RESULTS OF QUARTERLY GROUNDWATER MONITORING NOVEMBER 1994 FORMER PENSKE TRUCK LEASING CO. FACILITY 725 JULIE ANN WAY OAKLAND, CALIFORNIA

December 1994

Prepared by

Geraghty & Miller, Inc.
1050 Marina Way South
Richmond, CA 94804
(510) 233-3200

GERAGHTY
& MILLER, INC.
Environmental Services

A **Heidemij** company

December 22, 1994
Project No. RC0019.005

Mr. Richard G. Saut
Environmental Project Manager
Penske Truck Leasing Co.
Route 10, Green Hills
P.O. Box 563
Reading, PA 19603

SUBJECT: Results of Quarterly Groundwater Monitoring, November 1994
Former Penske Truck Leasing Facility
725 Julie Ann Way, Oakland, California.

Dear Mr. Saut:

This report presents the results of the quarterly groundwater monitoring performed on November 22 and 23, 1994, at the former Penske Truck Leasing Co. (Penske) facility referenced above (Figure 1). The scope of work for this project was presented to Penske in a Geraghty & Miller, Inc. (Geraghty & Miller) letter dated July 2, 1992. The monitoring program consists of collecting quarterly depth-to-water measurements and water samples from the eight monitor wells located at the project site. Three of these groundwater monitor wells were installed during July 1994 as part of a program of additional site assessment activities and implementation of a non-attainment area remedial approach approved by the Alameda County Health Care Services Agency (ACHCSA) and the California Regional Water Quality Control Board — San Francisco Bay Region (RWQCB).

FIELD PROCEDURES

The quarterly groundwater monitoring was performed on November 22 and 23, 1994. Groundwater samples were collected from Monitor Wells MW-1 through MW-8. The monitor-well locations are shown in Figure 2.

Prior to sampling, depth-to-water and total-well-depth measurements were obtained from each well. Additionally, the wells were checked for the presence of liquid-phase hydrocarbons. Liquid-phase hydrocarbons were not observed in any of the wells during this monitoring event. Each well sampled was purged of approximately three to four casing volumes of water using a

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January 16, 1995
Project No. RC0019.005

Mr. Barney Chan
Division of Hazardous Materials
Department of Environmental Health
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Room 250
Alameda, CA 94502

SUBJECT: Results of Quarterly Groundwater Monitoring, November 1994
Former Penske Truck Leasing Facility
725 Julie Ann Way, Oakland, California.

Dear Mr. Chan:

The above referenced report is being forwarded to you at the request of Penske Truck Leasing Co. The report details the results of the quarterly groundwater monitoring well sampling for November 1994 at the former Penske Truck Leasing Facility at 725 Julie Ann Way, Oakland. The quarterly sampling has been completed in response to the requirements for groundwater sampling contained in the Alameda County Health Care Services, Department of Environmental Health letter to Penske dated October 24, 1989.

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

Sincerely,
GERAGHTY & MILLER, INC.

Paul V. Hehn
Project Geologist/Project Manager

Attachment: Results of Quarterly Groundwater Monitoring, November 1994

cc: Mr. Richard G, Saut
Penske Truck Leasing Co.

PENSKE
Truck Leasing

Via Facsimile (510) 233-3204

January 13, 1995

Mr. Paul Hahn
Geraghty & Miller, Inc.
1050 Marina Way South
Richmond, CA 94804

Re: Distribution of Report
Quarterly Groundwater Monitoring Report (Nov. 1994)
Former Penske Truck Leasing Facility
725 Julie Ann Way
Oakland, CA

Dear Paul:

I have received and approve the above referenced report for release. Please distribute copies of the report to the appropriate regulatory agencies as needed.

If you have questions, please call my office at (610) 775-6010.

Sincerely,

Richard G. Saut

Richard G. Saut
Manager, Environmental Projects

RGS:jls
cc: M. Althen
I3011395.rgs

1-inch diaphragm pump. All equipment that entered the well was washed in a solution of nonphosphate detergent and water and then triple rinsed in deionized water prior to sampling each well. Purged water was monitored for pH, temperature, and specific conductance. A summary of the field data is presented in Table 1. Following purging, groundwater samples were collected using a disposable polyethylene bailer, with a new bailer used for each well. The purged water was stored in 55-gallon drums and retained onsite for subsequent disposal by Penske.

A trip blank, consisting of a sample vial containing laboratory-grade water, accompanied the sample vials from the laboratory to the site and back to the laboratory, and was also submitted for analysis. The purpose of the trip blank is to assess whether any of the compounds analyzed for may have been imparted to the samples by air in the vicinity of the sample bottles during shipping, by the sample container, by the preservative, or by other exogenous sources.

Groundwater samples were put into the appropriate USEPA-approved containers, placed on ice, and transported to Superior Precision Analytical, Inc., in San Francisco, California, along with appropriate chain-of-custody documentation. The water samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (USEPA Method 8015, modified), for TPH as diesel (USEPA Method 8015, modified), for benzene, toluene, ethylbenzene, and total xylenes (BTEX) (USEPA Method 8020), and for total dissolved solids (USEPA Method 160.1).

RESULTS

SHALLOW GROUNDWATER FLOW

A summary of the depth-to-water data is presented in Table 1. Depth to water ranged from 5.61 feet (Monitor Well MW-7) to 6.76 feet (Monitor Well MW-3) below the ground surface. A contour map based on the groundwater elevation data collected November 22 and 23, 1994, is presented in Figure 2. The historic shallow groundwater flow is toward the west; however, there are local variations in flow directions at the facility, as indicated by the groundwater contours from the data collected on November 22 and 23, 1994.

The difference in the elevation of the groundwater surface between Wells MW-2 and MW-4 is 0.35 feet, producing a hydraulic gradient (slope of the groundwater surface) of approximately 0.0037 foot/foot in a west-northwesterly direction.

