/L

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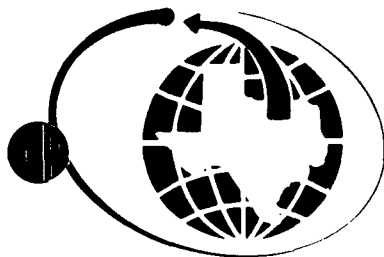
REPORT NUMBER : H91-2063-2  
ANALYSIS METHOD : EPA 524

PAGE 2

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
1,2-Dibromoethane	0.50 µg/L	< 0.50 µg/L
Dibromomethane	0.50 µg/L	< 0.50 µg/L
Dichlorobromomethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,3-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,4-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
Dichlorodifluoromethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethene	0.50 µg/L	< 0.50 µg/L
cis-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
trans-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
1,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,3-Dichloropropane	0.50 µg/L	< 0.50 µg/L
2,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloropropene	0.50 µg/L	< 0.50 µg/L
cis-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
trans-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
Ethylbenzene	0.50 µg/L	< 0.50 µg/L
Ethylene dibromide	0.50 µg/L	< 0.50 µg/L
Hexachlorobutadiene	0.50 µg/L	< 0.50 µg/L
Isopropylbenzene	0.50 µg/L	< 0.50 µg/L
p-Isopropyltoluene	0.50 µg/L	< 0.50 µg/L
Methylene chloride	0.50 µg/L	< 0.50 µg/L
Naphthalene	0.50 µg/L	< 0.50 µg/L
n-Propylbenzene	0.50 µg/L	< 0.50 µg/L

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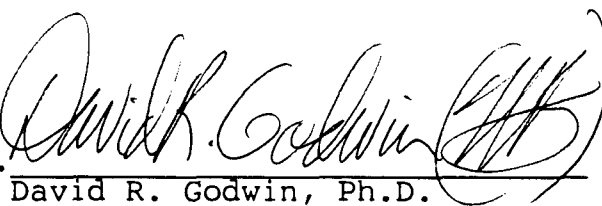
HOUSTON

REPORT NUMBER : H91-2063-2  
ANALYSIS METHOD : EPA 524

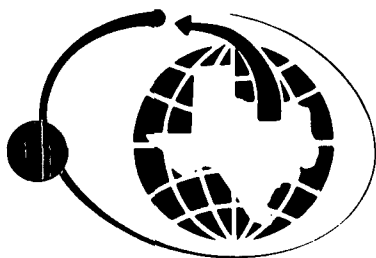
PAGE 3

VOLATILE ORGANICS			
TEST REQUESTED	DETECTION LIMIT		RESULTS
Styrene	0.50	µg/L	< 0.50 µg/L
1,1,1,2-Tetrachloroethane	0.50	µg/L	< 0.50 µg/L
1,1,2,2-Tetrachloroethane	0.50	µg/L	< 0.50 µg/L
Tetrachloroethene	0.50	µg/L	< 0.50 µg/L
Toluene	0.50	µg/L	< 0.50 µg/L
1,2,3-Trichlorobenzene	0.50	µg/L	< 0.50 µg/L
1,2,4-Trichlorobenzene	0.50	µg/L	< 0.50 µg/L
1,1,1-Trichloroethane	0.50	µg/L	< 0.50 µg/L
1,1,2-Trichloroethane	0.50	µg/L	< 0.50 µg/L
Trichloroethene	0.50	µg/L	< 0.50 µg/L
Trichlorofluoromethane	0.50	µg/L	< 0.50 µg/L
1,2,3-Trichloropropane	0.50	µg/L	< 0.50 µg/L
1,2,4-Trimethylbenzene	0.50	µg/L	< 0.50 µg/L
1,3,5-Trimethylbenzene	0.50	µg/L	< 0.50 µg/L
Vinyl chloride	0.50	µg/L	< 0.50 µg/L
m-Xylene	0.50	µg/L	< 0.50 µg/L
o-Xylene	0.50	µg/L	< 0.50 µg/L
p-Xylene	0.50	µg/L	< 0.50 µg/L
Methyl-t-butyl ether			< 0.50 µg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-2

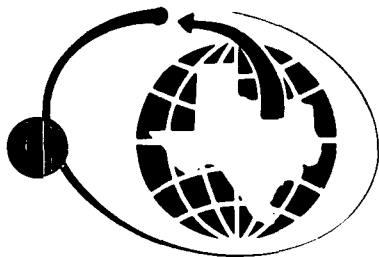
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : TB  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 525

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Acenaphthylene	0.1 µg/L	< 0.1 µg/L
Aldrin	0.1 µg/L	< 0.1 µg/L
Anthracene	0.04 µg/L	< 0.04 µg/L
Atrazine	0.1 µg/L	< 0.1 µg/L
Benz(a)anthracene	0.04 µg/L	< 0.04 µg/L
Benzo(b)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(K)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(a)pyrene	0.04 µg/L	< 0.04 µg/L
Benzo(g,h,i)perylene	0.1 µg/L	< 0.1 µg/L
Butylbenzylphthalate	0.3 µg/L	< 0.3 µg/L
Alpha-chlordane	0.2 µg/L	< 0.2 µg/L
Gamma-chlordane	0.1 µg/L	< 0.1 µg/L
Trans-nonachlor	0.3 µg/L	< 0.3 µg/L
2-Chlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Chrysene	0.04 µg/L	< 0.04 µg/L
Dibenz(a,h)anthracene	0.1 µg/L	< 0.1 µg/L
Di-n-butylphthalate	0.3 µg/L	< 0.3 µg/L
2,3-Dichlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Diethylphthalate	0.8 µg/L	< 0.8 µg/L

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REPORT NUMBER : H91-2063-2  
ANALYSIS METHOD : EPA 525

PAGE 2

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Di(2-ethylhexyl)phthalate	0.6 µg/L	< 0.6 µg/L
Di(2-ethylhexyl)adipate	0.6 µg/L	< 0.6 µg/L
Dimethylphthalate	0.04 µg/L	< 0.04 µg/L
Endrin	0.5 µg/L	< 0.5 µg/L
Fluorene	0.2 µg/L	< 0.2 µg/L
Heptachlor	0.04 µg/L	< 0.04 µg/L
Heptachlor epoxide	0.2 µg/L	< 0.2 µg/L
2,2',3,3',4,4',6-heptachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorobenzene	0.1 µg/L	< 0.1 µg/L
2,2',4,4',5,6'-hexachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorocyclopentadiene	0.06 µg/L	< 0.06 µg/L
Indeno(1,2,3,c,d)pyrene	0.1 µg/L	< 0.1 µg/L
Lindane	0.1 µg/L	< 0.1 µg/L
Methoxychlor	0.04 µg/L	< 0.04 µg/L
2,2',3,3',4,5',6,6'-octachlorobiphenyl	0.2 µg/L	< 0.2 µg/L
2,2',3',4,6-pentachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Pentachlorophenol	0.3 µg/L	< 0.3 µg/L
Phenanthrene	0.01 µg/L	< 0.01 µg/L
Pyrene	0.02 µg/L	< 0.02 µg/L
Simazine	0.2 µg/L	< 0.2 µg/L
2,2',4,4'-tetrachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Toxaphene	5.0 µg/L	< 5.0 µg/L
2,4,5-trichlorobiphenyl	0.06 µg/L	< 0.06 µg/L
Alachlor	0.16 µg/L	< 0.16 µg/L

NDRC Laboratories, Inc.

David R. Godwin, Ph.D.  
Chief Executive Officer

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REPORT DATE : 28-AUG-1991

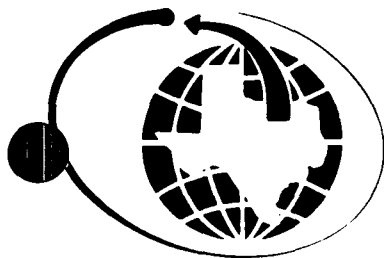
SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : TB  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer  
EN135013275



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ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : TB  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

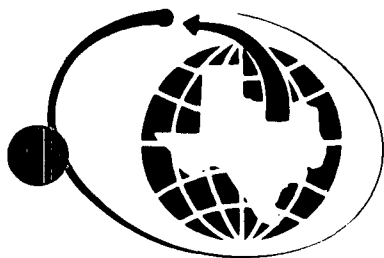
TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	10 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.

Chief Executive Officer

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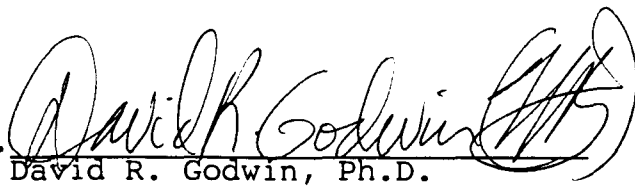
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ADDRESS : 3000 Richmond Avenue  
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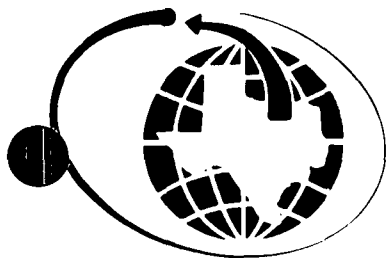
SAMPLE MATRIX : WATER  
ID MARKS : TB  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	1.0 mg/L	< 1.0 mg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-3

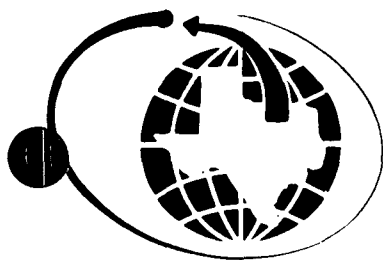
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : WS  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 524

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzene	0.50 µg/L	< 0.50 µg/L
Bromobenzene	0.50 µg/L	< 0.50 µg/L
Bromoform	0.50 µg/L	< 0.50 µg/L
Bromomethane	0.50 µg/L	< 0.50 µg/L
n-Butylbenzene	0.50 µg/L	< 0.50 µg/L
sec-Butylbenzene	0.50 µg/L	< 0.50 µg/L
tert-Butylbenzene	0.50 µg/L	< 0.50 µg/L
Carbon tetrachloride	0.50 µg/L	< 0.50 µg/L
Chlorobenzene	0.50 µg/L	< 0.50 µg/L
Chlorobromomethane	0.50 µg/L	< 0.50 µg/L
Chlorodibromomethane	0.50 µg/L	< 0.50 µg/L
2-Chloroethylvinyl ether	0.50 µg/L	< 0.50 µg/L
Chloroethane	0.50 µg/L	< 0.50 µg/L
Chloroform	0.50 µg/L	< 0.50 µg/L
1-Chlorohexane	0.50 µg/L	< 0.50 µg/L
Chloromethane	0.50 µg/L	< 0.50 µg/L
2-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
4-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
1,2-Dibromo-3-Chloropropane	0.50 µg/L	< 0.50 µg/L

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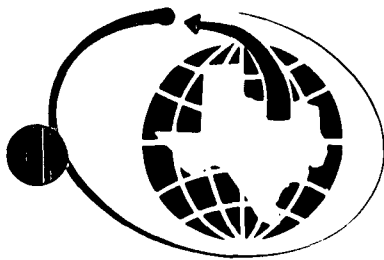
REPORT NUMBER : H91-2063-3  
ANALYSIS METHOD : EPA 524

PAGE 2

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
1,2-Dibromoethane	0.50 µg/L	< 0.50 µg/L
Dibromomethane	0.50 µg/L	< 0.50 µg/L
Dichlorobromomethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,3-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,4-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
Dichlorodifluoromethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethene	0.50 µg/L	< 0.50 µg/L
cis-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
trans-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
1,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,3-Dichloropropane	0.50 µg/L	< 0.50 µg/L
2,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloropropene	0.50 µg/L	< 0.50 µg/L
cis-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
trans-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
Ethylbenzene	0.50 µg/L	< 0.50 µg/L
Ethylene dibromide	0.50 µg/L	< 0.50 µg/L
Hexachlorobutadiene	0.50 µg/L	< 0.50 µg/L
Isopropylbenzene	0.50 µg/L	< 0.50 µg/L
p-Isopropyltoluene	0.50 µg/L	< 0.50 µg/L
Methylene chloride	0.50 µg/L	< 0.50 µg/L
Naphthalene	0.50 µg/L	< 0.50 µg/L
n-Propylbenzene	0.50 µg/L	< 0.50 µg/L

EN135013279





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DALLAS


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REPORT NUMBER : H91-2063-3  
ANALYSIS METHOD : EPA 524

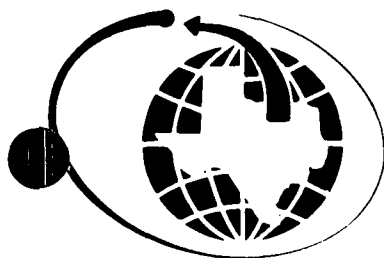
PAGE 3

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Styrene	0.50 µg/L	< 0.50 µg/L
1,1,1,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
Tetrachloroethene	0.50 µg/L	< 0.50 µg/L
Toluene	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,2,4-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,1,1-Trichloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2-Trichloroethane	0.50 µg/L	< 0.50 µg/L
Trichloroethene	0.50 µg/L	< 0.50 µg/L
Trichlorofluoromethane	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichloropropane	0.50 µg/L	< 0.50 µg/L
1,2,4-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
1,3,5-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
Vinyl chloride	0.50 µg/L	< 0.50 µg/L
m-Xylene	0.50 µg/L	< 0.50 µg/L
o-Xylene	0.50 µg/L	< 0.50 µg/L
p-Xylene	0.50 µg/L	< 0.50 µg/L
Methyl-t-butyl ether		< 0.50 µg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013280



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HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-3

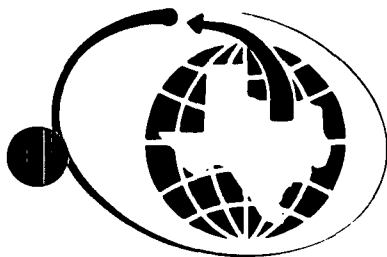
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : WS  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 525

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Acenaphthylene	0.1 µg/L	< 0.1 µg/L
Aldrin	0.1 µg/L	< 0.1 µg/L
Anthracene	0.04 µg/L	< 0.04 µg/L
Atrazine	0.1 µg/L	< 0.1 µg/L
Benz(a)anthracene	0.04 µg/L	< 0.04 µg/L
Benzo(b)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(K)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(a)pyrene	0.04 µg/L	< 0.04 µg/L
Benzo(g,h,i)perylene	0.1 µg/L	< 0.1 µg/L
Butylbenzylphthalate	0.3 µg/L	< 0.3 µg/L
Alpha-chlordane	0.2 µg/L	< 0.2 µg/L
Gamma-chlordane	0.1 µg/L	< 0.1 µg/L
Trans-nonachlor	0.3 µg/L	< 0.3 µg/L
2-Chlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Chrysene	0.04 µg/L	< 0.04 µg/L
Dibenz(a,h)anthracene	0.1 µg/L	< 0.1 µg/L
Di-n-butylphthalate	0.3 µg/L	< 0.3 µg/L
2,3-Dichlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Diethylphthalate	0.8 µg/L	< 0.8 µg/L

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REPORT NUMBER : H91-2063-3  
ANALYSIS METHOD : EPA 525

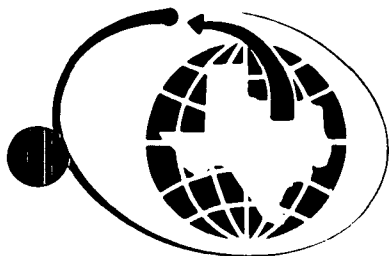
PAGE 2

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Di(2-ethylhexyl)phthalate	0.6 µg/L	< 0.6 µg/L
Di(2-ethylhexyl)adipate	0.6 µg/L	< 0.6 µg/L
Dimethylphthalate	0.04 µg/L	< 0.04 µg/L
Endrin	0.5 µg/L	< 0.5 µg/L
Fluorene	0.2 µg/L	< 0.2 µg/L
Heptachlor	0.04 µg/L	< 0.04 µg/L
Heptachlor epoxide	0.2 µg/L	< 0.2 µg/L
2,2',3,3',4,4',6-heptachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorobenzene	0.1 µg/L	< 0.1 µg/L
2,2',4,4',5,6'-hexachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorocyclopentadiene	0.06 µg/L	< 0.06 µg/L
Indeno(1,2,3,c,d)pyrene	0.1 µg/L	< 0.1 µg/L
Lindane	0.1 µg/L	< 0.1 µg/L
Methoxychlor	0.04 µg/L	< 0.04 µg/L
2,2',3,3',4,5',6,6'-octachlorobiphenyl	0.2 µg/L	< 0.2 µg/L
2,2',3',4,6-pentachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Pentachlorophenol	0.3 µg/L	< 0.3 µg/L
Phenanthrene	0.01 µg/L	< 0.01 µg/L
Pyrene	0.02 µg/L	< 0.02 µg/L
Simazine	0.2 µg/L	< 0.2 µg/L
2,2',4,4'-tetrachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Toxaphene	5.0 µg/L	< 5.0 µg/L
2,4,5-trichlorobiphenyl	0.06 µg/L	< 0.06 µg/L
Alachlor	0.16 µg/L	< 0.16 µg/L

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-3

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

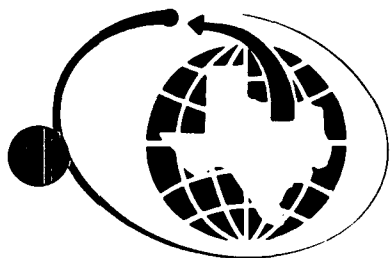
SAMPLE MATRIX : WATER  
ID MARKS : WS  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 $\mu\text{g/L}$

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-3

REPORT DATE : 28-AUG-1991

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ADDRESS : 3000 Richmond Avenue  
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ATTENTION : Mr. Dave Dorrance

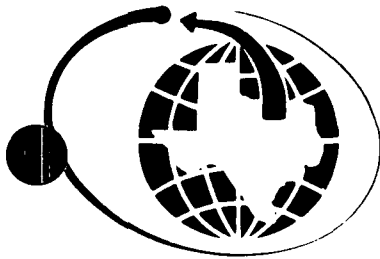
SAMPLE MATRIX : WATER  
ID MARKS : WS  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	10 $\mu\text{g/L}$

NDRC Laboratories, Inc.