GROUNDWATER ANALYTICAL RESULTS

A summary of the groundwater analytical results is presented in Table 2. Copies of the certified laboratory reports and chain-of-custody documentation are included in Attachment 1. TPH as gasoline was detected in the groundwater sample collected from Monitor Well MW-4 (100 micrograms per liter [µg/L]). TPH as diesel was detected in the groundwater samples collected from Monitor Wells MW-1 (1,700 µg/L), MW-2 (51 µg/L), MW-4 (1,800 µg/L), MW-5 (160 µg/L), MW-7 (150 µg/L), and MW-8 (570 µg/L). Benzene was detected in the groundwater samples collected from Monitor Wells MW-4 (9.9 µg/L), MW-7 (2.4 µg/L), and MW-8 (1.5 µg/L). All other BTEX constituent results are presented in Table 2. TPH as gasoline and BTEX were not detected in the trip blank. Additional analysis of total dissolved solids in the groundwater samples detected concentrations ranging from 1,800 milligrams per liter (mg/L) from Monitor Well MW-6 to 6,300 mg/L from Monitor Well MW-8 (Table 2).

FIELD PARAMETERS

As in all previous quarterly sampling events at this facility, the specific conductance measurements for the groundwater purged during the sampling continue to be high (Table 1). The high specific conductance measurements were verified by correspondingly high concentrations of total dissolved solids detected in the groundwater samples (Table 2).

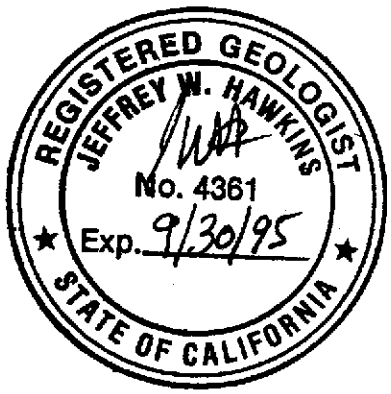
Geraghty & Miller appreciates the opportunity to be of service to Penske. If you have any questions regarding this report, please do not hesitate to call us.

Sincerely,
GERAGHTY & MILLER, INC.

Paul V. Hehn
Project Geologist/Project Manager

Jeffrey W. Hawkins, R.G.
Senior Scientist

Gary W. Keyes
Principal Engineer/Associate
Richmond, California Office Manager



Attachments: References

Table 1	Summary of Field Sampling, Depth-to-Water, and Casing Elevation Data
Table 2	Summary of Groundwater Analytical Results – Monthly and Quarterly Sampling
Figure 1	Site Location Map
Figure 2	Shallow Groundwater Contours
Figure 2	Benzene Concentrations
Attachment 1	Copies of Certified Laboratory Reports and Chain-of-Custody Documentation

REFERENCES

Geraghty & Miller, Inc. November 15, 1990. Results of Initial Soil and Ground-Water Assessment Activities, Former Penske Truck Leasing Co. Facility, 725 Julie Ann Way, Oakland, California.

———. February 7, 1991. Scope of Work and Project Budget Estimate for Ground-Water Monitoring Activities for the Period February 1991 through February 1992, Former Penske Truck Leasing Co. Facility, 725 Julie Ann Way, Oakland, California.

———. July 2, 1992. Scope of Work and Project Budget Estimate for Ground-Water Monitoring Activities for the Period July 1992 through April 1993, Former Penske Truck Leasing Co. Facility, 725 Julie Ann Way, Oakland, California.

Table 1: Summary of Field Sampling, Depth-to-Water, and Casing Elevation Data
Former Penske Truck Leasing Facility,
725 Julie Ann Way, Oakland, California.

Well	Date	Depth to Water (a) (feet)	Top of Casing Elevation (feet)	Top of Water Elevation (feet)	Measured Depth of Well (a) (feet)	Calculated Purge Volume (b) (gallons)	Actual Purge Volume (gallons)	Field Measurements pH	Temp. (°F)	SC (µS/cm)	Casing Diameter (inches)
MW-1	2-Oct-90	9.76	5.42	-4.34	37.28	58.56	47	6.71	87.5	5,280	4
	28-Feb-91	8.54	5.42	-3.12	33.58	65.00	70	6.30	66.0	9,700	
	25-Mar-91	7.35	5.42	-1.93	33.50	71.00	75	6.50	64.0	7,200	
	1-May-91	7.91	5.42	-2.49	33.70	67.00	51	6.20	65.0	3,500	
	5-Aug-91	8.63	5.42	-3.21	NM	51.00	68	NM	63.6	7,690	
	23-Oct-91	9.00	5.42	-3.58	33.77	67.00	67	9.40	64.2	7,470	
	6-Jan-92	8.52	5.42	-3.10	33.87	65.00	69	9.40	63.2	6,640	
	20-Jul-92	7.94	5.42	-2.52	33.95	65.02	66	7.20	65.7	6,410	
	23-Oct-92	8.62	5.42	-3.20	33.57	64.80	60	7.50	69.8	1,930	
	4-Feb-93	6.55	5.43 (c)	-1.12	33.84	70.96	71	8.02	65.0	9,520	
	8-Apr-93	6.37	5.43	-0.94	33.80	71.32	65	6.60	66.7	>2,000	
	6-Aug-93	7.39	5.43	-1.96	33.88	68.67	69	7.22	68.1	5,890	
	28-Oct-93	7.85	5.43	-2.42	33.80	67.48	68	7.00	68.3	5,910	
	1-Feb-94	7.25	5.43	-1.82	33.99	69.52	70	7.63	63.2	7,610	
	12-Sep-94	6.75	5.43	-1.32	33.95	70.72	70	6.90	75.8	7,950	
	23-Nov-94	6.13	5.43	-0.70	33.93	72.28	73	6.10	66.2	>2,000	
MW-2	2-Oct-90	10.38	6.21	-4.17	32.97	48.07	47	6.92	86.4	5,460	4
	28-Feb-91	9.19	6.21	-2.98	29.39	53.00	55	6.60	64.0	9,000	
	25-Mar-91	7.95	6.21	-1.74	29.39	57.00	70	6.60	63.0	6,400	
	1-May-91	8.58	6.21	-2.37	29.60	55.00	50	6.20	64.0	3,000	
	5-Aug-91	9.33	6.21	-3.12	NM	40.00	54	NM	65.1	5,680	
	23-Oct-91	9.57	6.21	-3.36	29.35	52.00	53	7.60	65.4	7,970	
	6-Jan-92	9.08	6.21	-2.87	29.50	53.00	53	9.18	62.8	6,990	
	20-Jul-92	8.60	6.21	-2.39	29.45	54.21	55	6.50	65.2	6,690	
	23-Oct-92	9.33	6.21	-3.12	29.18	51.60	55	7.20	69.8	1,900	
	4-Feb-93	7.17	6.20 (c)	-0.97	29.37	57.72	55	8.25	64.0	10,310	
	8-Apr-93	6.95	6.20	-0.75	29.32	58.16	60	6.90	66.7	>2,000	
	6-Aug-93	8.05	6.20	-1.85	29.33	55.33	66.5	7.26	66.4	6,250	
	28-Oct-93	8.50	6.20	-2.30	29.43	54.40	55	7.08	71.2	6,780	
	1-Feb-94	7.87	6.20	-1.67	29.54	56.32	57	8.35	62.4	8,250	
	12-Sep-94	7.42	6.20	-1.22	29.45	57.24	66	(e)	69.9	8,130	
	22-Nov-94	6.75	6.20	-0.55	29.50	59.15	60	6.8	67.6	>2,000	