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David R. Godwin, Ph.D.  
Chief Executive Officer

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REPORT NUMBER : H91-2063-3

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ADDRESS : 3000 Richmond Avenue  
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ATTENTION : Mr. Dave Dorrance

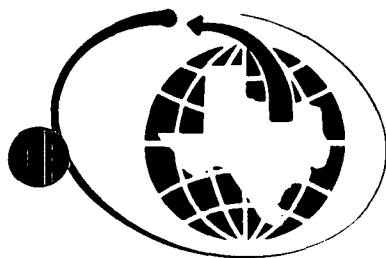
SAMPLE MATRIX : WATER  
ID MARKS : WS  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	1.0 mg/L	< 1.0 mg/L

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*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN115012185



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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-4

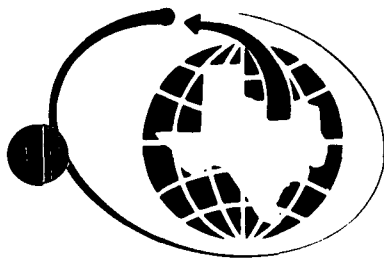
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : OW1  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 524

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzene	0.50 µg/L	< 0.50 µg/L
Bromobenzene	0.50 µg/L	< 0.50 µg/L
Bromoform	0.50 µg/L	< 0.50 µg/L
Bromomethane	0.50 µg/L	< 0.50 µg/L
n-Butylbenzene	0.50 µg/L	< 0.50 µg/L
sec-Butylbenzene	0.50 µg/L	< 0.50 µg/L
tert-Butylbenzene	0.50 µg/L	< 0.50 µg/L
Carbon tetrachloride	0.50 µg/L	< 0.50 µg/L
Chlorobenzene	0.50 µg/L	< 0.50 µg/L
Chlorobromomethane	0.50 µg/L	< 0.50 µg/L
Chlorodibromomethane	0.50 µg/L	< 0.50 µg/L
2-Chloroethylvinyl ether	0.50 µg/L	< 0.50 µg/L
Chloroethane	0.50 µg/L	< 0.50 µg/L
Chloroform	0.50 µg/L	< 0.50 µg/L
1-Chlorohexane	0.50 µg/L	< 0.50 µg/L
Chloromethane	0.50 µg/L	< 0.50 µg/L
2-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
4-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
1,2-Dibromo-3-Chloropropane	0.50 µg/L	< 0.50 µg/L

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REPORT NUMBER : H91-2063-4  
ANALYSIS METHOD : EPA 524

PAGE 2

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
1,2-Dibromoethane	0.50 µg/L	< 0.50 µg/L
Dibromomethane	0.50 µg/L	< 0.50 µg/L
Dichlorobromomethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,3-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,4-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
Dichlorodifluoromethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethene	0.50 µg/L	< 0.50 µg/L
cis-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
trans-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
1,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,3-Dichloropropane	0.50 µg/L	< 0.50 µg/L
2,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloropropene	0.50 µg/L	< 0.50 µg/L
cis-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
trans-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
Ethylbenzene	0.50 µg/L	< 0.50 µg/L
Ethylene dibromide	0.50 µg/L	< 0.50 µg/L
Hexachlorobutadiene	0.50 µg/L	< 0.50 µg/L
Isopropylbenzene	0.50 µg/L	< 0.50 µg/L
p-Isopropyltoluene	0.50 µg/L	< 0.50 µg/L
Methylene chloride	0.50 µg/L	< 0.50 µg/L
Naphthalene	0.50 µg/L	< 0.50 µg/L
n-Propylbenzene	0.50 µg/L	< 0.50 µg/L

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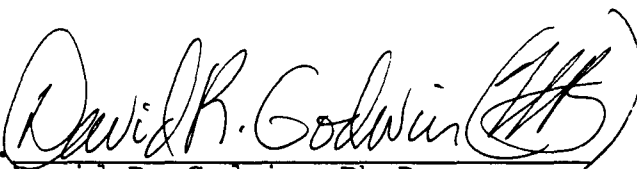
HOUSTON

REPORT NUMBER : H91-2063-4  
ANALYSIS METHOD : EPA 524

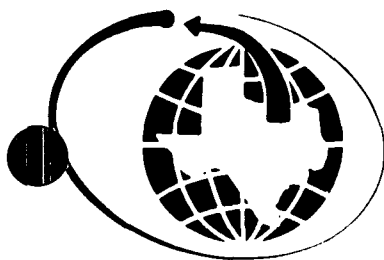
PAGE 3

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Styrene	0.50 µg/L	< 0.50 µg/L
1,1,1,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
Tetrachloroethene	0.50 µg/L	< 0.50 µg/L
Toluene	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,2,4-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,1,1-Trichloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2-Trichloroethane	0.50 µg/L	< 0.50 µg/L
Trichloroethene	0.50 µg/L	< 0.50 µg/L
Trichlorofluoromethane	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichloropropane	0.50 µg/L	< 0.50 µg/L
1,2,4-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
1,3,5-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
Vinyl chloride	0.50 µg/L	< 0.50 µg/L
m-Xylene	0.50 µg/L	< 0.50 µg/L
o-Xylene	0.50 µg/L	< 0.50 µg/L
p-Xylene	0.50 µg/L	< 0.50 µg/L
Methyl-t-butyl ether		< 0.50 µg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-4

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : OW1  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 525

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Acenaphthylene	0.1 µg/L	< 0.1 µg/L
Aldrin	0.1 µg/L	< 0.1 µg/L
Anthracene	0.04 µg/L	< 0.04 µg/L
Atrazine	0.1 µg/L	< 0.1 µg/L
Benz(a)anthracene	0.04 µg/L	< 0.04 µg/L
Benzo(b)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(K)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(a)pyrene	0.04 µg/L	0.86 µg/L
Benzo(g,h,i)perylene	0.1 µg/L	1.2 µg/L
Butylbenzylphthalate	0.3 µg/L	< 0.3 µg/L
Alpha-chlordane	0.2 µg/L	< 0.2 µg/L
Gamma-chlordane	0.1 µg/L	0.4 µg/L
Trans-nonachlor	0.3 µg/L	< 0.3 µg/L
2-Chlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Chrysene	0.04 µg/L	< 0.04 µg/L
Dibenz(a,h)anthracene	0.1 µg/L	1.6 µg/L
Di-n-butylphthalate	0.3 µg/L	< 0.3 µg/L
2,3-Dichlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Diethylphthalate	0.8 µg/L	< 0.8 µg/L

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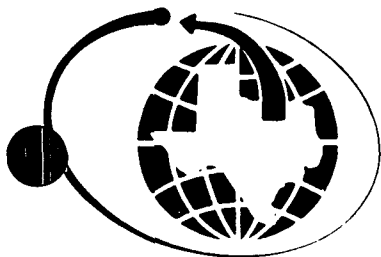
REPORT NUMBER : H91-2063-4  
ANALYSIS METHOD : EPA 525

PAGE 2

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Di(2-ethylhexyl)phthalate	0.6 µg/L	< 0.6 µg/L
Di(2-ethylhexyl)adipate	0.6 µg/L	33.4 µg/L
Dimethylphthalate	0.04 µg/L	< 0.04 µg/L
Endrin	0.5 µg/L	< 0.5 µg/L
Fluorene	0.2 µg/L	< 0.2 µg/L
Heptachlor	0.04 µg/L	0.17 µg/L
Heptachlor epoxide	0.2 µg/L	< 0.2 µg/L
2,2',3,3',4,4',6-heptachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorobenzene	0.1 µg/L	< 0.1 µg/L
2,2',4,4',5,6'-hexachlorobiphenyl	0.1 µg/L	0.4 µg/L
Hexachlorocyclopentadiene	0.06 µg/L	< 0.06 µg/L
Indeno(1,2,3,c,d)pyrene	0.1 µg/L	1.0 µg/L
Lindane	0.1 µg/L	< 0.1 µg/L
Methoxychlor	0.04 µg/L	2.00 µg/L
2,2',3,3',4,5',6,6'-octachlorobiphenyl	0.2 µg/L	< 0.2 µg/L
2,2',3',4,6-pentachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Pentachlorophenol	0.3 µg/L	< 0.3 µg/L
Phenanthrene	0.01 µg/L	< 0.01 µg/L
Pyrene	0.02 µg/L	0.76 µg/L
Simazine	0.2 µg/L	< 0.2 µg/L
2,2',4,4'-tetrachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Toxaphene	5.0 µg/L	< 5.0 µg/L
2,4,5-trichlorobiphenyl	0.06 µg/L	< 0.06 µg/L
Alachlor	0.16 µg/L	< 0.16 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer  
EN135013290



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HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-4

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

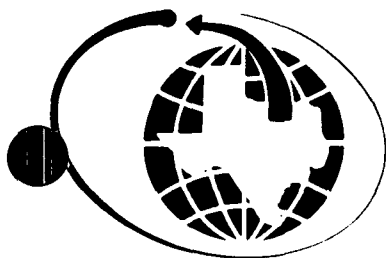
SAMPLE MATRIX : WATER  
ID MARKS : OW1  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : OW1  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	10 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-4

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER

ID MARKS : OW1

: Proj:3519-010-235/Homco 135

DATE SAMPLED : 18-JUL-1991

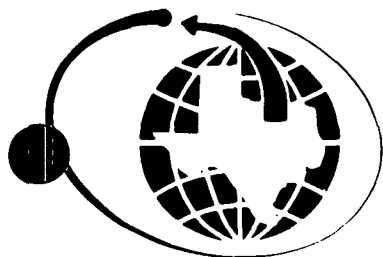
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	1.0 mg/L	< 1.0 mg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013293



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DALLAS

HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-5

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : OW1D  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 524

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzene	0.50 µg/L	< 0.50 µg/L
Bromobenzene	0.50 µg/L	< 0.50 µg/L
Bromoform	0.50 µg/L	< 0.50 µg/L
Bromomethane	0.50 µg/L	< 0.50 µg/L
n-Butylbenzene	0.50 µg/L	< 0.50 µg/L
sec-Butylbenzene	0.50 µg/L	< 0.50 µg/L
tert-Butylbenzene	0.50 µg/L	< 0.50 µg/L
Carbon tetrachloride	0.50 µg/L	< 0.50 µg/L
Chlorobenzene	0.50 µg/L	< 0.50 µg/L
Chlorobromomethane	0.50 µg/L	< 0.50 µg/L
Chlorodibromomethane	0.50 µg/L	< 0.50 µg/L
2-Chloroethylvinyl ether	0.50 µg/L	< 0.50 µg/L
Chloroethane	0.50 µg/L	< 0.50 µg/L
Chloroform	0.50 µg/L	< 0.50 µg/L
1-Chlorohexane	0.50 µg/L	< 0.50 µg/L
Chloromethane	0.50 µg/L	< 0.50 µg/L
2-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
4-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
1,2-Dibromo-3-Chloropropane	0.50 µg/L	< 0.50 µg/L

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REPORT NUMBER : H91-2063-5  
ANALYSIS METHOD : EPA 524

PAGE 2

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
1,2-Dibromoethane	0.50 µg/L	< 0.50 µg/L
Dibromomethane	0.50 µg/L	< 0.50 µg/L
Dichlorobromomethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,3-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,4-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
Dichlorodifluoromethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethene	0.50 µg/L	< 0.50 µg/L
cis-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
trans-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
1,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,3-Dichloropropane	0.50 µg/L	< 0.50 µg/L
2,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloropropene	0.50 µg/L	< 0.50 µg/L
cis-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
trans-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
Ethylbenzene	0.50 µg/L	< 0.50 µg/L
Ethylene dibromide	0.50 µg/L	< 0.50 µg/L
Hexachlorobutadiene	0.50 µg/L	< 0.50 µg/L
Isopropylbenzene	0.50 µg/L	< 0.50 µg/L
p-Isopropyltoluene	0.50 µg/L	< 0.50 µg/L
Methylene chloride	0.50 µg/L	< 0.50 µg/L
Naphthalene	0.50 µg/L	< 0.50 µg/L
n-Propylbenzene	0.50 µg/L	< 0.50 µg/L

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HOUSTON

REPORT NUMBER : H91-2063-5  
ANALYSIS METHOD : EPA 524

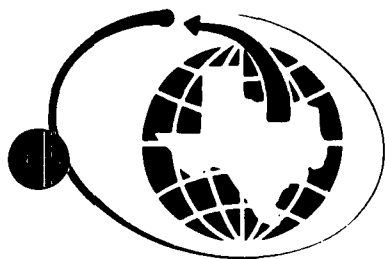
PAGE 3

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Styrene	0.50 µg/L	< 0.50 µg/L
1,1,1,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
Tetrachloroethene	0.50 µg/L	< 0.50 µg/L
Toluene	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,2,4-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,1,1-Trichloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2-Trichloroethane	0.50 µg/L	< 0.50 µg/L
Trichloroethene	0.50 µg/L	< 0.50 µg/L
Trichlorofluoromethane	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichloropropane	0.50 µg/L	< 0.50 µg/L
1,2,4-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
1,3,5-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
Vinyl chloride	0.50 µg/L	< 0.50 µg/L
m-Xylene	0.50 µg/L	< 0.50 µg/L
o-Xylene	0.50 µg/L	< 0.50 µg/L
p-Xylene	0.50 µg/L	< 0.50 µg/L
Methyl-t-butyl ether		< 0.50 µg/L

NDRCL Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135.12292



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HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-5

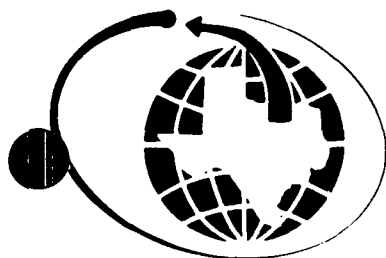
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : OW1D  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 525

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Acenaphthylene	0.1 µg/L	< 0.1 µg/L
Aldrin	0.1 µg/L	< 0.1 µg/L
Anthracene	0.04 µg/L	< 0.04 µg/L
Atrazine	0.1 µg/L	< 0.1 µg/L
Benz(a)anthracene	0.04 µg/L	< 0.04 µg/L
Benzo(b)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(K)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(a)pyrene	0.04 µg/L	< 0.04 µg/L
Benzo(g,h,i)perylene	0.1 µg/L	< 0.1 µg/L
Butylbenzylphthalate	0.3 µg/L	< 0.3 µg/L
Alpha-chlordane	0.2 µg/L	< 0.2 µg/L
Gamma-chlordane	0.1 µg/L	< 0.1 µg/L
Trans-nonachlor	0.3 µg/L	< 0.3 µg/L
2-Chlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Chrysene	0.04 µg/L	< 0.04 µg/L
Dibenz(a,h)anthracene	0.1 µg/L	< 0.1 µg/L
Di-n-butylphthalate	0.3 µg/L	< 0.3 µg/L
2,3-Dichlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Diethylphthalate	0.8 µg/L	< 0.8 µg/L

EN135013297



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REPORT NUMBER : H91-2063-5  
ANALYSIS METHOD : EPA 525

PAGE 2

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Di(2-ethylhexyl)phthalate	0.6 µg/L	< 0.6 µg/L
Di(2-ethylhexyl)adipate	0.6 µg/L	2.5 µg/L
Dimethylphthalate	0.04 µg/L	< 0.04 µg/L
Endrin	0.5 µg/L	< 0.5 µg/L
Fluorene	0.2 µg/L	< 0.2 µg/L
Heptachlor	0.04 µg/L	< 0.04 µg/L
Heptachlor epoxide	0.2 µg/L	< 0.2 µg/L
2,2',3,3',4,4',6-heptachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorobenzene	0.1 µg/L	< 0.1 µg/L
2,2',4,4',5,6'-hexachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorocyclopentadiene	0.06 µg/L	< 0.06 µg/L
Indeno(1,2,3,c,d)pyrene	0.1 µg/L	< 0.1 µg/L
Lindane	0.1 µg/L	< 0.1 µg/L
Methoxychlor	0.04 µg/L	< 0.04 µg/L
2,2',3,3',4,5',6,6'-octachlorobiphenyl	0.2 µg/L	< 0.2 µg/L
2,2',3',4,6-pentachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Pentachlorophenol	0.3 µg/L	< 0.3 µg/L
Phenanthrene	0.01 µg/L	< 0.01 µg/L
Pyrene	0.02 µg/L	< 0.02 µg/L
Simazine	0.2 µg/L	< 0.2 µg/L
2,2',4,4'-tetrachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Toxaphene	5.0 µg/L	< 5.0 µg/L
2,4,5-trichlorobiphenyl	0.06 µg/L	< 0.06 µg/L
Alachlor	0.16 µg/L	< 0.16 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013298



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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-5

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

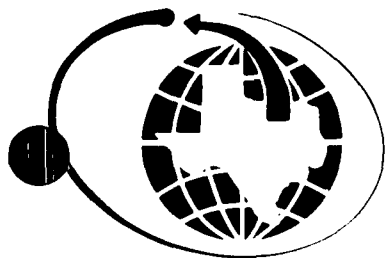
SAMPLE MATRIX : WATER  
ID MARKS : OW1D  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN125010000



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HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-5

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

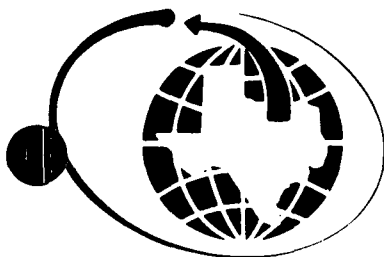
SAMPLE MATRIX : WATER  
ID MARKS : OW1D  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	10 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

FN135013300



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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-5

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

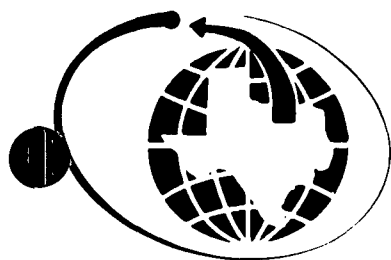
SAMPLE MATRIX : WATER  
ID MARKS : OW1D  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	1.0 mg/L	< 1.0 mg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013301



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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-6

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering

ADDRESS : 3000 Richmond Avenue

: Houston, TX 77098

ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER

ID MARKS : OW2

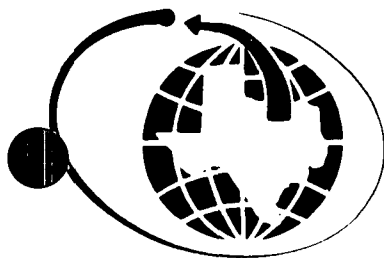
: Proj:3519-010-235/Homco 135

DATE SAMPLED : 18-JUL-1991

ANALYSIS METHOD : EPA 524

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzene	0.50 µg/L	< 0.50 µg/L
Bromobenzene	0.50 µg/L	< 0.50 µg/L
Bromoform	0.50 µg/L	< 0.50 µg/L
Bromomethane	0.50 µg/L	< 0.50 µg/L
n-Butylbenzene	0.50 µg/L	< 0.50 µg/L
sec-Butylbenzene	0.50 µg/L	< 0.50 µg/L
tert-Butylbenzene	0.50 µg/L	< 0.50 µg/L
Carbon tetrachloride	0.50 µg/L	< 0.50 µg/L
Chlorobenzene	0.50 µg/L	< 0.50 µg/L
Chlorobromomethane	0.50 µg/L	< 0.50 µg/L
Chlorodibromomethane	0.50 µg/L	< 0.50 µg/L
2-Chloroethylvinyl ether	0.50 µg/L	< 0.50 µg/L
Chloroethane	0.50 µg/L	< 0.50 µg/L
Chloroform	0.50 µg/L	< 0.50 µg/L
1-Chlorohexane	0.50 µg/L	< 0.50 µg/L
Chloromethane	0.50 µg/L	< 0.50 µg/L
2-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
4-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
1,2-Dibromo-3-Chloropropane	0.50 µg/L	< 0.50 µg/L