Table 1: Summary of Field Sampling, Depth-to-Water, and Casing Elevation Data
Former Penske Truck Leasing Facility,
725 Julie Ann Way, Oakland, California.

Well	Date	Depth to Water (a) (feet)	Top of Casing Elevation (feet)	Top of Water Elevation (feet)	Measured Depth of Well (a) (feet)	Calculated Purge Volume (b) (gallons)	Actual Purge Volume (gallons)	Field Measurements pH	Temp. (°F)	SC (µS/cm)	Casing Diameter (inches)
MW-3	2-Oct-90	10.38	6.10	-4.28	37.08	56.82	54	6.89	88.4	639	4
	28-Feb-91	9.45	6.10	-3.35	31.61	58.00	60	6.10	66.0	1,020	
	25-Mar-91	7.98	6.10	-1.88	31.60	70.00	75	6.40	65.0	8,200	
	1-May-91	8.58	6.10	-2.48	33.70	65.00	50	6.40	67.0	4,100	
	5-Aug-91	9.26	6.10	-3.16	NM	50.00	67	NM	64.1	6,190	
	23-Oct-91	9.60	6.10	-3.50	33.48	66.00	66	7.30	67.3	8,430	
	6-Jan-92	9.08	6.10	-2.98	33.66	64.00	64	9.98	61.7	7,010	
	20-Jul-92	8.59	6.10	-2.49	33.76	65.44	66	6.80	66.0	7,540	
	23-Oct-92	9.30	6.10	-3.20	33.47	63.40	65	7.50	71.6	1,800	
	4-Feb-93	7.19	6.10 (c)	-1.09	33.65	68.79	65	8.29	64.0	10,290	
	8-Apr-93	6.98	6.10	-0.88	33.55	69.08	72	6.90	68.2	>2,000	
	6-Aug-93	8.01	6.10	-1.91	33.55	66.40	56 (d)	7.43	67.3	6,490	
	28-Oct-93	8.45	6.10	-2.35	33.60	65.40	66	7.02	72.0	6,590	
	1-Feb-94	8.03	6.10	-1.93	33.74	66.84	67	8.32	63.3	8,400	
	12-Sep-94	7.39	6.10	-1.29	33.70	68.40	70	7.73	68.7	8,030	
	22-Nov-94	6.76	6.10	-0.66	33.75	70.17	70	6.60	65.8	>2,000	
MW-4	4-Feb-93	6.68	5.18 (c)	-1.50	32.70	64.38	60 (d)	NM	63.5	14,100	4
	8-Apr-93	6.21	5.18	-1.03	33.04	69.76	70	6.80	69.1	>2,000	
	6-Aug-93	7.20	5.18	-2.02	32.92	66.87	60 (d)	7.44	68.9	13,900	
	28-Oct-93	7.64	5.18	-2.46	32.98	65.88	66	6.79	72.1	11,940	
	1-Feb-94	7.26	5.18	-2.08	33.31	67.72	68	8.65	63.6	18,110	
	12-Sep-94	6.55	5.18	-1.37	33.41	69.84	60 (d)	6.03	77.5	16,710	
	23-Nov-94	6.08	5.18	-0.90	33.35	70.90	55 (d)	5.60	66.7	>2,000	
MW-5	4-Feb-93	8.94	4.71 (c)	-4.23	31.40	61.65	40 (d)	8.43	63.2	16,870	4
	8-Apr-93	5.43	4.71	-0.72	31.36	67.42	68	7.20	68.0	>2,000	
	6-Aug-93	6.19	4.71	-1.48	31.30	65.29	68	7.47	63.6	5,180	
	28-Oct-93	6.86	4.71	-2.15	31.43	62.72	48 (d)	7.12	70.6	4,980	
	1-Feb-94	6.48	4.71	-1.77	31.43	64.84	49 (d)	(e)	63.1	6,120	
	12-Sep-94	5.89	4.71	-1.18	31.43	66.40	39 (d)	(e)	69.4	5,020	
	22-Nov-94	5.66	4.71	-0.95	31.44	67.02	58 (d)	6.80	68.4	>2,000	

Table 1: Summary of Field Sampling, Depth-to-Water, and Casing Elevation Data
Former Penske Truck Leasing Facility,
725 Julie Ann Way, Oakland, California.

Well	Date	Depth to Water (a) (feet)	Top of Casing Elevation (feet)	Top of Water Elevation (feet)	Measured Depth of Well (a) (feet)	Calculated Purge Volume (b) (gallons)	Actual Purge Volume (gallons)	Field Measurements pH	Temp. (°F)	SC (µS/cm)	Casing Diameter (inches)
MW-6	12-Sep-94	6.56	5.37	-1.19	24.85	47.55	41 (d)	(e)	71.2	12,970	4
	22-Nov-94	6.04	5.37	-0.67	24.88	48.98	50	6.70	66.4	>2,000	
MW-7	12-Sep-94	6.16	5.38	-0.78	28.51	58.08	60	6.65	73.5	7,920	4
	23-Nov-94	5.61	5.38	-0.23	28.46	59.40	60	6.00	64.6	>2,000	
MW-8	12-Sep-94	6.46	5.44	-1.02	25.15	48.56	55	(e)	(e)	11,400	4
	23-Nov-94	6.01	5.44	-0.57	25.66	78.60	75	5.60	61.5	>2,000	

(a) Measured from top of PVC casing.
(b) Based on four casing volumes.
(c) All well elevations resurveyed to site benchmark on February 10, 1993.
(d) Well went dry during purging.
(e) No reading - instrument malfunction.

SC Specific Conductance
(µS/cm) Microsiemens per centimeter
NM Not measured

All elevations are measured relative to a site benchmark (elevation 6.62') based on the City of Oakland datum which is 3 feet higher than mean sea level.

Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
Former Penske Truck Leasing Facility,
725 Julie Ann Way, Oakland, California.

Well	Date	TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl-benzene (b) (µg/L)	Xylenes (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
MW-1	2-Oct-90	170	2,900	20	18	1.9	5.7	- -
	28-Feb-91	260	550	43	1	7	1	- -
	25-Mar-91	73	160	10	ND(<0.3)	0.5	ND(<0.3)	- -
	1-May-91	ND(<50)	(d)	2.2	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	5-Aug-91	310	330	22	5.5	9.5	23	- -
	23-Oct-91	440	1,800	23	21	6.2	35	- -
	6-Jan-92	430	1,600	56	8.4	18	22	- -
	20-Jul-92	ND(<50)	25,000	0.4	0.8	1	2.1	- -
	23-Oct-92	280	6,500	9.3	13	8.2	15	- -
	4-Feb-93	68 (f)	320	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	8-Apr-93	180	7,800	0.5	2.1	0.8	13	- -
	6-Aug-93	740	17,000	75	100	25	130	3,500
	28-Oct-93	140	7,600	4.7	1.9	3.2	5.4	3,500
	1-Feb-94	430	10,000	8.2	1.1	3.5	4.8	3,800
	12-Sep-94	230	22,000	0.7	1.7	2.0	3.7	4,000
	23-Nov-94	ND(<50)	1,700	ND(<0.5)	ND(<0.5)	ND(<0.5)	0.6	3,600
MW-2	2-Oct-90	ND(<50)	80	0.4	ND(<0.3)	ND(<0.3)	0.5	- -
	28-Feb-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	25-Mar-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	1-May-91	ND(<50)	(d)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	5-Aug-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	23-Oct-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	6-Jan-92	11,000	1200 (e)	ND(<0.3)	83	82	940	- -
	20-Jul-92	73	120	1.7	3.3	1.1	9.6	- -
	23-Oct-92	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	0.5	- -
	4-Feb-93	ND(<50)	330 (e)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	8-Apr-93	150	74 (h)	1	2.1	1	13.0	- -
	6-Aug-93	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	990
	28-Oct-93	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	1,500
	1-Feb-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,000
	12-Sep-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,100
	22-Nov-94	ND(<50)	51 (h)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,400

Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
Former Penske Truck Leasing Facility,
725 Julie Ann Way, Oakland, California.

Well	Date	TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl-benzene (b) (µg/L)	Xylenes (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
MW-3	2-Oct-90	ND(<50)	90	28	3.1	0.6	1.5	- -
	28-Feb-91	ND(<50)	ND(<50)	6	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	25-Mar-91	ND(<50)	ND(<50)	0.6	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	1-May-91	ND(<50)	(d)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	5-Aug-91	ND(<50)	ND(<50)	1.7	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	23-Oct-91	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	6-Jan-92	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	20-Jul-92	66	ND(<50)	1.1	2.2	0.7	6.4	- -
	23-Oct-92	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	4-Feb-93	270	ND(<100)(g)	9.8	4.6	4.5	8.7	- -
	8-Apr-93	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	- -
	6-Aug-93	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	3,400
	28-Oct-93	ND(<50)	ND(<50)	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	2,700
	1-Feb-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,400
	12-Sep-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,500
	22-Nov-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,400
MW-4	4-Feb-93	58 (f)	450	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	8-Apr-93	74	220	19	0.4	ND(<0.3)	ND(<0.9)	- -
	6-Aug-93	95	ND(<50)	68	0.9	1.1	ND(<0.9)	5,800
	28-Oct-93	160	600	46	0.7	1.6	1.2	5,200
	1-Feb-94	320	160	290	0.6	6.7	3.2	6,200
	12-Sep-94	390	95	120	3.9	14.0	14.0	6,000
	23-Nov-94	100	1,800	9.9	0.7	1.6	3.8	5,600
MW-5	4-Feb-93	ND(<50)	240	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.3)	- -
	8-Apr-93	ND(<50)	480	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	- -
	6-Aug-93	ND(<50)	120	0.8	ND(<0.3)	ND(<0.3)	ND(<0.9)	2,800
	28-Oct-93	ND(<50)	370	ND(<0.3)	ND(<0.3)	ND(<0.3)	ND(<0.9)	2,400
	1-Feb-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,500
	12-Sep-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,600
	22-Nov-94	ND(<50)	160	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,600