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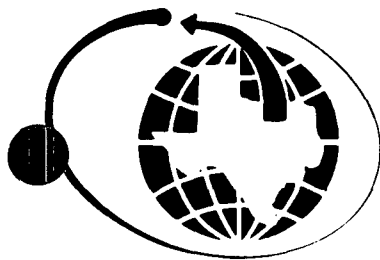
REPORT NUMBER : H91-2063-6  
ANALYSIS METHOD : EPA 524

PAGE 2

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
1,2-Dibromoethane	0.50 µg/L	< 0.50 µg/L
Dibromomethane	0.50 µg/L	< 0.50 µg/L
Dichlorobromomethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,3-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,4-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
Dichlorodifluoromethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethene	0.50 µg/L	< 0.50 µg/L
cis-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
trans-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
1,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,3-Dichloropropane	0.50 µg/L	< 0.50 µg/L
2,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloropropene	0.50 µg/L	< 0.50 µg/L
cis-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
trans-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
Ethylbenzene	0.50 µg/L	< 0.50 µg/L
Ethylene dibromide	0.50 µg/L	< 0.50 µg/L
Hexachlorobutadiene	0.50 µg/L	< 0.50 µg/L
Isopropylbenzene	0.50 µg/L	< 0.50 µg/L
p-Isopropyltoluene	0.50 µg/L	< 0.50 µg/L
Methylene chloride	0.50 µg/L	< 0.50 µg/L
Naphthalene	0.50 µg/L	< 0.50 µg/L
n-Propylbenzene	0.50 µg/L	< 0.50 µg/L

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REPORT NUMBER : H91-2063-6  
ANALYSIS METHOD : EPA 524

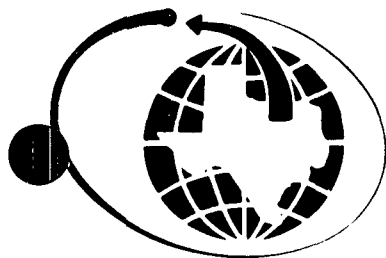
PAGE 3

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Styrene	0.50 µg/L	< 0.50 µg/L
1,1,1,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
Tetrachloroethene	0.50 µg/L	< 0.50 µg/L
Toluene	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,2,4-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,1,1-Trichloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2-Trichloroethane	0.50 µg/L	< 0.50 µg/L
Trichloroethene	0.50 µg/L	< 0.50 µg/L
Trichlorofluoromethane	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichloropropane	0.50 µg/L	< 0.50 µg/L
1,2,4-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
1,3,5-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
Vinyl chloride	0.50 µg/L	< 0.50 µg/L
m-Xylene	0.50 µg/L	< 0.50 µg/L
o-Xylene	0.50 µg/L	< 0.50 µg/L
p-Xylene	0.50 µg/L	< 0.50 µg/L
Methyl-t-butyl ether		< 0.50 µg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013304



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HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-6

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER

ID MARKS : OW2

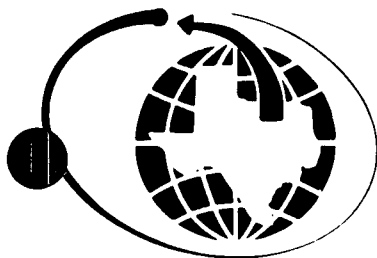
: Proj:3519-010-235/Homco 135

DATE SAMPLED : 18-JUL-1991

ANALYSIS METHOD : EPA 525

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Acenaphthylene	0.1 µg/L	< 0.1 µg/L
Aldrin	0.1 µg/L	< 0.1 µg/L
Anthracene	0.04 µg/L	< 0.04 µg/L
Atrazine	0.1 µg/L	< 0.1 µg/L
Benz(a)anthracene	0.04 µg/L	< 0.04 µg/L
Benzo(b)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(K)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(a)pyrene	0.04 µg/L	< 0.04 µg/L
Benzo(g,h,i)perylene	0.1 µg/L	< 0.1 µg/L
Butylbenzylphthalate	0.3 µg/L	< 0.3 µg/L
Alpha-chlordane	0.2 µg/L	< 0.2 µg/L
Gamma-chlordane	0.1 µg/L	< 0.1 µg/L
Trans-nonachlor	0.3 µg/L	< 0.3 µg/L
2-Chlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Chrysene	0.04 µg/L	< 0.04 µg/L
Dibenz(a,h)anthracene	0.1 µg/L	< 0.1 µg/L
Di-n-butylphthalate	0.3 µg/L	< 0.3 µg/L
2,3-Dichlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Diethylphthalate	0.8 µg/L	< 0.8 µg/L

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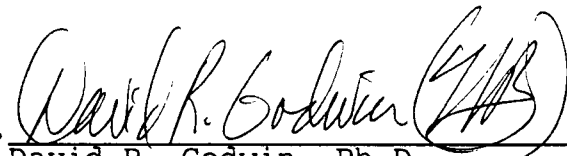
HOUSTON

REPORT NUMBER : H91-2063-6  
ANALYSIS METHOD : EPA 525

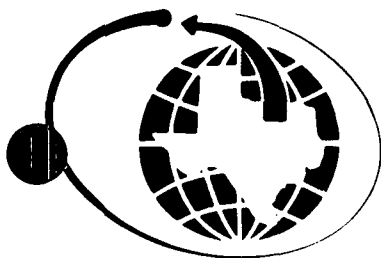
PAGE 2

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Di(2-ethylhexyl)phthalate	0.6 µg/L	< 0.6 µg/L
Di(2-ethylhexyl)adipate	0.6 µg/L	< 0.6 µg/L
Dimethylphthalate	0.04 µg/L	< 0.04 µg/L
Endrin	0.5 µg/L	< 0.5 µg/L
Fluorene	0.2 µg/L	< 0.2 µg/L
Heptachlor	0.04 µg/L	< 0.04 µg/L
Heptachlor epoxide	0.2 µg/L	< 0.2 µg/L
2,2',3,3',4,4',6-heptachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorobenzene	0.1 µg/L	< 0.1 µg/L
2,2',4,4',5,6'-hexachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorocyclopentadiene	0.06 µg/L	< 0.06 µg/L
Indeno(1,2,3,c,d)pyrene	0.1 µg/L	< 0.1 µg/L
Lindane	0.1 µg/L	< 0.1 µg/L
Methoxychlor	0.04 µg/L	< 0.04 µg/L
2,2',3,3',4,5',6,6'-octachlorobiphenyl	0.2 µg/L	< 0.2 µg/L
2,2',3',4,6-pentachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Pentachlorophenol	0.3 µg/L	< 0.3 µg/L
Phenanthrene	0.01 µg/L	< 0.01 µg/L
Pyrene	0.02 µg/L	< 0.02 µg/L
Simazine	0.2 µg/L	< 0.2 µg/L
2,2',4,4'-tetrachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Toxaphene	5.0 µg/L	< 5.0 µg/L
2,4,5-trichlorobiphenyl	0.06 µg/L	< 0.06 µg/L
Aalachlor	0.16 µg/L	< 0.16 µg/L

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David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013306



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HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-6

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

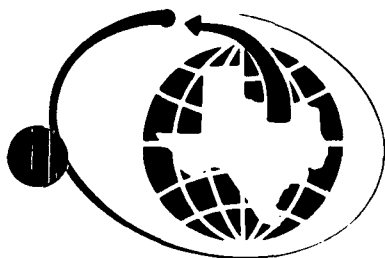
SAMPLE MATRIX : WATER  
ID MARKS : OW2  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 µg/L

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David R. Godwin, Ph.D.  
Chief Executive Officer

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HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-6

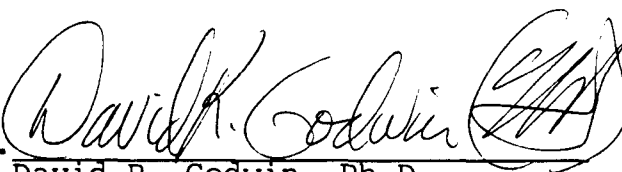
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : OW2  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	10 $\mu\text{g/L}$

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-6

REPORT DATE : 28-AUG-1991

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ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

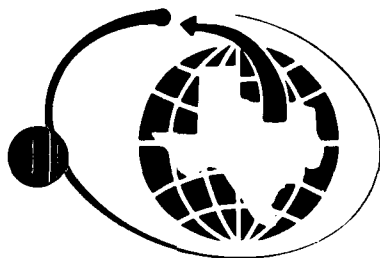
SAMPLE MATRIX : WATER  
ID MARKS : OW2  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	1.0 mg/L	< 1.0 mg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-7

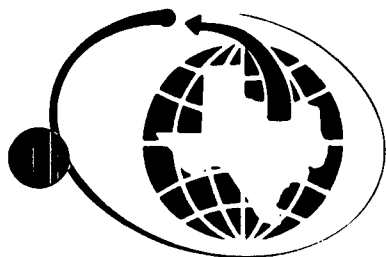
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : OW3  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 524

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Benzene	0.50 µg/L	< 0.50 µg/L
Bromobenzene	0.50 µg/L	< 0.50 µg/L
Bromoform	0.50 µg/L	< 0.50 µg/L
Bromomethane	0.50 µg/L	< 0.50 µg/L
n-Butylbenzene	0.50 µg/L	< 0.50 µg/L
sec-Butylbenzene	0.50 µg/L	< 0.50 µg/L
tert-Butylbenzene	0.50 µg/L	< 0.50 µg/L
Carbon tetrachloride	0.50 µg/L	< 0.50 µg/L
Chlorobenzene	0.50 µg/L	< 0.50 µg/L
Chlorobromomethane	0.50 µg/L	< 0.50 µg/L
Chlorodibromomethane	0.50 µg/L	< 0.50 µg/L
2-Chloroethylvinyl ether	0.50 µg/L	< 0.50 µg/L
Chloroethane	0.50 µg/L	< 0.50 µg/L
Chloroform	0.50 µg/L	< 0.50 µg/L
1-Chlorohexane	0.50 µg/L	< 0.50 µg/L
Chloromethane	0.50 µg/L	< 0.50 µg/L
2-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
4-Chlorotoluene	0.50 µg/L	< 0.50 µg/L
1,2-Dibromo-3-Chloropropane	0.50 µg/L	< 0.50 µg/L

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REPORT NUMBER : H91-2063-7  
ANALYSIS METHOD : EPA 524

PAGE 2

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
1,2-Dibromoethane	0.50 µg/L	< 0.50 µg/L
Dibromomethane	0.50 µg/L	< 0.50 µg/L
Dichlorobromomethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,3-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,4-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
Dichlorodifluoromethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethene	0.50 µg/L	< 0.50 µg/L
cis-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
trans-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
1,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,3-Dichloropropane	0.50 µg/L	< 0.50 µg/L
2,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloropropene	0.50 µg/L	< 0.50 µg/L
cis-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
trans-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
Ethylbenzene	0.50 µg/L	< 0.50 µg/L
Ethylene dibromide	0.50 µg/L	< 0.50 µg/L
Hexachlorobutadiene	0.50 µg/L	< 0.50 µg/L
Isopropylbenzene	0.50 µg/L	< 0.50 µg/L
p-Isopropyltoluene	0.50 µg/L	< 0.50 µg/L
Methylene chloride	0.50 µg/L	< 0.50 µg/L
Naphthalene	0.50 µg/L	< 0.50 µg/L
n-Propylbenzene	0.50 µg/L	< 0.50 µg/L

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REPORT NUMBER : H91-2063-7  
ANALYSIS METHOD : EPA 524

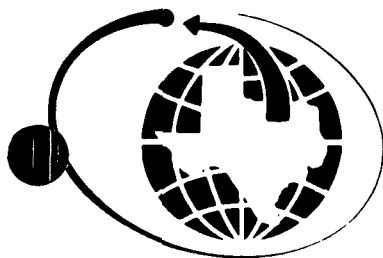
PAGE 3

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Styrene	0.50 µg/L	< 0.50 µg/L
1,1,1,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
Tetrachloroethene	0.50 µg/L	< 0.50 µg/L
Toluene	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,2,4-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,1,1-Trichloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2-Trichloroethane	0.50 µg/L	< 0.50 µg/L
Trichloroethene	0.50 µg/L	< 0.50 µg/L
Trichlorofluoromethane	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichloropropane	0.50 µg/L	< 0.50 µg/L
1,2,4-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
1,3,5-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
Vinyl chloride	0.50 µg/L	< 0.50 µg/L
m-Xylene	0.50 µg/L	< 0.50 µg/L
o-Xylene	0.50 µg/L	< 0.50 µg/L
p-Xylene	0.50 µg/L	< 0.50 µg/L
Methyl-t-butyl ether		< 0.50 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-7

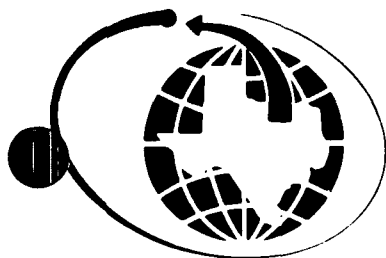
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : OW3  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 525

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Acenaphthylene	0.1 µg/L	< 0.1 µg/L
Aldrin	0.1 µg/L	< 0.1 µg/L
Anthracene	0.04 µg/L	< 0.04 µg/L
Atrazine	0.1 µg/L	< 0.1 µg/L
Benz(a)anthracene	0.04 µg/L	< 0.04 µg/L
Benzo(b)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(K)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(a)pyrene	0.04 µg/L	< 0.04 µg/L
Benzo(g,h,i)perylene	0.1 µg/L	< 0.1 µg/L
Butylbenzylphthalate	0.3 µg/L	< 0.3 µg/L
Alpha-chlordane	0.2 µg/L	< 0.2 µg/L
Gamma-chlordane	0.1 µg/L	< 0.1 µg/L
Trans-nonachlor	0.3 µg/L	< 0.3 µg/L
2-Chlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Chrysene	0.04 µg/L	< 0.04 µg/L
Dibenz(a,h)anthracene	0.1 µg/L	< 0.1 µg/L
Di-n-butylphthalate	0.3 µg/L	< 0.3 µg/L
2,3-Dichlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Diethylphthalate	0.8 µg/L	< 0.8 µg/L

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REPORT NUMBER : H91-2063-7  
ANALYSIS METHOD : EPA 525

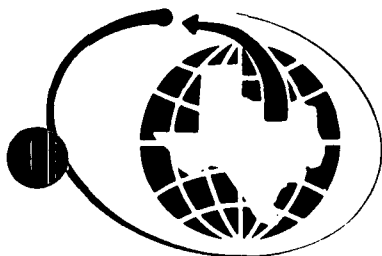
PAGE 2

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Di(2-ethylhexyl)phthalate	0.6 µg/L	< 0.6 µg/L
Di(2-ethylhexyl)adipate	0.6 µg/L	< 0.6 µg/L
Dimethylphthalate	0.04 µg/L	< 0.04 µg/L
Endrin	0.5 µg/L	1.7 µg/L
Fluorene	0.2 µg/L	< 0.2 µg/L
Heptachlor	0.04 µg/L	< 0.04 µg/L
Heptachlor epoxide	0.2 µg/L	< 0.2 µg/L
2,2',3,3',4,4',6-heptachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorobenzene	0.1 µg/L	< 0.1 µg/L
2,2',4,4',5,6'-hexachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorocyclopentadiene	0.06 µg/L	< 0.06 µg/L
Indeno(1,2,3,c,d)pyrene	0.1 µg/L	< 0.1 µg/L
Lindane	0.1 µg/L	< 0.1 µg/L
Methoxychlor	0.04 µg/L	< 0.04 µg/L
2,2',3,3',4,5',6,6'-octachlorobiphenyl	0.2 µg/L	< 0.2 µg/L
2,2',3',4,6-pentachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Pentachlorophenol	0.3 µg/L	< 0.3 µg/L
Phenanthrene	0.01 µg/L	< 0.01 µg/L
Pyrene	0.02 µg/L	< 0.02 µg/L
Simazine	0.2 µg/L	< 0.2 µg/L
2,2',4,4'-tetrachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Toxaphene	5.0 µg/L	< 5.0 µg/L
2,4,5-trichlorobiphenyl	0.06 µg/L	< 0.06 µg/L
Alachlor	0.16 µg/L	< 0.16 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013314



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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-7

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

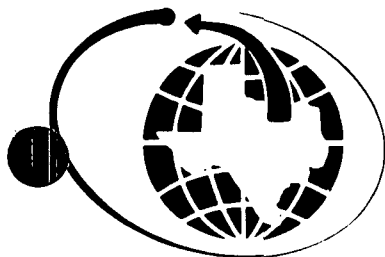
SAMPLE MATRIX : WATER  
ID MARKS : OW3  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013315



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HOUSTON

DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-7

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

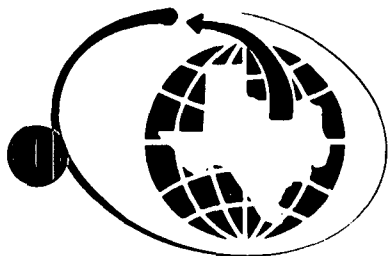
SAMPLE MATRIX : WATER  
ID MARKS : OW3  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	10 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013316



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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-7

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER

ID MARKS : OW3

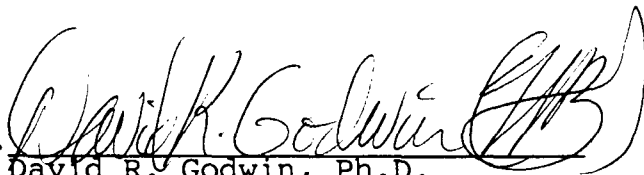
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DATE SAMPLED : 18-JUL-1991

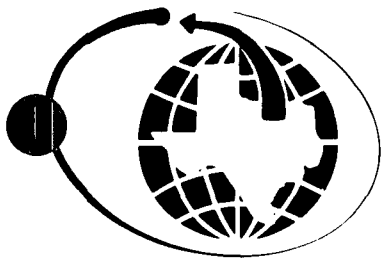
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	1.0 mg/L	< 1.0 mg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

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REPORT DATE : 28-AUG-1991

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ADDRESS : 3000 Richmond Avenue  
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ATTENTION : Mr. Dave Dorrance