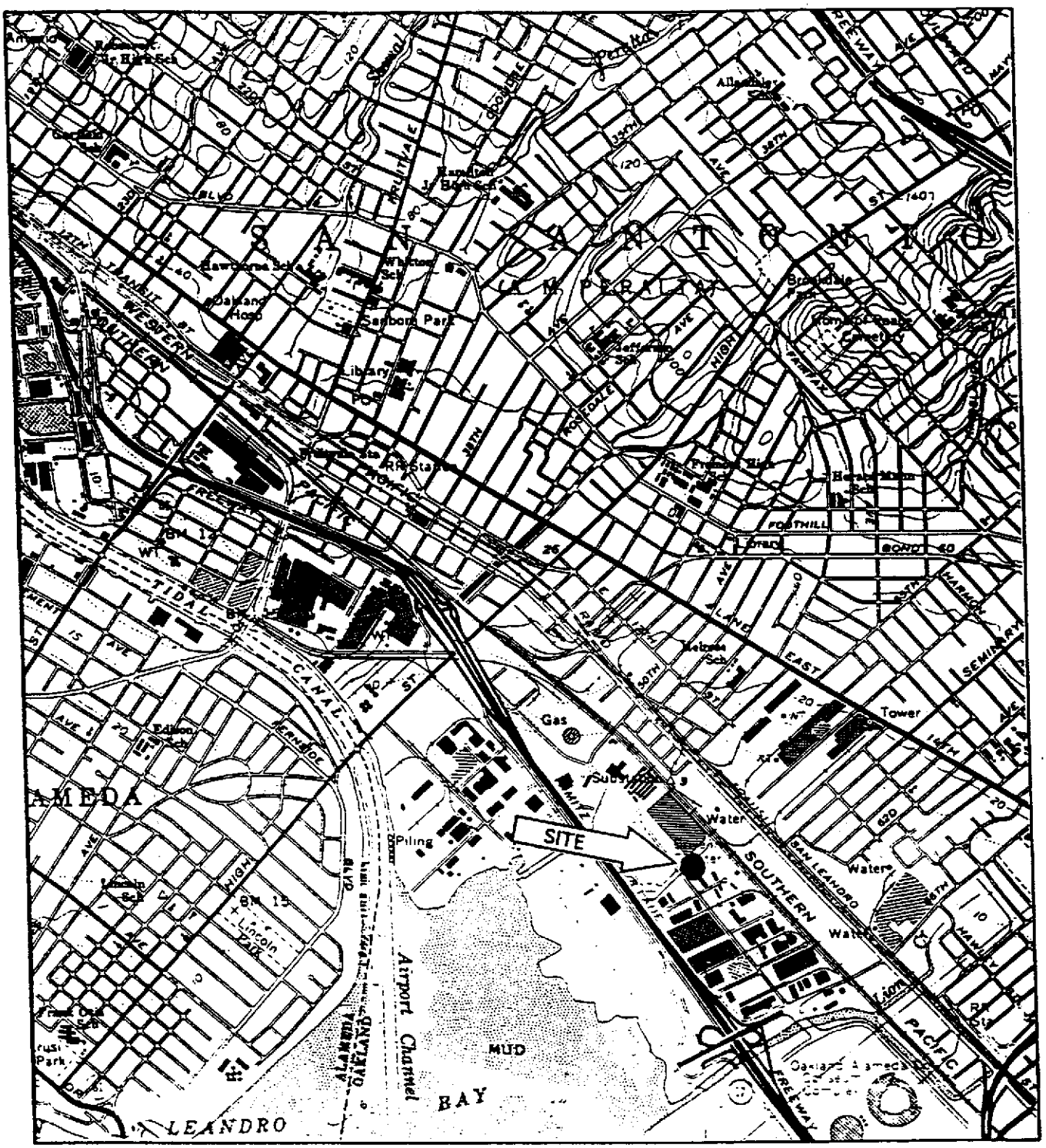
Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
Former Penske Truck Leasing Facility,
725 Julie Ann Way, Oakland, California.

Well	Date	TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl-benzene (b) (µg/L)	Xylenes (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
MW-6	12-Sep-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	560
	22-Nov-94	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	1.5	1,800
MW-7	12-Sep-94	160	620	2.7	1.3	ND(<0.5)	2.1	1,100
	23-Nov-94	ND(<50)	150	2.4	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,600
MW-8	12-Sep-94	170	850	2.7	0.5	ND(<0.5)	2.0	5,500
	23-Nov-94	ND(<50)	570	1.5	ND(<0.5)	ND(<0.5)	ND(<0.5)	6,300

(a) Analyzed by USEPA Method 8015, modified.
(b) Analyzed by USEPA Method 8020.
(c) Analyzed by USEPA Method 160.1.
(d) No results - sample for TPH as diesel not collected.
(e) Diesel range concentration reported. A nonstandard diesel pattern was observed in the chromatogram.
(f) Does not match typical gasoline pattern. Pattern of peaks observed in the chromatograms is indicative of hydrocarbons heavier than gasoline.
(g) Detection limit increased due to insufficient sample amount.
(h) Diesel range concentration reported. The chromatogram shows only a single peak in the diesel range.

( ) Reported detection limit
-- Not analyzed
ND Not detected
µg/L Micrograms per liter
mg/L Milligrams per liter

Analysis by Superior Analytical Laboratories, Inc., San Francisco and Martinez, California.



Reference: USGS Oakland East, CA 7 1/2 Min. Quad
Scale: 1: 24,000

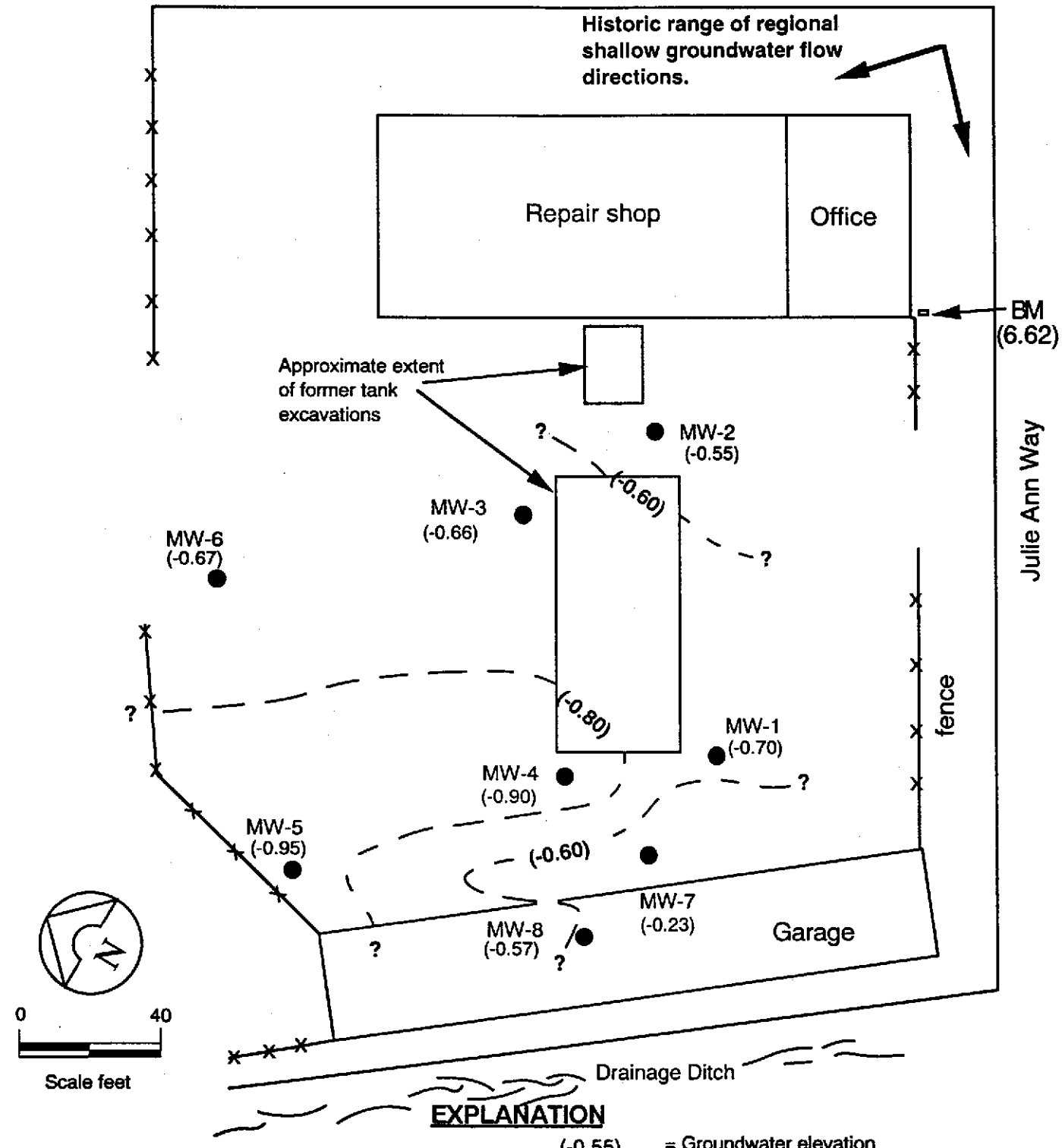
N

GERAGHTY & MILLER, INC.
Environmental Services

Proj. No. RC0019.000

SITE LOCATION MAP
Former Penske Truck Leasing Co. Facility
725 Julie Ann Way
Oakland, California

FIGURE
1

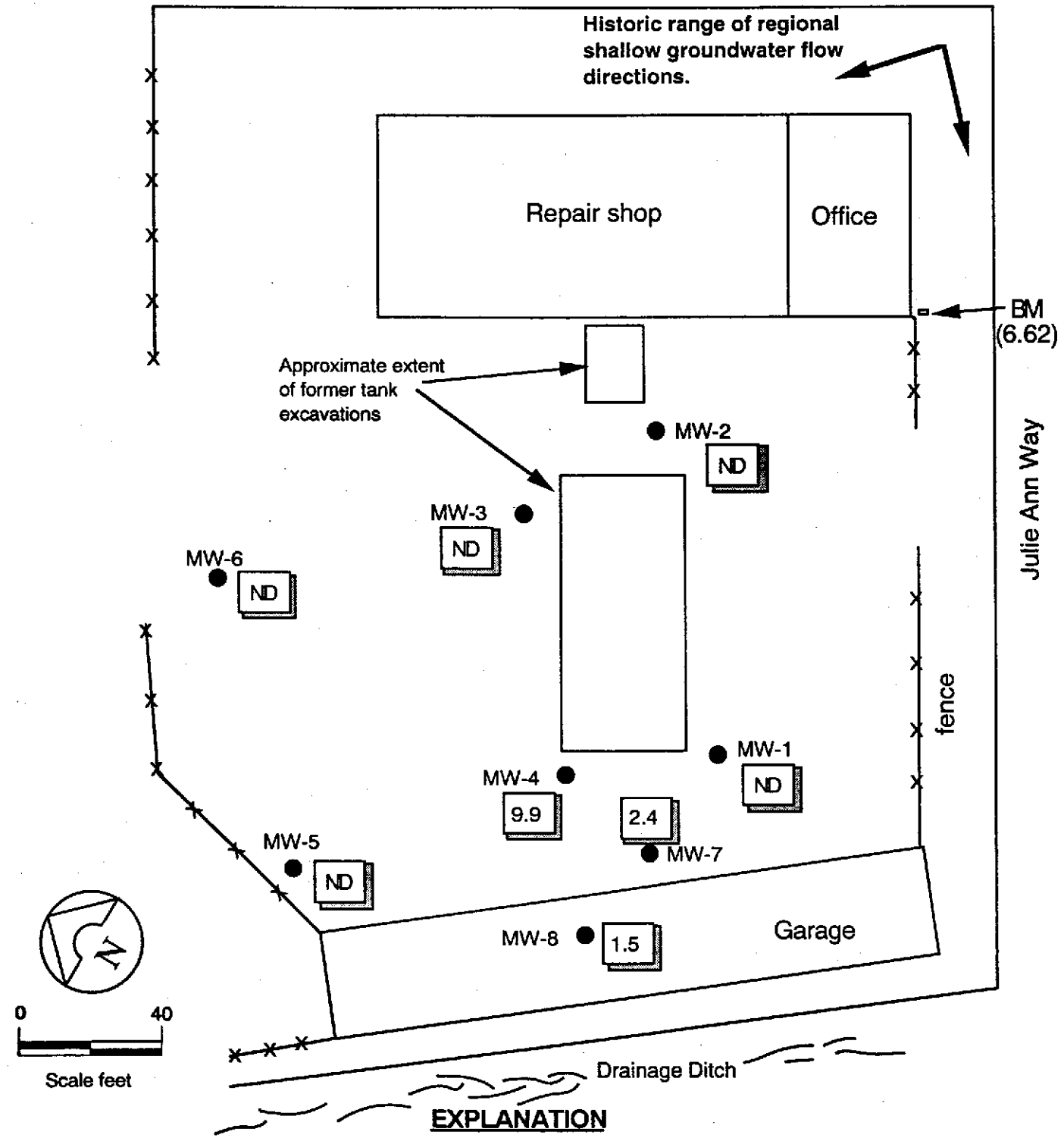


GERAGHTY & MILLER, INC.
Environmental Services

Project No. RC0019.005

SHALLOW GROUNDWATER CONTOURS
Former Penske Truck Leasing Co.
725 Julie Ann Way
Oakland, California

FIGURE
2



GERAGHTY & MILLER, INC.
Environmental Services

Project No. RC0019.005

BENZENE CONCENTRATIONS
Former Penske Truck Leasing Co.
725 Julie Ann Way
Oakland, California

FIGURE
3

ATTACHMENT 1

COPIES OF CERTIFIED ANALYTICAL REPORTS

AND CHAIN-OF-CUSTODY DOCUMENTATION

Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

GERAGHTY & MILLER
1050 MARINA WAY SOUTH
RICHMOND, CA 94804

Date: December 1, 1994

Attn: PAUL HEHN

Laboratory Number : 50074 Project Number/Name : RC0019.005

This report has been reviewed and

approved for release.