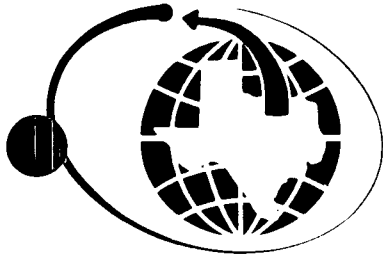
SAMPLE MATRIX : WATER  
ID MARKS : OW3  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 18-JUL-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	1.0 mg/L	< 1.0 mg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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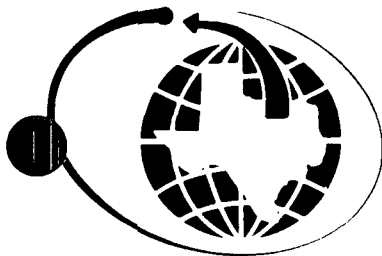
REPORT NUMBER : H91-2063-8  
ANALYSIS METHOD : EPA 524

PAGE 2

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
1,2-Dibromoethane	0.50 µg/L	< 0.50 µg/L
Dibromomethane	0.50 µg/L	< 0.50 µg/L
Dichlorobromomethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,3-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,4-Dichlorobenzene	0.50 µg/L	< 0.50 µg/L
Dichlorodifluoromethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,2-Dichloroethane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloroethene	0.50 µg/L	< 0.50 µg/L
cis-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
trans-1,2-Dichloroethene	0.50 µg/L	< 0.50 µg/L
1,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,3-Dichloropropane	0.50 µg/L	< 0.50 µg/L
2,2-Dichloropropane	0.50 µg/L	< 0.50 µg/L
1,1-Dichloropropene	0.50 µg/L	< 0.50 µg/L
cis-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
trans-1,3-Dichloropropene	0.50 µg/L	< 0.50 µg/L
Ethylbenzene	0.50 µg/L	< 0.50 µg/L
Ethylene dibromide	0.50 µg/L	< 0.50 µg/L
Hexachlorobutadiene	0.50 µg/L	< 0.50 µg/L
Isopropylbenzene	0.50 µg/L	< 0.50 µg/L
p-Isopropyl toluene	0.50 µg/L	< 0.50 µg/L
Methylene chloride	0.50 µg/L	< 0.50 µg/L
Naphthalene	0.50 µg/L	< 0.50 µg/L
n-Propylbenzene	0.50 µg/L	< 0.50 µg/L

EN135013319





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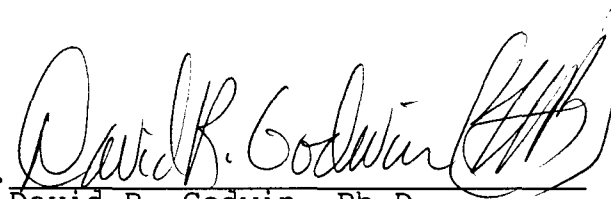
HOUSTON

REPORT NUMBER : H91-2063-8  
ANALYSIS METHOD : EPA 524

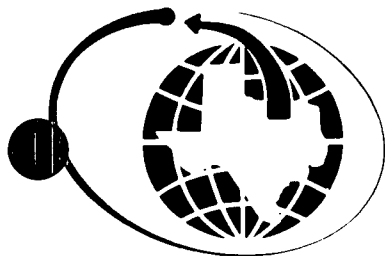
PAGE 3

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Styrene	0.50 µg/L	< 0.50 µg/L
1,1,1,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2,2-Tetrachloroethane	0.50 µg/L	< 0.50 µg/L
Tetrachloroethene	0.50 µg/L	< 0.50 µg/L
Toluene	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,2,4-Trichlorobenzene	0.50 µg/L	< 0.50 µg/L
1,1,1-Trichloroethane	0.50 µg/L	< 0.50 µg/L
1,1,2-Trichloroethane	0.50 µg/L	< 0.50 µg/L
Trichloroethene	0.50 µg/L	< 0.50 µg/L
Trichlorofluoromethane	0.50 µg/L	< 0.50 µg/L
1,2,3-Trichloropropane	0.50 µg/L	< 0.50 µg/L
1,2,4-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
1,3,5-Trimethylbenzene	0.50 µg/L	< 0.50 µg/L
Vinyl chloride	0.50 µg/L	< 0.50 µg/L
m-Xylene	0.50 µg/L	< 0.50 µg/L
o-Xylene	0.50 µg/L	< 0.50 µg/L
p-Xylene	0.50 µg/L	< 0.50 µg/L
Methyl-t-butyl ether		< 0.50 µg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-8

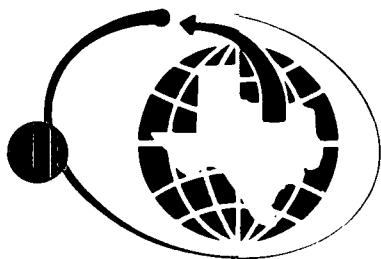
REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

SAMPLE MATRIX : WATER  
ID MARKS : OW4  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 17-JUL-1991  
ANALYSIS METHOD : EPA 525

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Acenaphthylene	0.1 µg/L	< 0.1 µg/L
Aldrin	0.1 µg/L	< 0.1 µg/L
Anthracene	0.04 µg/L	< 0.04 µg/L
Atrazine	0.1 µg/L	< 0.1 µg/L
Benz(a)anthracene	0.04 µg/L	< 0.04 µg/L
Benzo(b)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(K)fluoranthene	0.2 µg/L	< 0.2 µg/L
Benzo(a)pyrene	0.04 µg/L	< 0.04 µg/L
Benzo(g,h,i)perylene	0.1 µg/L	< 0.1 µg/L
Butylbenzylphthalate	0.3 µg/L	< 0.3 µg/L
Alpha-chlordane	0.2 µg/L	< 0.2 µg/L
Gamma-chlordane	0.1 µg/L	< 0.1 µg/L
Trans-nonachlor	0.3 µg/L	< 0.3 µg/L
2-Chlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Chrysene	0.04 µg/L	< 0.04 µg/L
Dibenz(a,h)anthracene	0.1 µg/L	< 0.1 µg/L
Di-n-butylphthalate	0.3 µg/L	< 0.3 µg/L
2,3-Dichlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Diethylphthalate	0.8 µg/L	< 0.8 µg/L

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REPORT NUMBER : H91-2063-8  
ANALYSIS METHOD : EPA 525

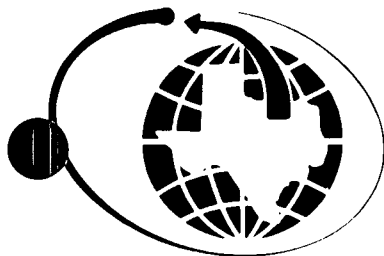
PAGE 2

SEMIVOLATILE EXTRACTABLE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Di(2-ethylhexyl)phthalate	0.6 µg/L	< 0.6 µg/L
Di(2-ethylhexyl)adipate	0.6 µg/L	< 0.6 µg/L
Dimethylphthalate	0.04 µg/L	< 0.04 µg/L
Endrin	0.5 µg/L	< 0.5 µg/L
Fluorene	0.2 µg/L	< 0.2 µg/L
Heptachlor	0.04 µg/L	< 0.04 µg/L
Heptachlor epoxide	0.2 µg/L	< 0.2 µg/L
2,2',3,3',4,4',6-heptachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorobenzene	0.1 µg/L	< 0.1 µg/L
2,2',4,4',5,6'-hexachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Hexachlorocyclopentadiene	0.06 µg/L	< 0.06 µg/L
Indeno(1,2,3,c,d)pyrene	0.1 µg/L	< 0.1 µg/L
Lindane	0.1 µg/L	< 0.1 µg/L
Methoxychlor	0.04 µg/L	< 0.04 µg/L
2,2',3,3',4,5',6,6'-octachlorobiphenyl	0.2 µg/L	< 0.2 µg/L
2,2',3',4,6-pentachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Pentachlorophenol	0.3 µg/L	< 0.3 µg/L
Phenanthrene	0.01 µg/L	< 0.01 µg/L
Pyrene	0.02 µg/L	< 0.02 µg/L
Simazine	0.2 µg/L	< 0.2 µg/L
2,2',4,4'-tetrachlorobiphenyl	0.1 µg/L	< 0.1 µg/L
Toxaphene	5.0 µg/L	< 5.0 µg/L
2,4,5-trichlorobiphenyl	0.06 µg/L	< 0.06 µg/L
Alachlor	0.16 µg/L	< 0.16 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 19-JUL-1991

REPORT NUMBER : H91-2063-8

REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

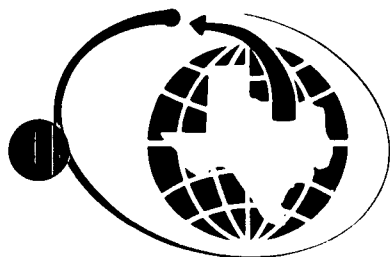
SAMPLE MATRIX : WATER  
ID MARKS : OW4  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 17-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		VOA	10 µg/L

NDRC Laboratories, Inc.

*David R. Godwin*  
David R. Godwin, Ph.D.  
Chief Executive Officer

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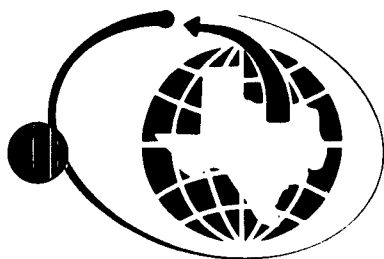
SAMPLE MATRIX : WATER  
ID MARKS : OW4  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 17-JUL-1991

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
No compounds detected above		ABN	10 $\mu\text{g/L}$

NDRC Laboratories, Inc.

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David R. Godwin, Ph.D.  
Chief Executive Officer

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DATE RECEIVED : 19-JUL-1991

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REPORT DATE : 28-AUG-1991

SAMPLE SUBMITTED BY : ENSR Consulting & Engineering  
ADDRESS : 3000 Richmond Avenue  
: Houston, TX 77098  
ATTENTION : Mr. Dave Dorrance

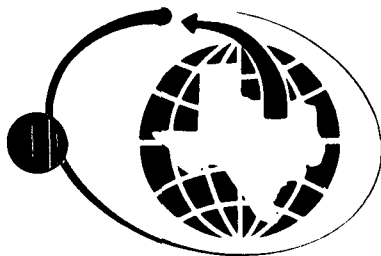
SAMPLE MATRIX : WATER  
ID MARKS : OW4  
: Proj:3519-010-235/Homco 135  
DATE SAMPLED : 17-JUL-1991  
ANALYSIS METHOD : EPA 418.1

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	1.0 mg/L	< 1.0 mg/L

NDRC Laboratories, Inc.

  
David R. Godwin, Ph.D.  
Chief Executive Officer

EN135013325



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3A

## WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NDRC Laboratories, Inc.

Project: 2063

Lab Sample Number: 1-8

Level: \_\_\_\_\_

COMPOUND	SPIKE ADDED ( $\mu\text{g/L}$ )	SAMPLE CONC. ( $\mu\text{g/L}$ )	MS CONC. ( $\mu\text{g/L}$ )	MS % REC. #	QC LIMITS REC.
1,1-Dichloroethene	20.0	0.0	20.78	104	61-145
Trichloroethene	20.0	0.0	23.69	118	71-120
Benzene	20.0	0.0	23.86	119	76-127
Toluene	20.0	0.31	24.58	121	76-125
Chlorobenzene	20.0	0.0	25.70	129	75-130

COMPOUND	SPIKE ADDED ( $\mu\text{g/L}$ )	MSD CONC. ( $\mu\text{g/L}$ )	MSD % REC. #	% RPD #	QC LIMITS RPD REC.	
1,1-Dichloroethene	20.0	19.77	99	5	14	61-145
Trichloroethene	20.0	22.96	115	3	14	71-120
Benzene	20.0	22.23	111	7	11	76-127
Toluene	20.0	23.07	114	6	13	76-125
Chlorobenzene	20.0	24.31	122	3	13	75-130

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

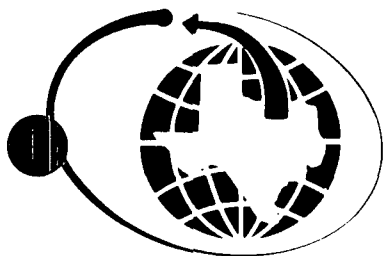
RPD: 0 out of 5 outside of limits

Spike Recovery: 0 out of 10 outside of limits

COMMENTS: \_\_\_\_\_

FORM III VOA-1

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3C

## WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NDRC Laboratories, Inc.

Project: 2063

Matrix Spike COE Sample No.: 1-8

Level: \_\_\_\_\_

COMPOUND	SPIKE ADDED ( $\mu\text{g/L}$ )	SAMPLE CONC. ( $\mu\text{g/L}$ )	MS CONC. ( $\mu\text{g/L}$ )	MS % REC. #	QC LIMITS REC.
Hexachlorocyclopent. _____	2.0	0.00	1.15	58	40-140
Dimethyl Phthalate _____	2.0	0.00	2.62	131	40-140
Acenaphylene _____	2.0	0.00	2.33	117	40-140
2-Chlorobiphenyl _____	2.0	0.00	2.14	107	40-140
Diethyl Phthalate _____	2.0	0.00	2.27	114	40-140
Fluorene _____	2.0	0.00	2.79	140	40-140
2,3 Dichlorobiphenyl _____	2.0	0.00	1.75	88	40-150
Hexachlorobenzene _____	2.0	0.00	1.45	73	40-140
Simazine _____	2.0	0.00	1.90	95	40-140
Atrazine _____	2.0	0.00	2.19	110	40-140
Pentachlorophenol _____	2.0	0.00	1.3	65	40-140

COMPOUND	SPIKE ADDED ( $\mu\text{g/Kg}$ )	MSD CONC. ( $\mu\text{g/Kg}$ )	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Hexachlorocyclopent. _____	2.0	1.20	60	3	40	40-140
Dimethyl Phthalate _____	2.0	3.01	151	14	40	40-140
Acenaphylene _____	2.0	2.50	125	7	40	40-140
2-Chlorobiphenyl _____	2.0	2.10	110	3	40	40-140
Diethyl Phthalate _____	2.0	2.70	135	17	40	40-140
Fluorene _____	2.0	3.00	150	7	40	40-150
2,3 Dichlorodiphenyl _____	2.0	1.93	97	10	40	40-140
Hexachlorobenzene _____	2.0	1.41	71	8	40	40-140
Simazine _____	2.0	2.03	101	6	40	40-140
Atrazine _____	2.0	2.06	103	7	40	40-140
Pentachlorophenol _____	2.0	1.75	88	30	40	40-140

# Column to be used to flag recovery and RPD values with an asterisk

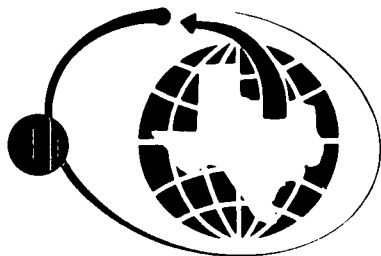
\* Values outside of QC limits

RPD: 0 out of 11 outside of limits

Spike Recovery: 0 out of 22 outside of limits

Comments: \_\_\_\_\_





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WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NDRC Laboratories, Inc.

Project: 2063

Matrix Spike COE Sample No.: 1-8

Level: \_\_\_\_\_

COMPOUND	SPIKE ADDED ( $\mu\text{g/L}$ )	SAMPLE CONC. ( $\mu\text{g/L}$ )	MS CONC. ( $\mu\text{g/L}$ )	MS % REC. #	QC LIMITS REC.
Lindane _____	2.0	0.00	2.22	111	40-140
Phenanthrene _____	2.0	0.00	2.65	133	40-140
Anthrecene _____	2.0	0.00	2.59	130	40-140
Trichlorobiphenyl _____	2.0	0.00	1.93	97	40-140
Alachlor _____	2.0	0.00	2.19	110	40-140
Heptachlor _____	2.0	0.00	1.34	67	40-140
di-n-Butyl Phthalate _____	2.0	0.00	2.8	140	40-140
Tetrachlorobiphenyl _____	2.0	0.00	1.68	84	40-140
Aldrin _____	2.0	0.00	1.56	78	40-140
Pentachlorobiphenyl _____	2.0	0.00	1.94	97	40-140
gamma-Chlordane _____	2.0	0.00	1.65	83	40-140

COMPOUND	SPIKE ADDED ( $\mu\text{g/Kg}$ )	MSD CONC. ( $\mu\text{g/Kg}$ )	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Lindane _____	2.0	2.22	111	0	40	40-140
Phenanthrene _____	2.0	2.60	130	0	40	40-140
Anthrecene _____	2.0	2.49	125	4	40	40-140
Trichlorobiphenyl _____	2.0	1.85	93	4	40	40-140
Alachlor _____	2.0	2.11	106	4	40	40-140
Heptachlor _____	2.0	1.43	72	7	40	40-150
di-n-Butyl Phthalate _____	2.0	2.71	136	3	40	40-140
Tetrachlorobiphenyl _____	2.0	1.72	86	2	40	40-140
Aldrin _____	2.0	1.69	85	9	40	40-140
Pentachlorobiphenyl _____	2.0	1.92	100	3	40	40-140
gamma-Chlordane _____	2.0	1.74	87	5	40	40-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

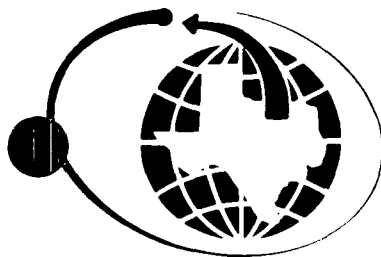
RPD: 0 out of 11 outside of limits

Spike Recovery: 0 out of 22 outside of limits

Comments: \_\_\_\_\_

FORM III SV-1

EN135013328



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3C

## WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NDRC Laboratories, Inc.

Project: 2063

Matrix Spike COE Sample No.: 1-8

Level: \_\_\_\_\_

COMPOUND	SPIKE ADDED ( $\mu\text{g/L}$ )	SAMPLE CONC. ( $\mu\text{g/L}$ )	MS CONC. ( $\mu\text{g/L}$ )	MS % REC. #	QC LIMITS REC.
Pyrene _____	2.0	0.00	2.48	124	40-140
alpha-Chlordane _____	2.0	0.00	1.54	77	40-140
Hexachlorobiphenyl _____	2.0	0.00	1.66	83	40-140
Endrin _____	2.0	0.00	2.44	122	40-140
Butyl Benzyl Phthalate _____	2.0	0.00	2.34	117	40-140
bis(2-Ethylhexyl)Adipate _____	2.0	0.00	1.43	72	40-140
Octachlorobiphenyl _____	2.0	0.00	2.10	105	40-140
Benz(a) Anthracene _____	2.0	0.00	2.14	107	40-140
Chrysene _____	2.0	0.00	2.19	110	40-140
Heptachlorobiphenyl _____	2.0	0.00	2.04	102	40-140
Methoxychlor _____	2.0	0.00	2.01	101	40-140

COMPOUND	SPIKE ADDED ( $\mu\text{g/Kg}$ )	MSD CONC. ( $\mu\text{g/Kg}$ )	MSD % REC. #	% RPD #	QC LIMITS	
					RPD	REC.
Pyrene _____	2.0	2.31	116	7	40	40-140
alpha-Chlordane _____	2.0	1.61	81	5	40	40-140
Hexachlorobiphenyl _____	2.0	1.89	95	14	40	40-140
Endrin _____	2.0	2.30	115	6	40	40-140
Butyl Benzyl Phthalate _____	2.0	2.34	117	0	40	40-140
Bis(2-ethylhexyl)Adipate _____	2.0	1.60	80	11	40	40-150
Benz(a) Athracene _____	2.0	2.34	117	9	40	40-140
Chrysene _____	2.0	2.37	119	8	40	40-140
Heptachlorobiphenyl _____	2.0	2.33	117	14	40	40-140
Methoxychlor _____	2.0	2.05	103	2	40	40-140
Octachlorobiphenyl _____	2.0	2.35	118	12	40	40-140

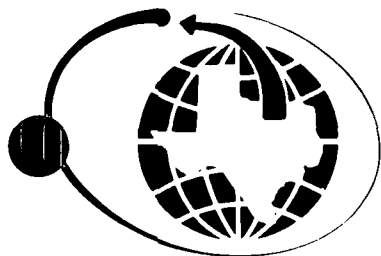
# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

RPD: 0 out of 11 outside of limits

Spike Recovery: 0 out of 22 outside of limits

Comments: \_\_\_\_\_



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3C

## WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: NDRC Laboratories, Inc.

Project: 2063

Matrix Spike COE Sample No.: 1-8

Level: \_\_\_\_\_

COMPOUND	SPIKE ADDED ( $\mu\text{g/L}$ )	SAMPLE CONC. ( $\mu\text{g/L}$ )	MS CONC. ( $\mu\text{g/L}$ )	MS % REC. #	QC LIMITS REC.
bis(2-ethylhexyl)Phthalate	2.0	0.00	2.08	104	40-140
Benzo(b) fluoranthrene	2.0	0.00	2.14	107	40-140
Benzo(k) fluoranthrene	2.0	0.00	1.75	88	40-140
Benzo(a) pyrene	2.0	0.00	1.81	91	40-140
Indeno(1,2,3-cd)	2.0	0.00	1.93	97	40-140
Dibenz(a,h) Anthracene	2.0	0.00	2.17	109	40-140
Benzo(g,h,i) Perylene	2.0	0.00	2.23	112	40-140

COMPOUND	SPIKE ADDED ( $\mu\text{g/Kg}$ )	MSD CONC. ( $\mu\text{g/Kg}$ )	MSD % REC. #	% RPD #	QC LIMITS RPD REC.	
bis(2-ethylhexyl)Phthalate	2.0	2.29	115	10	40	40-140
Benzo(b) fluoroanthrene	2.0	2.33	117	9	40	40-140
Benzo(k) fluoroanthrene	2.0	2.02	101	14	40	40-140
Benzo (a) pyrene	2.0	2.10	105	14	40	40-140
Indeno(1,2,3-cd)pyrene	2.0	2.27	114	15	40	40-140
Dibenz(a,h) Anthracene	2.0	2.57	129	17	40	40-150
Benzo(g,h,i) Perlyene	2.0	2.57	129	14	40	40-140

# Column to be used to flag recovery and RPD values with an asterisk

\* Values outside of QC limits

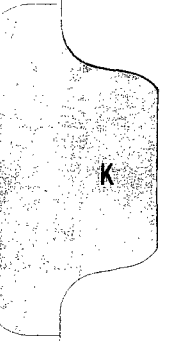
RPD: 0 out of 7 outside of limits

Spike Recovery: 0 out of 14 outside of limits

Comments: \_\_\_\_\_

FORM III SV-1

EN135013320



**APPENDIX K**

**SLUG TEST METHODS AND RESULTS**

### Slug Test Methods

The slug tests were performed at least 24 hours after well development. The slug consisted of a 10-foot length of 2-inch-ID, Schedule 40, PVC pipe filled with sand and water and capped on both ends with PVC slip caps. The slug was decontaminated between each well using the step-wise procedures described in Appendix D. New gloves were used to handle the slug after decontaminations. A dedicated piece of polypropylene rope was used to lower the slug down each of the wells.

Water levels were measured with Druck brand, 10 psig range, pressure transducer attached to an Insitu brand, 2000 series data logger. The transducer was calibrated on May 10, 1991 and was found to be accurate within 0.01 feet of water. The logger collected water level measurements on a logarithmic schedule as follows:

<u>Elapsed Time</u>	<u>Recording Interval</u>
0 to 5 seconds	0.5 seconds
5 to 20 seconds	1 second
20 to 120 seconds	5 seconds
2 to 10 minutes	30 seconds
10 minutes to end of test	1 minute

The tests were performed according to the following steps:

- 1) The transducer was placed at the bottom of the well and the static water level was measured.
- 2) The slug was submerged in the well and the water level was checked periodically to monitor the return to static conditions.
- 3) After the static water level had been re-attained, the data logger was started and the slug was rapidly pulled out of the water column.
- 4) Water levels were recorded until the static water level had been re-attained.

Slug tests were attempted in all four observation wells. The test in OW2 was invalidated because the slug displaced the pressure transducer.

---

### Analytical Method

The slug test data were down-loaded to an ASCII file with time in the first column and water level in the second column. The data were then directly imported to the program AQTESOLV (version 1.1, June 12, 1991: Geraghty and Miller). AQTESOLV automatically performs slug test curve fitting and calculations. Of the several solutions available in the program, the Bouwer and Rice (1976, 1989) method was chosen because it was designed for wells screened across the water table, and because it has been found to be the most reliable method for slug test analyses (Campbell et al., 1990).

This discussion is followed by an abstract of the Bouwer and Rice (1976) method, and the slug test data with the curves they were matched to. The data/curve match for the OW3 test does not include the first minute of data. That portion of the data has been attributed to a response from the sand pack called the "double line effect."

## SLUG TEST METHOD FOR UNCONFINED AQUIFERS

REFERENCE: Bouwer, H. and R. C. Rice, 1976. A slug test method for determining hydraulic conductivity of unconfined aquifers with completely or partially penetrating wells, Water Resources Research, vol. 12, no. 3, pp. 423-428.

### SOLUTION:

$$\ln s_o - \ln s_t = \frac{2 K L t}{r_c^2 \ln(r_o/r_w)}$$

where:

$s_o$  = initial drawdown in well due to instantaneous removal of water from well [L]

$s_t$  = drawdown in well at time  $t$  [L]

$L$  = length of well screen [L]

$r_c$  = radius of well casing [L]

$\ln(r_o/r_w)$  = empirical "shape factor" determined from tables provided in Bouwer and Rice (1976)

$r_o$  = equivalent radius over which head loss occurs [L]

$r_w$  = radius of well (including gravel pack) [L]

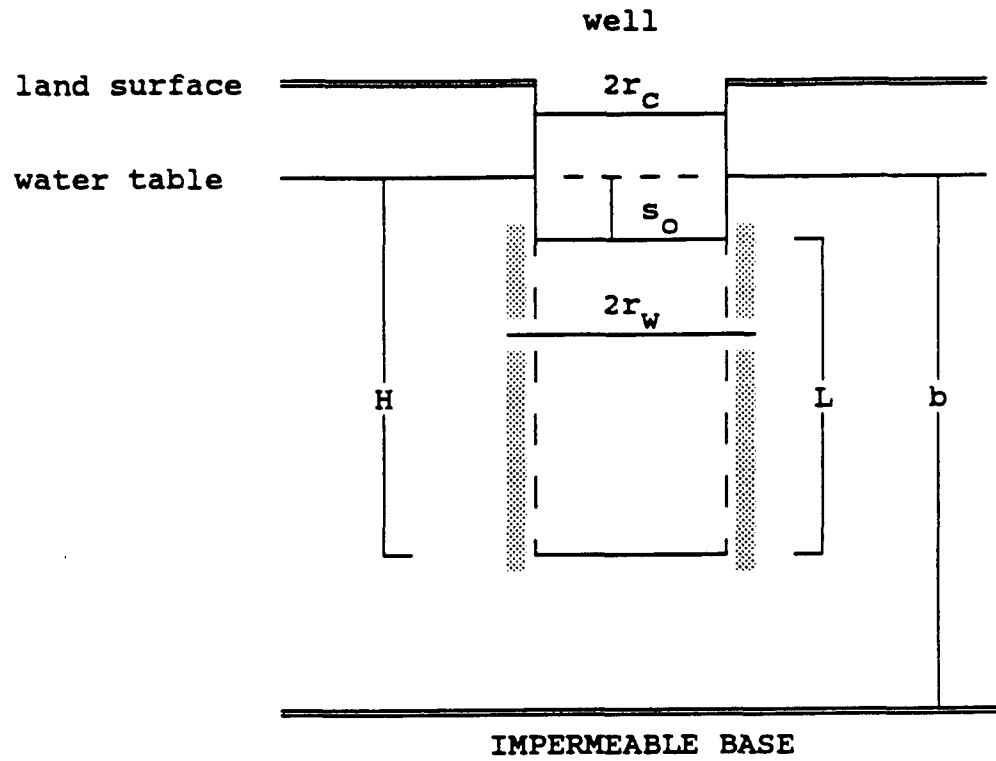
$H$  = static height of water in well [L]

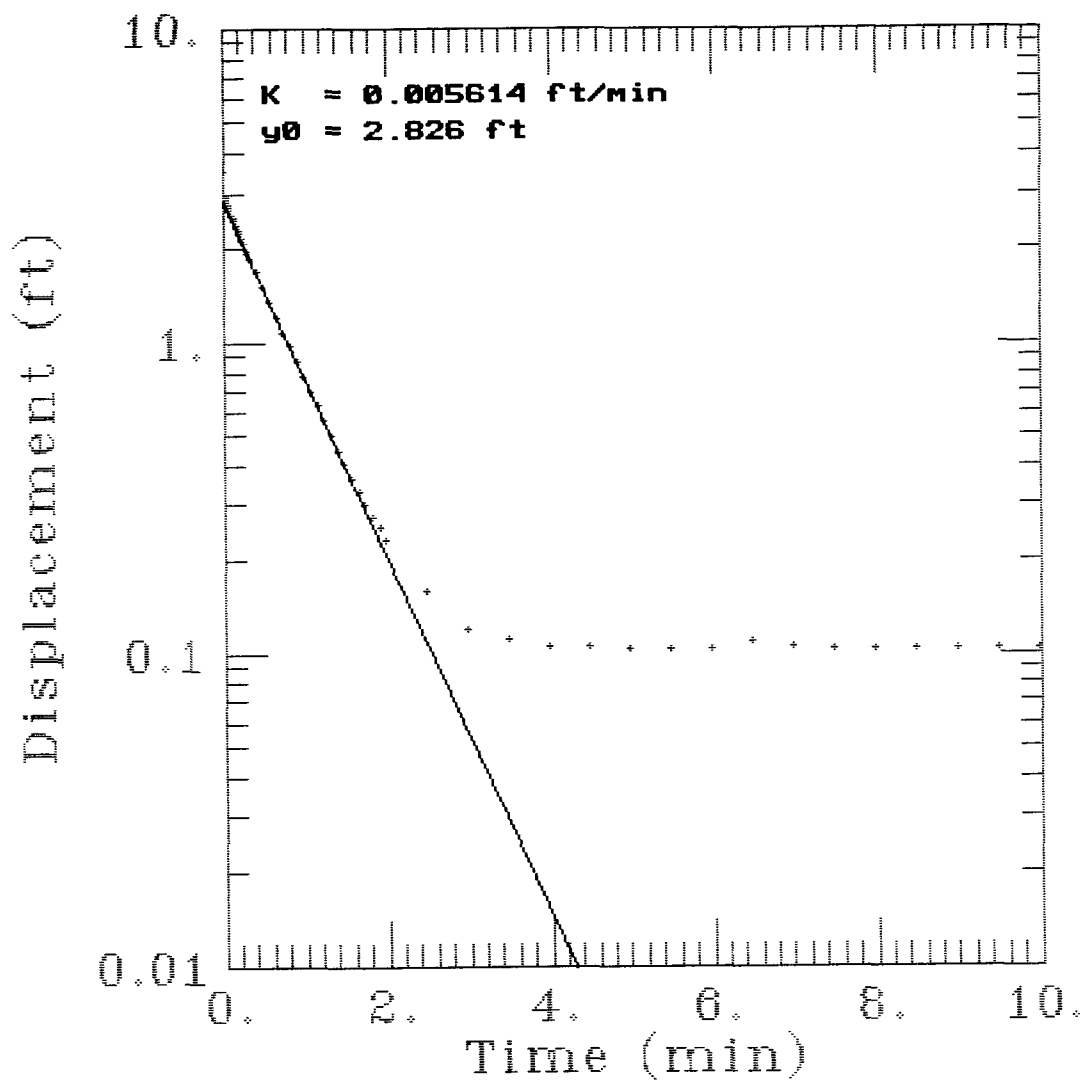
$b$  = saturated thickness of aquifer



**SLUG TEST METHOD FOR UNCONFINED AQUIFERS**  
(continued)

**DEFINITION OF TERMS:**





NOTE:

- BOUWER AND RICE (1976) ANALYTICAL TECHNIQUE USED
- ASSUMED SATURATED THICKNESS: 70 FEET

**ENSR**<sup>TM</sup>

ENSR CONSULTING & ENGINEERING

SLUG TEST OF OW1

HOMCO SITE 135  
HOBBS, NEW MEXICO

DRAWN: SJF

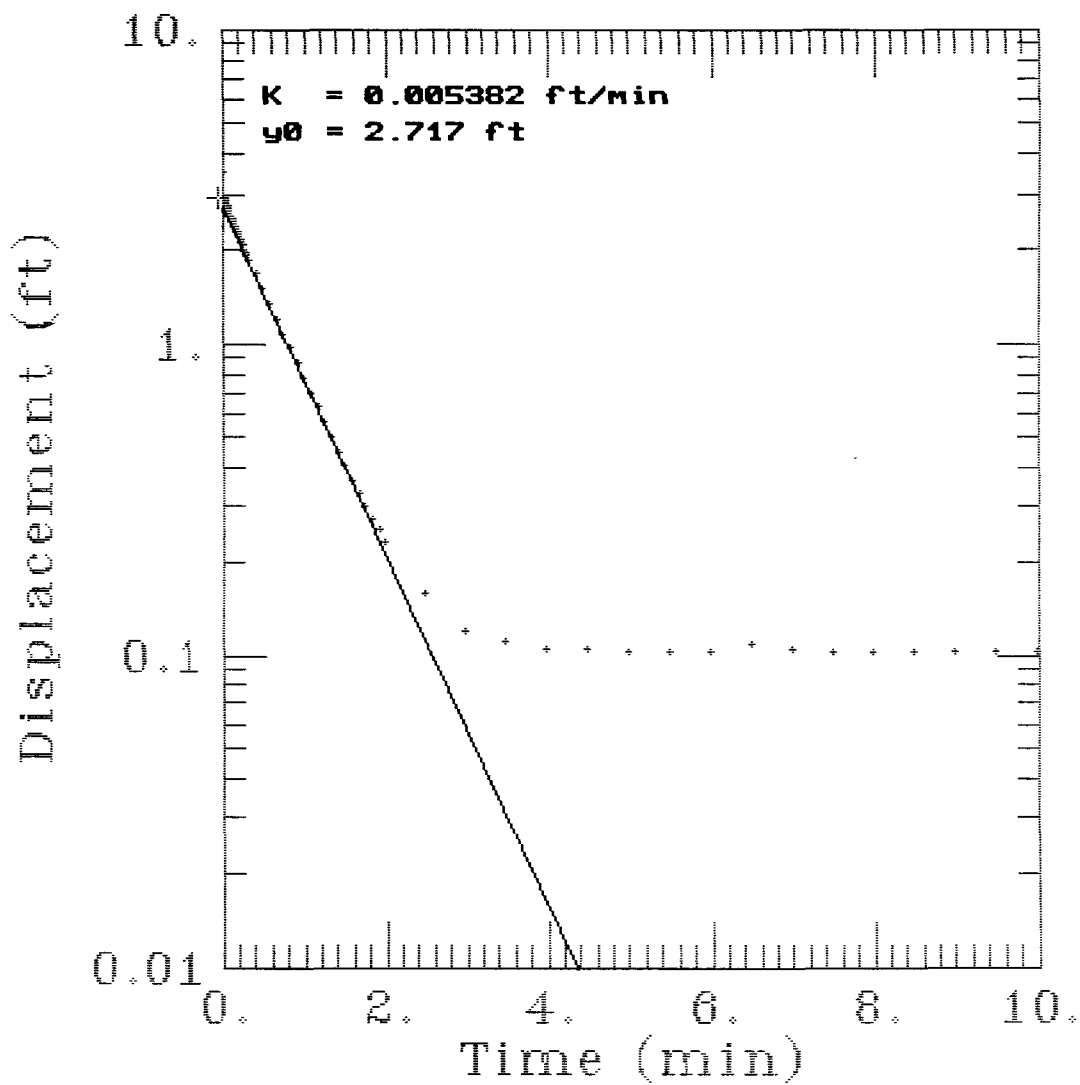
DATE: 9-9-91

PROJECT  
NUMBER:

APPVD:

REVISED:

3519-010-435



NOTE:

- BOUWER AND RICE (1976) ANALYTICAL TECHNIQUE USED.
- ASSUMED SATURATED THICKNESS: 197 FEET

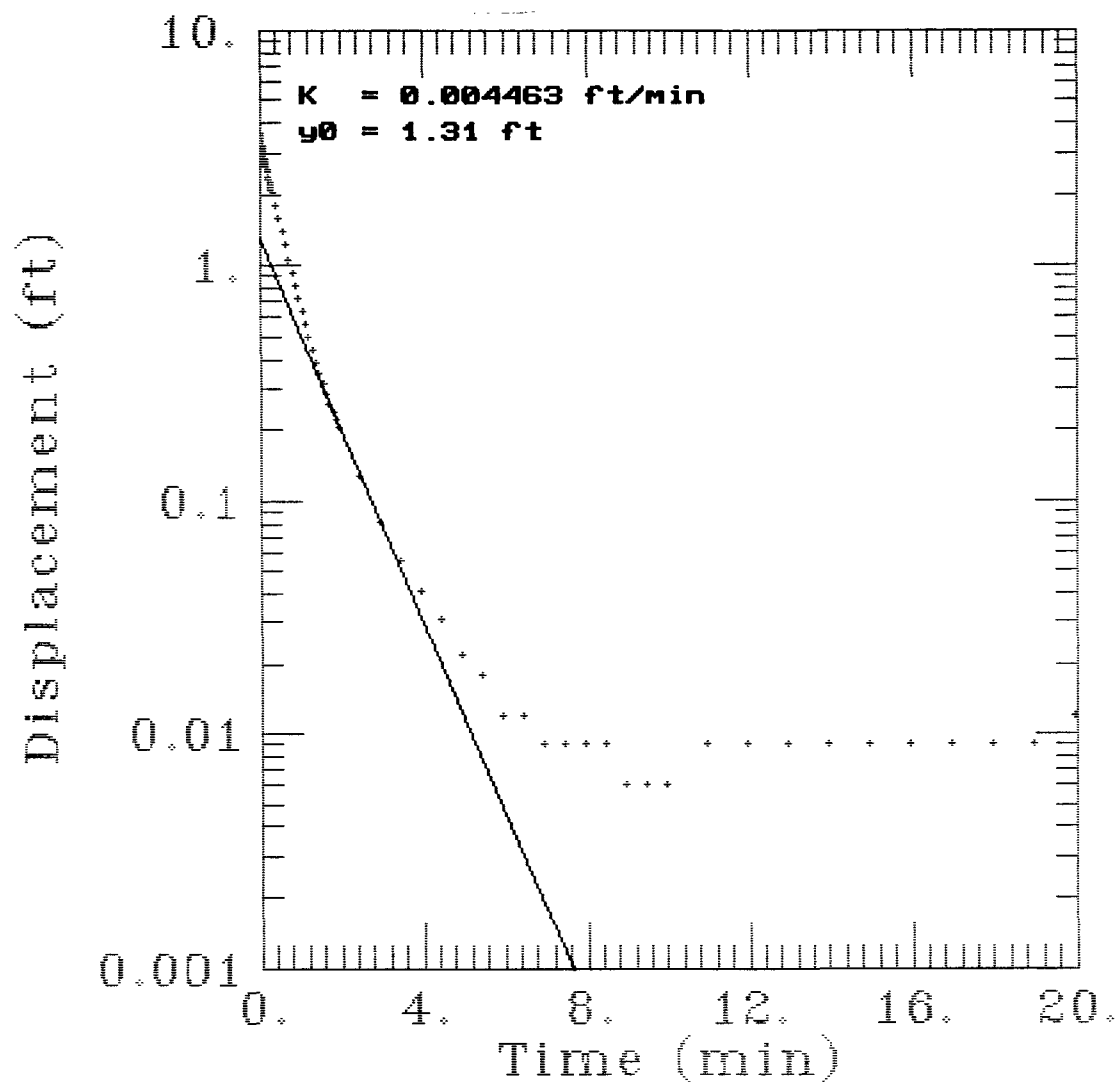
**ENSR**<sup>TM</sup>

ENSR CONSULTING & ENGINEERING

**SLUG TEST OF OW1**

**HOMCO SITE 135  
HOBBS, NEW MEXICO**

DRAWN:	SJF	DATE:	9-9-91	PROJECT NUMBER:
APPVD:		REVISED:		3519-010-435



NOTE:

- BOUWER AND RICE (1976) ANALYTICAL TECHNIQUE USED
- ASSUMED SATURATED THICKNESS: 70 FEET

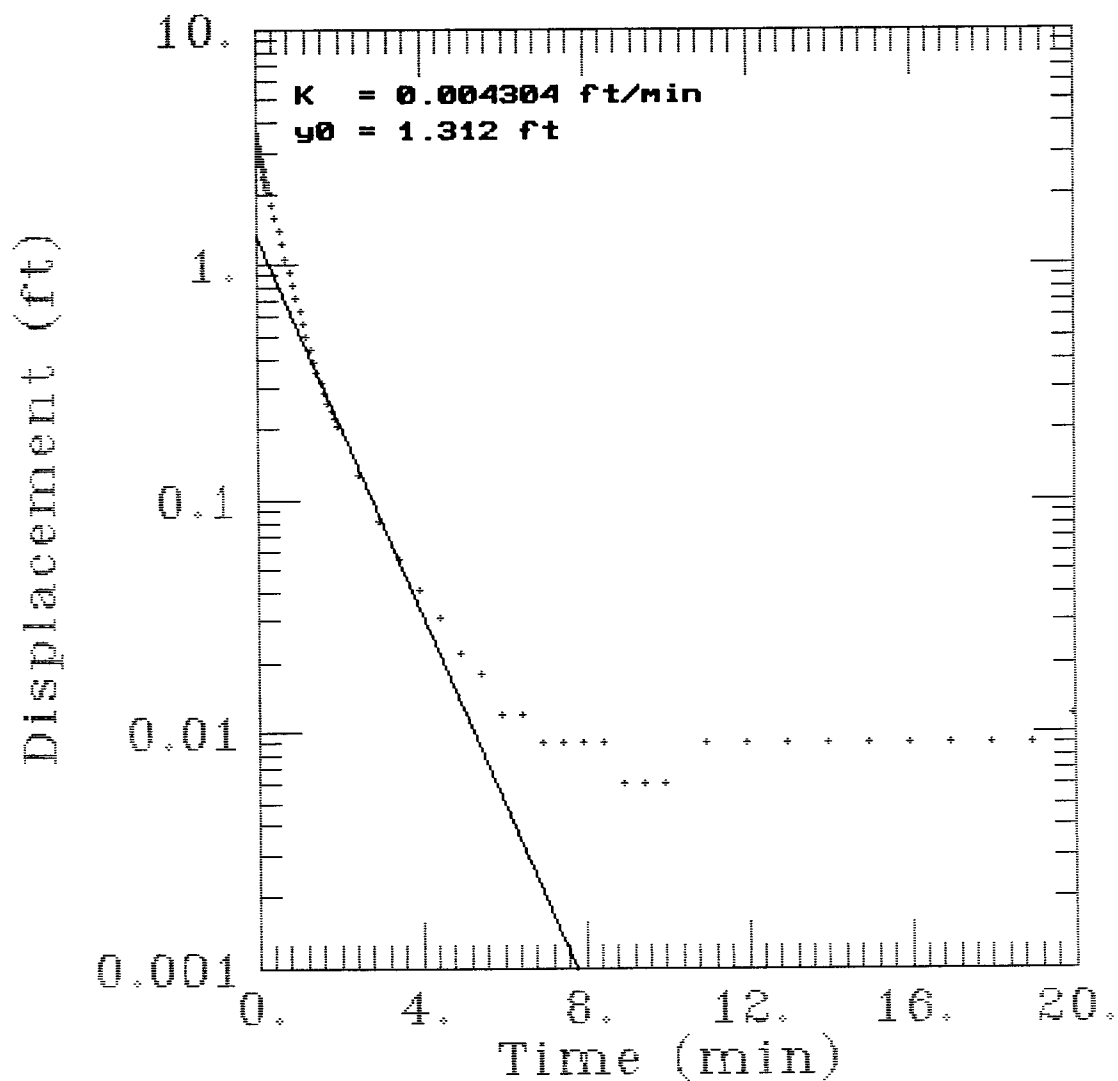
**ENSR**<sup>TM</sup>

ENSR CONSULTING & ENGINEERING

**SLUG TEST OF OW3**

**HOMCO SITE 135  
HOBBS, NEW MEXICO**

DRAWN: SJF	DATE: 9-9-91	PROJECT NUMBER:
APPV'D:	REVISED:	3519-010-435



NOTE:

- BOUWER AND RICE (1976) ANALYTICAL TECHNIQUE USED
- ASSUMED SATURATED THICKNESS: 197 FEET

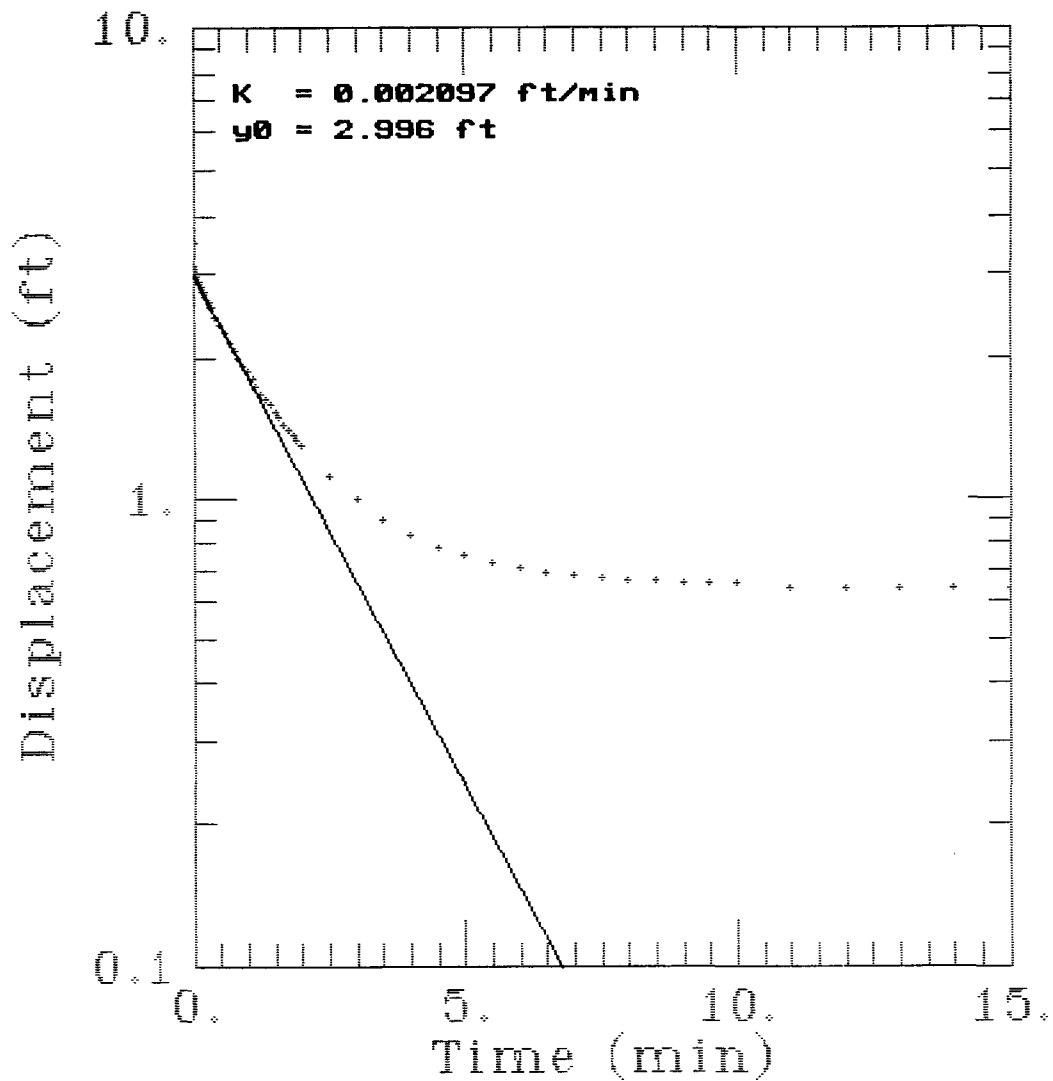
**ENSR**<sup>TM</sup>

ENSR CONSULTING & ENGINEERING

**SLUG TEST OF OW3**

**HOMCO SITE 135  
HOBBS, NEW MEXICO**

DRAWN: SJF	DATE: 9-9-91	PROJECT NUMBER:
APPVD:	REVISED:	3519-010-435



NOTE:

- BOUWER AND RICE (1976) ANALYTICAL TECHNIQUE USED
- ASSUMED SATURATED THICKNESS: 70 FEET

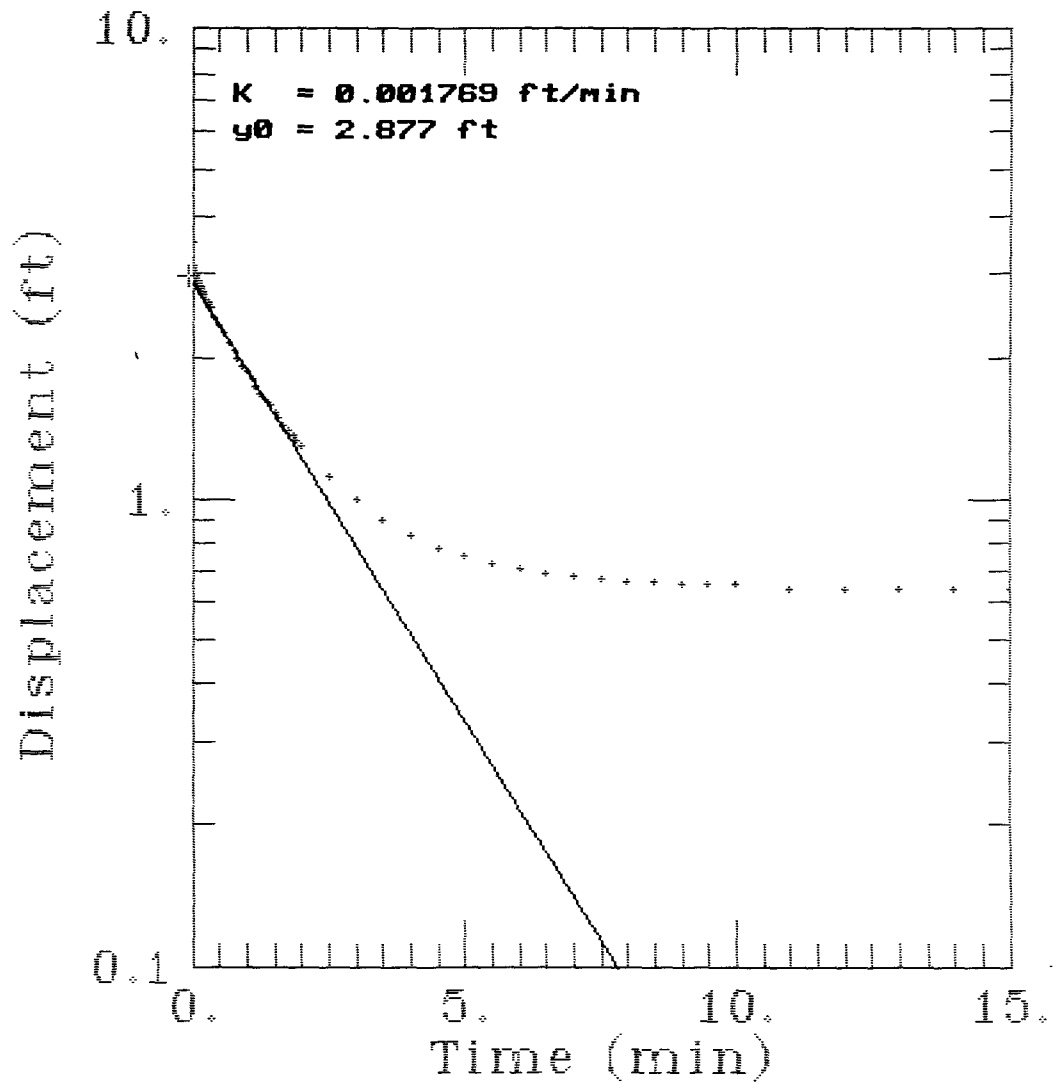
**ENSR**<sup>TM</sup>

ENSR CONSULTING & ENGINEERING

SLUG TEST OF OW4

HOMCO SITE 135  
HOBBS, NEW MEXICO

DRAWN: SJF	DATE: 9-9-91	PROJECT NUMBER:
APPVD:	REVISED:	3519-010-435



NOTE:

- BOUWER AND RICE (1976) ANALYTICAL TECHNIQUE USED
- ASSUMED SATURATED THICKNESS: 197 FEET

**ENSR**<sup>TM</sup>

ENSR CONSULTING & ENGINEERING

**SLUG TEST OF OW4**

**HOMCO SITE 135  
HOBBS, NEW MEXICO**

DRAWN: SJF

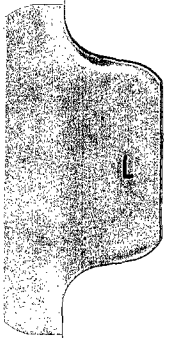
DATE: 9-9-91

PROJECT  
NUMBER:

APPV'D:

REVISED:

3519-010-435





**APPENDIX L**  
**CHEMICAL MIGRATION RATE CALCULATIONS**

Workers have found that  $K_{oc}$  values are well correlated with a chemical's hydrophobicity as measured by its octanol-water partition coefficient,  $K_{ow}$  (unitless). Numerous empirical equations have been developed which can be used to ultimately estimate  $K_d$  values for a chemical in a soil by:

- estimating  $K_{oc}$  values from equations which use the chemical's  $K_{ow}$
- estimating  $K_d$  values by multiplying the estimated  $K_{oc}$  by the soil's  $f_{oc}$

The  $K_d$  value is then used to calculate an R and the degree of chemical retardation in groundwater. The success of this approach depends on the consideration of other chemical mobility factors which are not taken into account. Factors which could cause overestimation or underestimation of chemical retardation include:

- use of a  $K_{oc}$  predicting equation which was not developed for the considered chemical;
- use of a  $K_{oc}$  predicting equation which was not developed using an  $f_{oc}$  range similar to that of the considered soil;
- lack of consideration for the contribution of mineral surfaces to chemical adsorption;
- lack of consideration for soil heterogeneity; and
- extrapolation of retardation factors to areas where high contaminant concentrations are present.

A compendium of 16 studies with different  $K_{oc}$  predictive equations was reviewed to match experimental techniques with chemicals and  $f_{oc}$  values from the HOMCO facility. Mineral surface adsorption was not considered in these  $K_d$  calculations. The net result of this omission may be an underestimation of the amount of retardation.

The following pages are work-sheet summaries of the calculations used to estimate maximum and minimum migration rates. Maximum values were estimated by using the highest estimated average linear groundwater velocity and the lowest documented  $K_{ow}$ . Minimum values were estimated by using the lowest estimated average linear velocity and the highest documented  $K_{ow}$ .