12/1/94

Senior Chemist
Account Manager

Certified Laboratories

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A member of ESSCON Environmental Support Service Consortium

GEAGHTY & MILLER
Attn: PAUL HEHN

Project RC0019.005
Reported on December 1, 1994

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Chronology

Laboratory Number 50074

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-5	11/22/94	11/23/94	11/28/94	11/28/94	AK281.18	01
MW-3	11/22/94	11/23/94	11/28/94	11/28/94	AK281.18	02
MW-2	11/22/94	11/23/94	11/28/94	11/28/94	AK281.18	03
MW-6	11/22/94	11/23/94	11/28/94	11/28/94	AK281.18	04
MW-4	11/23/94	11/23/94	12/01/94	12/01/94	AK281.18	05
MW-8	11/23/94	11/23/94	11/28/94	11/28/94	AK281.18	06
MW-7	11/23/94	11/23/94	11/29/94	11/29/94	AK281.18	07
MW-1	11/23/94	11/23/94	11/30/94	11/30/94	AK281.18	08
TB	11/22/94	11/23/94	11/30/94	11/30/94	AK281.18	09

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
AK281.18-01	Method Blank	MB		Water	11/28/94	11/28/94
AK281.18-02	MW-1	MS	50056-01	Water	11/28/94	11/28/94
AK281.18-03	MW-1	MSD	50056-01	Water	11/28/94	11/28/94
AK281.18-04	Laboratory Spike	LS		Water	11/28/94	11/28/94

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Moisture
50074-01	MW-5	Water	-
50074-02	MW-3	Water	-
50074-03	MW-2	Water	-
50074-04	MW-6	Water	-

R E S U L T S O F A N A L Y S I S

Compound	50074-01 Conc. ug/L	RL	50074-02 Conc. ug/L	RL	50074-03 Conc. ug/L	RL	50074-04 Conc. ug/L	RL
Gasoline_Range	ND	50	ND	50	ND	50	ND	50
Benzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Toluene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Total Xylenes	ND	0.5	ND	0.5	ND	0.5	1.5	0.5
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	113		112		116		105	

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Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Moisture
50074-05	MW-4	Water	-
50074-06	MW-8	Water	-
50074-07	MW-7	Water	-
50074-08	MW-1	Water	-

R E S U L T S O F A N A L Y S I S

Compound	50074-05 Conc. ug/L	RL	50074-06 Conc. ug/L	RL	50074-07 Conc. ug/L	RL	50074-08 Conc. ug/L	RL
Gasoline_Range	100	50	ND	50	ND	50	ND	50
Benzene	9.9	0.5	1.5	0.5	2.4	0.5	ND	0.5
Toluene	0.7	0.5	ND	0.5	ND	0.5	ND	0.5
Ethyl Benzene	1.6	0.5	ND	0.5	ND	0.5	ND	0.5
Total Xylenes	3.8	0.5	ND	0.5	ND	0.5	0.6	0.5
>> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	106		111		115		101	

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Reported on December 1, 1994

Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

LAB ID	Sample ID	Matrix	Moisture
50074-09	TB	Water	-

R E S U L T S O F A N A L Y S I S

Compound	50074-09 Conc. ug/L	RL
Gasoline Range	ND	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5
>> Surrogate Recoveries (%) <<		
Trifluorotoluene (SS)	138	

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 50074
Method Blank(s)

	AK281.18-01 Conc. ug/L	RL
Gasoline_Range	ND	50
Benzene	ND	0.5
Toluene	ND	0.5
Ethyl Benzene	ND	0.5
Total Xylenes	ND	0.5
>> Surrogate Recoveries (%) <<		
Trifluorotoluene (SS)	119	

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Gasoline Range Petroleum Hydrocarbons and BTXE
by EPA SW-846 5030/8015M/8020
Gasoline Range quantitated as all compounds from C6-C10

Quality Assurance and Control Data

Laboratory Number: 50074

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L) AK281.18 04 / - Laboratory Control Spikes						
Gasoline_Range		450	451	100	65-135	
Benzene		20	19.6	98	65-135	
Toluene		20	19.8	99	65-135	
Ethyl Benzene		20	18.2	91	65-135	
Total Xylenes		60	57.5	96	65-135	
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				113	50-150	
For Water Matrix (ug/L) AK281.18 02 / 03 - Sample Spiked: 50056 - 01						
Gasoline_Range	ND	450	436/433	97/96	65-135	1
Benzene	ND	20	18.5/19.1	93/96	65-135	3
Toluene	ND	20	18.8/19.6	94/98	65-135	4
Ethyl Benzene	ND	20	17.5/18.0	88/90	65-135	2
Total Xylenes	ND	60	54.9/57.2	92/95	65-135	3
>> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)				111/111	50-150	

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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GRAGHTY & MILLER
Attn: PAUL HEHN

Project RC0019.005
Reported on December 1, 1994

Total Petroleum Hydrocarbons as Diesel
by EPA SW-846 Method 8015M
Diesel Range quantitated as all compounds from C10-C25

Chronology

Laboratory Number 50074

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-5	11/22/94	11/23/94	11/29/94	11/29/94	AK282.29	01
MW-3	11/22/94	11/23/94	11/29/94	11/29/94	AK282.29	02
MW-2	11/22/94	11/23/94	11/29/94	11/29/94	AK282.29	03
MW-6	11/22/94	11/23/94	11/29/94	11/29/94	AK282.29	04
MW-4	11/23/94	11/23/94	11/29/94	11/29/94	AK282.29	05
MW-8	11/23/94	11/23/94	11/29/94	11/29/94	AK282.29	06
MW-7	11/23/94	11/23/94	11/29/94	11/29/94	AK282.29	07
MW-1	11/23/94	11/23/94	11/29/94	11/29/94	AK282.29	08