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: methoxychlor      SOIL BULK DRY DENSITY  
(lb/ft<sup>3</sup>):      100.9

SOIL ORG. CARBON:      0.0005  
(fraction)      KOW:      2042  
(unitless)

LOG SLOPE      1      LOG INTERCEPT:      -0.21  
REF: Karickhoff et al.,      1979

Koc: 1259.086  
litre/kg      Kd: 0.629543  
(litre/kg)

-----  
Estimated total porosity:      0.39  
(unitless)

Retardation Factor 3.607464  
(unitless)

EFFECTIVE POROSITY      0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity:      0.131  
(ft/day)

Contaminant Velocity:      0.036313  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	6.627230	13.25446	66.27230	132.5446
Unretarded:	23.9075	47.815	239.075	478.15

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: methoxychlor      SOIL BULK DRY DENSITY  
                                 (lb/ft<sup>3</sup>):      100.9  
SOIL ORG. CARBON:      0.0005  
(fraction)                      KOW:      120226  
                                 (unitless)

LOG SLOPE              1              LOG INTERCEPT:              -0.21  
REF: Karickhoff et al.,      1979

Koc: 74130.75  
litre/kg                      Kd: 37.06537  
                                 (litre/kg)

-----  
Estimated total porosity:      0.39  
(unitless)

Retardation Factor 154.5186  
(unitless)

EFFECTIVE POROSITY      0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity:      0.044  
(ft/day)

Contaminant Velocity:      0.000284  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.051967	0.103935	0.519678	1.039356
Unretarded:	8.03	16.06	80.3	160.6

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: pyrene SOIL BULK DRY DENSITY  
(lb/ft3): 100.9  
SOIL ORG. CARBON: 0.0005 KOW: 75858  
(fraction) (unitless)  
LOG SLOPE 1 LOG INTERCEPT: -0.21  
REF: Karickhoff et al., 1979

Koc: 46773.66  
litre/kg Kd: 23.38683  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 97.86437  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.131  
(ft/day)

Contaminant Velocity: 0.001338  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.244292	0.488584	2.442921	4.885843
Unretarded:	23.9075	47.815	239.075	478.15

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: pyrene SOIL BULK DRY DENSITY  
(lb/ft3): 100.9

SOIL ORG. CARBON: 0.0005 KOW: 208930  
(fraction) (unitless)

LOG SLOPE 1 LOG INTERCEPT: -0.21  
REF: Karickhoff et al., 1979

Koc: 128825.1  
litre/kg Kd: 64.41259  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 267.7862  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.044  
(ft/day)

Contaminant Velocity: 0.000164  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.029986	0.059973	0.299866	0.599732
Unretarded:	8.03	16.06	80.3	160.6

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: indeno(1,2,3,c,d)pyrene SOIL BULK DRY DENSITY  
(lb/ft3): 100.9  
SOIL ORG. CARBON: 0.0005 KOW: 933254  
(fraction) (unitless)

LOG SLOPE 1 LOG INTERCEPT: -0.21  
REF: Karickhoff et al., 1979

Koc: 575439.7  
litre/kg Kd: 287.7198  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 1192.687  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.131  
(ft/day)

Contaminant Velocity: 0.000109  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.020045	0.040090	0.200450	0.400901
Unretarded:	23.9075	47.815	239.075	478.15

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: indeno(1,2,3,c,d)pyrene SOIL BULK DRY DENSITY  
(lb/ft3): 100.9  
SOIL ORG. CARBON: 0.0005 KOW: 50118723  
(fraction) (unitless)

LOG SLOPE 1 LOG INTERCEPT: -0.21  
REF: Karickhoff et al., 1979

Koc: 30902954  
litre/kg Kd: 15451.47  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 63998.45  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.044  
(ft/day)

Contaminant Velocity: 0.000000  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.000125	0.000250	0.001254	0.002509
Unretarded:	8.03	16.06	80.3	160.6



This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND:heptachlor SOIL BULK DRY DENSITY  
(lb/ft3): 100.9

SOIL ORG. CARBON: 0.0005 KOW: 275423  
(fraction) (unitless)

LOG SLOPE 0.544 LOG INTERCEPT: 1.377  
REF: Kenaga and Goring, 1980

Koc: 21695.02 Kd: 10.84751  
litre/kg (litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 45.92858  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.044  
(ft/day)

Contaminant Velocity: 0.000958  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.174836	0.349673	1.748366	3.496732
Unretarded:	8.03	16.06	80.3	160.6

D Dorrance  
August 27, 1991

Koc: 21695.02  
litre/kg

Kd: 10.84751  
(litre/kg)

Retardation Factor45.92858  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.131  
(ft/day)

Contaminant Velocity: 0.002852  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.520536	1.041072	5.205363	10.41072
Unretarded:	23.9075	47.815	239.075	478.15

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: ~~Toluene~~ SOIL BULK DRY DENSITY  
dibenz(a,h)anthracene (lb/ft<sup>3</sup>): 100.9  
SOIL ORG. CARBON: 0.0005 KOW: 933254  
(fraction) (unitless)

LOG SLOPE 1 LOG INTERCEPT: -0.21  
REF: Karickhoff et al., 1979

Koc: 575439.7  
litre/kg Kd: 287.7198  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 1192.687  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.131  
(ft/day)

Contaminant Velocity: 0.000109  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.020045	0.040090	0.200450	0.400901
Unretarded:	23.9075	47.815	239.075	478.15

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: ~~Toluene~~, SOIL BULK DRY DENSITY  
dibenz(a,h)anthracene (lb/ft<sup>3</sup>): 100.9  
SOIL ORG. CARBON: 0.0005 KOW: 3162278  
(fraction) (unitless)

LOG SLOPE 1 LOG INTERCEPT: -0.21  
REF: Karickhoff et al., 1979

Koc: 1949844.  
litre/kg Kd: 974.9224  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 4038.966  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.044  
(ft/day)

Contaminant Velocity: 0.000010  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.001988	0.003976	0.019881	0.039762
Unretarded:	8.03	16.06	80.3	160.6

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: SOIL BULK DRY DENSITY  
gamma chlordanes (lb/ft<sup>3</sup>): 100.9  
SOIL ORG. CARBON: 0.0005 KOW: 1000000  
(fraction) (unitless)

LOG SLOPE 1 LOG INTERCEPT: 0.21  
REF: Karickhoff et al., 1979

Koc: 1621810.  
litre/kg Kd: 810.9050  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 3359.633  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.044  
(ft/day)

Contaminant Velocity: 0.000013  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.002390	0.004780	0.023901	0.047802
Unretarded:	8.03	16.06	80.3	160.6

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: SOIL BULK DRY DENSITY  
gamma chlordanes (lb/ft<sup>3</sup>): 100.9  
SOIL ORG. CARBON: 0.0005 KOW: 1000000  
(fraction) (unitless)

LOG SLOPE 1 LOG INTERCEPT: 0.21  
REF: Karickhoff et al., 1979

Koc: 1621810.  
litre/kg Kd: 810.9050  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 3359.633  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.131  
(ft/day)

Contaminant Velocity: 0.000038  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.007116	0.014232	0.071161	0.142322
Unretarded:	23.9075	47.815	239.075	478.15

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: SOIL BULK DRY DENSITY  
gamma chlordanes (lb/ft<sup>3</sup>): 100.9  
SOIL ORG. CARBON: 0.0005 KOW: 1000000  
(fraction) (unitless)

LOG SLOPE 1 LOG INTERCEPT: 0.21  
REF: Karickhoff et al., 1979

Koc: 141254  
litre/kg Kd: 70.627  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 293.5252  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.131  
(ft/day)

Contaminant Velocity: 0.000446  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.081449	0.162899	0.814495	1.628990
Unretarded:	23.9075	47.815	239.075	478.15

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: SOIL BULK DRY DENSITY  
benzo(g,h,i)perylene (lb/ft3): 100.9  
SOIL ORG. CARBON: 0.0005 KOW: 12589254  
(fraction) (unitless)

LOG SLOPE 1 LOG INTERCEPT: 0.21  
REF: Karickhoff et al., 1979

Koc: 20417379  
litre/kg Kd: 10208.68  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 42283.69  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.131  
(ft/day)

Contaminant Velocity: 0.000003  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.000565	0.001130	0.005654	0.011308
Unretarded:	23.9075	47.815	239.075	478.15



This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: SOIL BULK DRY DENSITY  
benzo(g,h,i)perylene (lb/ft3): 100.9  
SOIL ORG. CARBON: 0.0005 KOW: 12589254  
(fraction) (unitless)

LOG SLOPE 1 LOG INTERCEPT: 0.21  
REF: Karickhoff et al., 1979

Koc: 20417379  
litre/kg Kd: 10208.68  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 42283.69  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.044  
(ft/day)

Contaminant Velocity: 0.000001  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.000189	0.000379	0.001899	0.003798
Unretarded:	8.03	16.06	80.3	160.6

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: Benzo(a)pyrene      SOIL BULK DRY DENSITY  
(lb/ft<sup>3</sup>):      100.9

SOIL ORG. CARBON:      0.0005      KOW: 3162278  
(fraction)      (unitless)

LOG SLOPE      1      LOG INTERCEPT:      0.21  
REF: Karickhoff et al.,      1979

Koc: 5128614.  
litre/kg      Kd: 2564.307  
(litre/kg)

-----  
Estimated total porosity:      0.39  
(unitless)

Retardation Factor 10621.93  
(unitless)

EFFECTIVE POROSITY      0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity:      0.044  
(ft/day)

Contaminant Velocity:      0.000004  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.000755	0.001511	0.007559	0.015119
Unretarded:	8.03	16.06	80.3	160.6

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: Benzo(a)pyrene      SOIL BULK DRY DENSITY  
(lb/ft<sup>3</sup>):      100.9

SOIL ORG. CARBON:      0.0005  
(fraction)      KOW:      645654  
(unitless)

LOG SLOPE      1      LOG INTERCEPT:      0.21  
REF: Karickhoff et al.,      1979

Koc: 1047128.  
litre/kg      Kd: 523.5640  
(litre/kg)

-----  
Estimated total porosity:      0.39  
(unitless)

Retardation Factor 2169.515  
(unitless)

EFFECTIVE POROSITY      0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity:      0.131  
(ft/day)

Contaminant Velocity:      0.000060  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.011019	0.022039	0.110197	0.220394
Unretarded:	23.9075	47.815	239.075	478.15

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: Endrin SOIL BULK DRY DENSITY  
(lb/ft<sup>3</sup>): 100.2  
SOIL ORG. CARBON: 0.00375 KOW: 218273  
(fraction) (unitless)  
LOG SLOPE 1 LOG INTERCEPT: 0.21  
REF: Karickhoff et al., 1979

Koc: 353997.3  
litre/kg Kd: 1327.490  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 5461.098  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.044  
(ft/day)

Contaminant Velocity: 0.000008  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.001470	0.002940	0.014704	0.029408
Unretarded:	8.03	16.06	80.3	160.6

This is a spreadsheet to calculate Retardation Coefficients  
and the resulting centroid contaminant velocities in groundwater  
at Homco 135

D Dorrance  
August 27, 1991

COMPOUND: Endrin SOIL BULK DRY DENSITY  
(lb/ft3): 100.2  
SOIL ORG. CARBON: 0.00375 KOW: 1618.1  
(fraction) (unitless)  
LOG SLOPE 1 LOG INTERCEPT: 0.21  
REF: Karickhoff et al., 1979

Koc: 2624.250  
litre/kg Kd: 9.840940  
(litre/kg)

-----  
Estimated total porosity: 0.39  
(unitless)

Retardation Factor 41.47677  
(unitless)

EFFECTIVE POROSITY 0.33  
(unitless)  
(Scott and Scalmanini, 1978)

Average Linear Velocity: 0.1315  
(ft/day)

Contaminant Velocity: 0.003170  
(ft/day)

Years	0.5	1	5	10
Feet Traveled				
Retarded:	0.578607	1.157214	5.786070	11.57214
Unretarded:	23.99875	47.9975	239.9875	479.975



**APPENDIX M**  
**SURVEY NOTES**

STA	HI	EL	DESC
TBM-1	3.43 3653.35	3649.97	" <sup>1</sup> / <sub>2</sub> " CHISELED S.W. CORNER OF CONC. BASE OF TRAFFIC SIGNAL LOCATED IN THE N.W. QUADRANT OF INTERSECTION OF THE HARVEY BLD. AND W. CO. RD.
TP-1	4.55 3648.80		60d NAIL IN TP. N. SIDE OF W. Co. Rd.
	4.50 3653.30		
TP-2	4.61 3648.69		60d NAIL IN TP. S. SIDE OF W. Co. Rd.
	4.62 3653.31		
TP-3	5.00 3648.31		60d NAIL IN TP. S. SIDE OF W. Co. Rd.
	6.58 3654.89		
TP-4	3.80 3651.09		60d NAIL IN TP. S. SIDE OF W. Co. Rd.
	4.52 3655.61		
TP-5	4.86 3650.75		60d NAIL IN LIGHT PIPE N. CORNER OF HOMCO YARD
	3.67 3654.42		
TBM-Homco	5.20 3649.22		" <sup>1</sup> / <sub>2</sub> " CHISELED A. N. CORNER CONCRETE SLAB AT HOMCO ENTRANCE

# Return

TBM-Homco		3649.22
TP-5	5.38 3654.60	
	4.96 3655.71	3.85 3650.75
TP-4	3.85 3654.94	4.62 3651.09
TP-3	5.03 3648.31	6.63 3648.31
TP-2	4.57 3648.69	4.65 3648.69
TP-1	4.47 3648.79	4.47 3648.79
TBM-1	3.34 3649.92	

PI	EL FWD	EL RETURN	AVG.
TBM-1	3649.97	3649.92	3649.92
TP-1	3648.80	3648.79	3648.80
TP-2	3648.69	3648.69	3648.69
TP-3	3648.31	3648.31	3648.31
TP-4	3651.09	3651.09	3651.09
TP-5	3650.75	3650.75	3650.75
TBM-Homco	3649.22	3649.22	3649.22

ENSL - HOMCO BENCH LEVELS 7-18-91 T. DIGN  
CLEAR, WARM, LK BREEZE 0.47



NO	BS	FS	HA	Dist	DESC
----	----	----	----	------	------

P.O.T. A

P.O.T. B

0°00'00" 916.57

P.O.T. C

0°00'00" 442.47

P.O.T. D

0°00'00" 275.46

FN 2

-66°29'37" 210.46

P.O.T. D

P.O.T. B

0°00'00"

P.O.T. E

180°00'00" 25.55

① WESTERN WATER WELL S.E. CORNER

114°52'44" -

② N.E. CORNER

130°53'51" -

③ N.W. CORNER

152°55'03" -

④ O.W. #3

-82°25'43" 26.30

⑤ FN-3

-133°43'06" 232.13

⑥ FN-4

-106°20'32" 278.72

⑦ N.W. BLDG CORNER

-109°58'32" 310.04

⑧ N.W. SUMP CORNER

-90°51'39" 180.97

⑨ S.E. CORNER SUMP

-85°22'55" 167.50

⑩ S.E. CORNER SLAB

VOID

P.O.T.

VOID

⑪ WATER WELL

-93°21'09" 198.15

⑫ S.W. CORNER WELL HOUSE

-94°53'42" 202.03

⑬ S.E. CORNER WELL HOUSE

-91°29'00" 190.50

⑭ S.E. CORNER SLAB

-76°42'40" 152.36

⑮ EAST BLDG CORNER

-74°04'30" 166.41

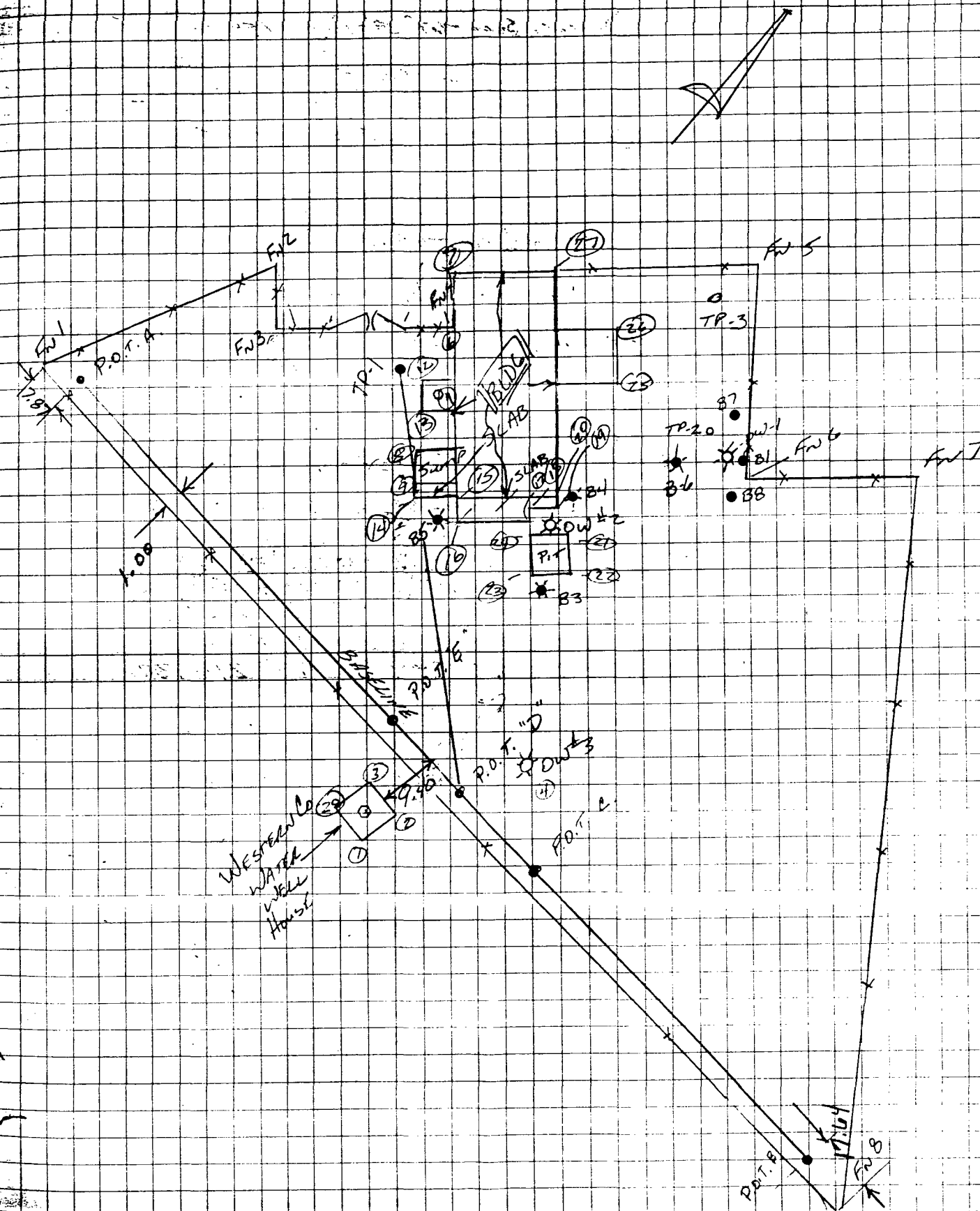
FN 2 - Home

HORIZONTAL CONTROL

7-18-91

T. Allen

0 AP



70 BS FS AA DIST.

P.O.T. "D" P.O.T. "B" 0°00'00"

(16) CORNELIUS -67°29'31" 159.30

(17) " -63°50'48" 197.58

(18) " -46°35'12" 200.52

(19) " -65°47'59" 209.88

(20) BLDG CORNER -68°21'01" 213.14

(21) P.T. CORNER -62°21'39" 211.37

(22) " -57°25'28" 207.80

(23) " -57°57'59" 196.40

(24) " -63°13'35" 199.26

OW#2 -62°48'27" 208.24

B-3 -51°50'28" 202.19

B5 -68°28'31" 157.71

B-4 -68°01'07" 216.32

B-6 -54°28'50" 250.12

B-7 -53°57'51" 291.73

B-1 -48°44'42" 305.06

B-8 -44°48'33" 293.33

OW-1 -48°53'35" 292.08

FN6 -46°36'20" 307.42

FN7 -47°13'01" 514.73

TP-2 -58°55'03" 894.10

CONT.!