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
AK282.29-01	Method Blank	MB	Water	11/28/94	11/28/94
AK282.29-02	Laboratory Spike	LS	Water	11/28/94	11/28/94
AK282.29-03	Laboratory Spike Duplicate	LSD	Water	11/28/94	11/28/94

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GERAGHTY & MILLER
Attn: PAUL HEHN

Project RC0019.005
Reported on December 1, 1994

Total Petroleum Hydrocarbons as Diesel
by EPA SW-846 Method 8015M
Diesel Range quantitated as all compounds from C10-C25

LAB ID	Sample ID	Matrix	Moisture
50074-01	MW-5	Water	-
50074-02	MW-3	Water	-
50074-03	MW-2	Water	-
50074-04	MW-6	Water	-

R E S U L T S O F A N A L Y S I S

Compound	50074-01 Conc. ug/L	RL	50074-02 Conc. ug/L	RL	50074-03 Conc. ug/L	RL	50074-04 Conc. ug/L	RL
Diesel	160	50	ND	50	51**	50	ND	50

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Attn: PAUL HEHN

Project RC0019.005
Reported on December 1, 1994

Total Petroleum Hydrocarbons as Diesel
by EPA SW-846 Method 8015M
Diesel Range quantitated as all compounds from C10-C25

LAB ID	Sample ID	Matrix	Moisture
50074-05	MW-4	Water	-
50074-06	MW-8	Water	-
50074-07	MW-7	Water	-
50074-08	MW-1	Water	-

R E S U L T S O F A N A L Y S I S

Compound	50074-05 Conc. ug/L	RL	50074-06 Conc. ug/L	RL	50074-07 Conc. ug/L	RL	50074-08 Conc. ug/L	RL
Diesel	1800	50	570	50	150	50	1700	50

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Total Petroleum Hydrocarbons as Diesel
by EPA SW-846 Method 8015M
Diesel Range quantitated as all compounds from C10-C25

Quality Assurance and Control Data

Laboratory Number: 50074
Method Blank(s)

	AK282.29-01	
	Conc.	RL
Diesel	ND	50
>> Surrogate Recoveries (%) <<		
Tetracosane	ND	

Certified Laboratories

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Total Petroleum Hydrocarbons as Diesel
by EPA SW-846 Method 8015M
Diesel Range quantitated as all compounds from C10-C25

Quality Assurance and Control Data

Laboratory Number: 50074

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L) AK282.29 02 / 03 - Laboratory Control Spikes						
Diesel		5000	4643/4717	93/94	50-150	1

- Hydrocarbons were found in the range of diesel, but do not resemble a diesel fingerprint - single peak in diesel range.

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)

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CERTIFICATE OF ANALYSIS

Laboratory No.: 50074
Client: GERAGHTY & MILLER
Client Job No.: RC0019.005

Date Received: November 23, 1994
Date Reported: November 30, 1994

Total Dissolved Solids by Method 160.1

#	Sample ID	Date Sampled	Date Analyzed	Analyte	Conc.	RL	Unit
01	MW-5	11/22/94	11/29/94	Total Dissolved Solids	2600	10	mg/L
02	MW-3	11/22/94	11/29/94	Total Dissolved Solids	3400	10	mg/L
03	MW-2	11/22/94	11/29/94	Total Dissolved Solids	2400	10	mg/L
04	MW-6	11/22/94	11/29/94	Total Dissolved Solids	1800	10	mg/L
05	MW-4	11/23/94	11/29/94	Total Dissolved Solids	5600	10	mg/L
06	MW-8	11/23/94	11/29/94	Total Dissolved Solids	6300	10	mg/L
07	MW-7	11/23/94	11/29/94	Total Dissolved Solids	3600	10	mg/L
08	MW-1	11/23/94	11/29/94	Total Dissolved Solids	3600	10	mg/L
QC	Method Blank	Water	11/29/94	Total Dissolved Solids	ND	10	mg/L

mg/L - parts per million (ppm)
ND = Not Detected
NA = Not Applicable
RL = Reporting Limit

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GERAGHTY & MILLER, INC.
Environmental Services

Laboratory Task Order No. 56074

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number RC0019.005

Project Location Penske Oakland

Laboratory Superior Analytical

Sampler(s)/Affiliation Geraghty & Miller
G. Crowley

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	TPH-Gas (5 EPA 8015 modified)	BTXE (EPA Method 8020)	TPH-Diesel (EPA 8015 modified)	Total Dissolved Solids						TOTAL
MW-5	L	11/22 1:15		X	X	X	X						5
MW-3	L	11/22 12:45		X	X	X	X						5
MW-2	L	11/22 12:55		X	X	X	X						5
MW-6	L	11/22 1:05		X	X	X	X						5
MW-4	L	11/23 11:00		X	X	X	X						4
MW-8	L	11/23 9:15		X	X	X	X						5
MW-7	L	11/23 9:45		X	X	X	X						5
MW-1	L	11/23 10:15		X	X	X	X						5
TB	L			X	X								2

Please initial: [illegible]
[illegible] stored in ice [illegible] 4°C
[illegible] containers [illegible]
[illegible] yes
[illegible] without headspace yes
[illegible]

Sample Code: L = Liquid; S = Solid; A = Air

Total No. of Bottles/ Containers 41

				Seal Intact?
Relinquished by:	Organization: Geraghty & Miller	Date 11/23/94	Time 1:25	Yes No N/A
Received by:	Organization: AERO	Date 11/23/94	Time 1:25	
Relinquished by:	Organization: AERO	Date 11/23/94	Time 2:40	Seal Intact?
Received by:	Organization: SPL SF	Date 11/23/94	Time 2:40	Yes No N/A

Special Instructions/Remarks: Please send data to Paul V. Hedin at Geraghty & Miller
phone (510) 233-3200 FAX (510) 233-3204

Delivery Method: ☐ In Person ☐ Common Carrier SPECIFY ☐ Lab Courier ☐ Other SPECIFY