(43)

TO	BS	FS	HA	DIST
TP-2	P.O.T. D		0°00'00"	-

(25) Bldg. Corner 73°39'27" 152.22

(26) " 79°00'47" 188.98

TP-3 100°45'49" 198.00

TP-3	TP-2		0°00'00"	-
------	------	--	----------	---

FN 5 -124°03'45" 41.50

(27) Bldg. Corner 102°56'25" 94.40

P.O.T. E	P.O.T. 'B'		0°00'00"	-
----------	------------	--	----------	---

(2) 28°25'37"

(3) 52°29'20"

(28) 67°36'39"

CORNER OF WELL HOUSE  
ON WESTERN CO. PLAT

P.O.T. B	P.O.T. A		0°00'00"	-
----------	----------	--	----------	---

OW-4 47°16'58" 65.91

Hamlet - BORING & WELL ELEVATIONS  
7-18-91  
T.M.G.N.  
G.A.P.

STA	+	HT	-	RR	EL.	From Bench LEVEL P-41
TP-5	3.38	3654.13			3650.75	
OW-1						
	GND			5.84	3648.3	
	CSG			6.03	3648.10	
OW-2						
	GND			5.35	3648.8	
	CSG			6.13	3648.00	
OW-3						
	GND			6.07	3648.1	
	CSG			6.18	3647.95	
B-1	GND			5.76	3648.4	
B-3	GND			5.87	3648.3	
B-4	GND			5.20	3648.9	
B-5	GND			5.45	3648.7	
B-6	GND			5.69	3648.4	
B-7	GND			5.67	3648.5	
B-8	GND			5.90	3648.2	
TP-A						
	4.76	3652.64		6.25	3647.88	
OW-4						
	GND			5.78	3646.9	
	CSG			5.75	3646.89	
TP-A						
	4.24	3654.12		4.74	3647.88	
TP-5						
				3.37	3650.75	



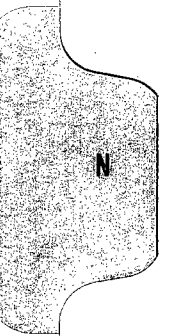
POINT	DESCRIPTION	N	E
OW-1	OBSERVATION WELL	1221.08	1475.36
OW-2	"	1186.22	1378.49
OW-3	"	1027.07	1286.80
OW-4	"	1054.85	1866.56
B-1	BORING LOCATION	1230.34	1484.49
B-2	"	DESTROYED	
B-3	"	1159.98	1408.25
B-4	"	1201.59	1364.30
B-5	"	1147.71	1341.19
B-6	"	1204.58	1428.64
B-7	"	1236.91	1454.95
B-8	"	1215.99	1499.76
FN-1	FENCE CORNER	1090.00	1000.00
FN-2	"	1194.00	1091.81
FN-3	"	1168.77	1122.90
FN-4	"	1268.46	1204.91
FN-5	"	1426.08	1293.29
FN-6	"	1224.38	1494.53
FN-7	"	1378.78	1632.95
FN-8	"	1000.00	1952.08
(7)	BLDG. CORNER	1292.39	1389.25
(8)	SUMP	1181.95	1280.61
(9)	"	1167.96	1296.82
(10)	WATER WELL	1198.81	1271.71
(12)	WELL HOUSE	1202.29	1266.09
(13)	"	1191.44	1278.40
(14)	CORNER OF SLAB	1149.28	1318.35
(15)	BLDG. CORNER	1161.02	1328.98
(16)	CORNER OF SLAB	1148.17	1344.31
(17)	"	1178.35	1370.42
(18)	"	1185.01	1363.01
(19)	"	1193.60	1366.73
(20)	BLDG. CORNER	1199.10	1361.96
(21)	CORNER OF PIT	1178.90	1373.09
(22)	" " "	1176.11	1395.21
(23)	" " "	1167.50	1387.50
(24)	" " "	1178.90	1373.09
(25)	BLDG. CORNER	1291.60	1287.96
(26)	"	1317.80	1257.69
(27)	"	1330.53	1210.54
(28)	WELL HOUSE	983.52	1264.98
(29)	ON WESTERN CO.	983.40	1275.17
(30)	PROPERTY	991.58	1275.17
(31)		991.62	1264.98

ENSR - Homco

SUMMARY

	GROUND EL	TUBING EL
OW-1	3648.3	3648.10
OW-2	3648.8	3648.00
OW-3	3648.1	3647.95
OW-4	3646.9	3646.89
	3648.4	
	3648.3	
	3648.9	
	3648.7	
	3648.4	
	3648.5	
	3648.7	

Sum U.S.S.  
1969 Det.



**APPENDIX N**

**OBSERVATION WELL SAMPLING METHOD AND RECORD**

### Well Sampling Method

Observation wells were sampled according to the following steps:

- 1) The wells were sampled in order from least to most "contaminated" as determined by field screening. This order was OW4, OW2, OW3, OW1.
- 2) The well was inspected for evidence of tempering or damage.
- 3) A plastic sheet, centering on the well head, was spread around the sampling area.
- 4) The static water level and total depth were measured with an ORS brand interface probe. The well volume was calculated.
- 5) The field measurement devices (ph, specific conductance and DO) were calibrated.
- 6) The well was evacuated using a 1.8-inch-ID, Grundfos brand, electric submersible pump. A dedicated discharge hose was used and the step-wise decontamination procedures described in Appendix D were used on the pump. Three well volumes or sufficient volumes for field measured parameters (whichever were greater) were removed from the well. Produced fluids were placed in labelled 55-gallon drums until an OCD-approved disposal method has been determined.
- 7) Immediately after evacuation, the well was sampled by gently lowering a Voss Technologies brand, disposable bailer down the well on dedicated nylon cord. The bailer was lowered to the mid-point of the well screen. Samples for volatile organic compound analyses were obtained from the first bailer using a capillary tube attachment which prevented volatilization from cascading or bubbling. During sampling, a dedicated standard tyvek and new PVC gloves were worn by the sampler.
- 8) Samples were labelled in the field and a chain-of-custody form was filled out. Samples were sealed, with ice, in a cooler with labelled security tape and sent to the analytical laboratory for "next morning" delivery. Receipt of sample by the laboratory was verified the following day.

One equipment blank (EB) was collected by pouring deionized water through the bailer used in OW1 (prior to use in that well). One duplicate (OW1D) was also collected from OW1. One trip



blank accompanied the sample bottles from the laboratory to the field and accompanied the filled bottles back to the laboratory.

Water samples were collected from the HOMCO water supply well by opening a "bung" located in the discharge line before the filtration and tank system. Sample collection did not begin until the pump was heard/felt to turn on and standing water inside in the pipe was allowed to discharge.

A water sample was not obtained from the Western Company of North America water supply well because permission could not be obtained.

On July 16, 1991, a contractor excavating a hole next to OW2 damaged the well with a backhoe bucket. The damage consisted of tearing out the protective manhole, tearing off the screw-down plug and cracking the casing to a depth of 6.1 inches below the surface. Some sand fell down the well. The well was repaired by ENSR on July 17, 1991 and it was extensively pumped prior to sampling.

Project No.: 3519-010-235 Project Name: Hmco 135  
Location: Hobbs, New Mexico

Sample No.: NA Sample Location: Western Water Supply Well  
Weather Conditions: clear, light wind, 100°F

**Well Evaluation and Observations:**

Material: \_\_\_\_\_ Diameter: \_\_\_\_\_  
Vented: \_\_\_\_\_ Capped: \_\_\_\_\_  
Notched: \_\_\_\_\_ Lock: \_\_\_\_\_  
Cement Pad: \_\_\_\_\_ Protective Casing: \_\_\_\_\_  
Comments: \_\_\_\_\_

**Well Data:**

Total Depth: \_\_\_\_\_ ft.  
Depth to Fluid: \_\_\_\_\_ ft.  
Depth to Water: \_\_\_\_\_ ft.  
Height of Floater: \_\_\_\_\_ ft.  
Height of Water Column: \_\_\_\_\_ ft.

**Well Evacuation:**

Beginning Time: \_\_\_\_\_ End Time: \_\_\_\_\_  
Method: \_\_\_\_\_  
Volume Purged: \_\_\_\_\_ gal.

**Sampling Data:**

Beginning Time: \_\_\_\_\_ End Time: \_\_\_\_\_  
Method: \_\_\_\_\_

Sampling Depth/Interval \_\_\_\_\_ ft.  
Field Measurements:

pH(1): _____	Specific Cond.(1): _____	T(°C) _____
pH(2): _____	Specific Cond.(2): _____	
pH(3): _____	Specific Cond.(2): _____	
pH(4): _____	Specific Cond.(2): _____	

*Well could not be inspected or sampled - could not obtain permission from Western*

Sampler Signature: Daniel Daman Date: 7-17-91

*NA: not applicable*

Project No.: 3519-010-235 Project Name: Homic 135  
Location: H-bbs, New Mexico

Sample No.: WS Sample Location: Homic Wat. Supply well  
Weather Conditions: clear, brisk wind ~100°F

**Well Evaluation and Observations:**

Material: unknown Diameter: 4"?  
Vented: no Capped: bolt-dam  
Notched: no Lock: no  
Cement Pad: NA Protective Casing: NA  
Comments: grade completion inside purphouse

**Well Data:**

Total Depth: unknown ft.  
Depth to Fluid: ↓ ft.  
Depth to Water: ↓ ft.  
Height of Floater: ↓ ft.  
Height of Water Column: ↓ ft.

**Well Evacuation:**

Beginning Time: 13:10 End Time: 13:20  
Method: open discharge line  
Volume Purged: ~ 30-50 gal.

**Sampling Data:**

Beginning Time: 13:20 End Time: 13:30  
Method: drip from bung hole screw

Sampling Depth/Interval at surface ft.  
Field Measurements:

pH(1): <u>NA</u>	Specific Cond. (1): <u>          </u>	T(°C) <u>          </u>
pH(2): <u>↓</u>	Specific Cond. (2): <u>          </u>	
pH(3): <u>↓</u>	Specific Cond. (2): <u>          </u>	
pH(4): <u>↓</u>	Specific Cond. (2): <u>          </u>	

NA: not analyzed

Sampler Signature: Darin Dunn Date: 7-18-91

13:20 2x 40ml VOA - no bubbles  
13:25 2x 10ml  
13:30 1x 10ml

Project No.: 3514-010-235 Project Name: Hamco 135  
Location: Hobbs, New Mexico  
Sample No.: OW 1 and OWID Sample Location: OW 1  
Weather Conditions: clear, brisk wind ~100°F

Well Evaluation and Observations:

Material: Sched 40 PVC Diameter: 4 inch ID  
Vented: NO Capped: yes - screw down plug  
Notched: yes Lock: yes  
Cement Pad: good condition Protective Casing: good condition  
Comments: none

Well Data:

Total Depth: 64.6 ft.  
Depth to Fluid: 53.57 ft.  
Depth to Water: 53.57 ft.  
Height of Floaters or sinker: none ft.  
Height of Water Column: 11.03 ⇒ 7.3 gallons ft.

Well Evacuation:

Beginning Time: 10:31 End Time: 11:32  
Method: Grundfos brand 1.8 inch OD, electric submersible  
Volume Purged: 43.8 gal.

Sampling Data:

Beginning Time: 11:53 End Time: 12:21  
Method: Voss Technology brand disposable bailer with dedicated nylon cord.

Time	Volume	Depth	Field Measurements:	ft.
10:31	0	1.0	pH(1): <u>7.40</u> Specific Cond. (1): <u>1350</u> T(°C) <u>27</u>	
10:39	1	1.2	pH(2): <u>7.61</u> Specific Cond. (2): <u>1150</u> <u>25</u>	
10:50	2	1.2	pH(3): <u>7.69</u> Specific Cond. (2): <u>1150</u> <u>24</u>	
11:00	3	1.3	pH(4): <u>7.72</u> Specific Cond. (2): <u>1100</u> <u>24</u>	
11:10	4	1.3	<u>7.68</u> <u>1150</u> <u>24</u>	
11:20	5	1.3	<u>7.68</u> <u>1150</u> <u>24</u>	
11:30	6	1.5	<u>7.68</u> <u>1150</u> <u>23.5</u>	

Sampler Signature: Dan Dan Date: 7-18-91

11:53 - equipment blank  
Sample + duplicate - 12:21 - 4 x 40 ml - no bubbles  
- 4 x 10 ml  
- 2 x 10 ml

Project No.: 3519-010-235 Project Name: Homco/3S  
Location: Hobbs, New Mexico

Sample No.: OW2 Sample Location: OW2  
Weather Conditions: clear, brisk wind ~ 100°F

**Well Evaluation and Observations:**

Material: Sched 40 PVC Diameter: 4 inch ID  
Vented: No Capped: see comments  
Notched: yes Lock: see comments  
Cement Pad: see comments Protective Casing: see comments  
Comments: on 7-16-91 a contractor to Homco performing excavating work with a backhoe tore off the protective casing, exposing the top of casing with broken concrete seals was broken and casing to depth of 6.1". Some dirt went down the well. The well was repaired by ENSR by 10:58 on 7-17-91.

Well Data: by ENSR by 10:58 on 7-17-91.  
Total Depth: 65.5 ft.  
Depth to Fluid: 52.23 ft.  
Depth to Water: 52.23 ft.  
Height of Floater: or sinker none ft.  
Height of Water Column: 12.52 → 5.26 gallons ft.

**Well Evacuation:**

Beginning Time: 18:01 End Time: 20:10  
Method: Grundfos 1.8 inch ID electric submersible  
Volume Purged: 99.12 gal.

**Sampling Data:**

Beginning Time: 20:35 End Time: 20:45  
Method: Voss Technologies brand disposable bailer with dedicated nylon cord using capillary nipple for VOA bottles  
Sampling Depth/Interval: 59.24 ft.

Time	Volume	mg/L DO	Field Measurements:	Specific Cond. (1):	umhos/cm	T (°C)
18:01	0	4.4	st. cloudy pH(1): <u>7.18</u>	Specific Cond. (1): <u>1250</u>		24
18:12	1	3.8	" " pH(2): <u>7.35</u>	Specific Cond. (2): <u>1250</u>		23
18:30	2	4.4	cloudy pH(3): <u>7.40</u>	Specific Cond. (2): <u>1250</u>		23
18:45	4	4.8	pH(4): <u>7.39</u>	Specific Cond. (2): <u>1250</u>		23
19:00	6	5.0	<u>7.38</u>	<u>1300</u>		23
19:15	8	5.3	<u>7.37</u>	<u>1300</u>		23
19:30	10	5.1	<u>7.40</u>	<u>1300</u>		23
19:45	12	5.2	<u>7.38</u>	<u>1300</u>		23
20:00	14	5.1	<u>7.40</u>	<u>1300</u>		22

Sampler Signature: David D... Date: 7-17-91

2 x 40ML - VOA @ 20:35 - no bubbles  
2 x 100ml - @ 20:40  
1 x 100ml @ 20:45

Project No.: 3519-210-235 Project Name: Homico 135  
Location: Hobbs, New Mexico

Sample No.: OW3 Sample Location: OW3  
Weather Conditions: clear, light wind ~100°F

**Well Evaluation and Observations:**

Material: Sched 40 PVC Diameter: 4 inch ID  
Vented: no Capped: yes - screw down plug  
Notched: yes Lock: yes  
Cement Pad: good condition Protective Casing: good condition  
Comments: ✓ none

**Well Data:**

Total Depth: 68.8 ft.  
Depth to Fluid: 52.67 ft.  
Depth to Water: 52.67 ft.  
Height of Floaters or sinkers: none ft.  
Height of Water Column: 16.13 → 109 gals ft.

**Well Evacuation:**

Beginning Time: 8:05 End Time: 7:10  
Method: Grundfos brand 1/2 inch OD electric submersible  
Volume Purged: 60 gal.

**Sampling Data:**

Beginning Time: 9:15 End Time: 9:25  
Method: Voss brand disposable bailer with dedicated 1/4 inch cord

Time	Volume	Depth	Sampling Depth/Interval	ft.
8:05	0	3.1	Field Measurements:	
8:19	1	3.0	pH(1): <u>6.85</u>	Specific Cond. (1): <u>1100</u> T(°C) <u>21.5</u>
8:30	2	3.2	pH(2): <u>7.10</u>	Specific Cond. (2): <u>1100</u> <u>21</u>
8:40	3	3.3	pH(3): <u>7.18</u>	Specific Cond. (2): <u>1050</u> <u>21</u>
8:50	4	3.3	pH(4): <u>7.20</u>	Specific Cond. (2): <u>1050</u> <u>21</u>
9:00	5	3.2	<u>7.24</u>	<u>1050</u> <u>21</u>
9:10	6	3.2	<u>7.17</u>	<u>1100</u> <u>21</u>
			<u>7.16</u>	<u>1050</u> <u>21</u>

Sampler Signature: Dennis D... Date: 7-18-91

2x40 mL @ 9:15 - NO bubbles  
2x12 gmb @ 9:20  
1x12 gmb @ 9:25

Project No.: 3519-10-23 Project Name: HAMCO 135  
Location: Hill Country, TX

Sample No.: 0014 Sample Location: OW4  
Weather Conditions: clear, brisk wind ~ 100°F

**Well Evaluation and Observations:**

Material: 8-in. ID PVC Diameter: 4 in. ID  
Vented: no Capped: yes, screw down cap  
Notched: yes Lock: yes  
Cement Pad: in good condition Protective Casing: good condition  
Comments: none

**Well Data:**

Total Depth: 64.5 ft.  
Depth to Fluid: 54.49 ft.  
Depth to Water: 54.49 ft.  
Height of Floater or sinker: none ft.  
Height of Water Column: 10.01 - 16.01 ft.

**Well Evacuation:**

Beginning Time: 14:44 End Time: 16:03  
Method: Grout fill, 15.03 gal. grout  
Volume Purged: 33 gal.

**Sampling Data:**

Beginning Time: 16:25 End Time: 16:32  
Method: Voss Termination in and down hole, 10 min. with capillary, 10 min. with capillary

Time	Volume	mg/L DO	Sampling Depth/Interval	Field Measurements:
14:44	0	3.7	clear	pH(1): <u>6.95</u> Specific Cond.(1): <u>2600</u> T(°C) <u>25</u>
14:59	1	3.7	st. cloudy	pH(2): <u>7.21</u> Specific Cond.(2): <u>2400</u> <u>25</u>
15:13	2	3.9	clear	pH(3): <u>7.21</u> Specific Cond.(2): <u>2350</u> <u>24</u>
15:25	3	4.2	clear	pH(4): <u>7.23</u> Specific Cond.(2): <u>2350</u> <u>26</u>
15:44	4	4.1	clear	<u>7.20</u> <u>2300</u> <u>24</u>
16:01	5	4.2	clear	<u>7.20</u> <u>2300</u> <u>24</u>

Sampler Signature: Daniel D. Drown Date: 7-17-91

2x40ml VOA @ 16:25 - no bubbles  
2x18 amber @ 16:28  
1x18 amber @ 16:32





