

**RESULTS OF QUARTERLY
GROUNDWATER MONITORING
MAY 1995
FORMER PENSKE TRUCK
LEASING CO. FACILITY
725 JULIE ANN WAY
OAKLAND, CALIFORNIA**

June 1995

Prepared by

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

ENVIRONMENTAL
PROTECTION
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95 JUN 10 PM 2:10

July 6, 1995
Project No. RC0019.009

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

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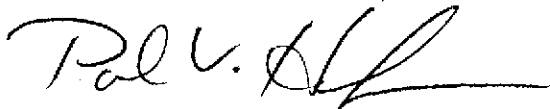
SUBJECT: Results of Quarterly Groundwater Monitoring, May 1995
Former Penske Truck Leasing Facility
725 Julie Ann Way, Oakland, California.

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 May 1995 at the former Penske Truck Leasing Facility at 725 Julie Ann Way, Oakland. Please note that groundwater sampling at this former facility is being completed by Penske's sampling subcontractor, Handex of Colorado, while the quarterly groundwater sampling reports continue to be prepared by Geraghty & Miller, Inc. 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, May 1995

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

55 JUL 10 PM 2 13
MAIL ROOM
ENVIRONMENTAL





Via Facsimile (510) 233-3204

July 6, 1995

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

Re: Quarterly Monitoring Report
Penske Truck Leasing Facility No. 0687-10
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 or need assistance, please call my office at (610) 775-6010.

Sincerely,

A handwritten signature in cursive script that reads "Richard G. Saut".

Richard G. Saut
Environmental Project Manager

RGS:jls
cc: M. Althen
12070695.rgs

June 15, 1995
Project No. RC0019.009

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

SUBJECT: Results of Quarterly Groundwater Monitoring, May 1995
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 May 23, 1995, 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 January 25, 1995. The scope of work includes the coordination of sampling activities for this former facility with Handex of Colorado (Handex), Penske's sampling subcontractor. The scope of work also includes the preparation of quarterly groundwater sampling and monitoring reports based on the data and groundwater samples collected by Handex. This quarterly groundwater sampling and monitoring program is related to the non-attainment zone (NAZ) 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 May 23, 1995, by a representative of Handex. In accordance with the NAZ approach monitoring and sampling plan, monitoring was completed and groundwater samples were collected from Monitor Wells MW-1 through MW-5, and MW-7. 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 volumes of water using a 1-inch diaphragm pump unless the well went dry during purging. 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 Martinez, 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 4.90 feet (Monitor Well MW-5) to 6.36 feet (Monitor Well MW-3) below the ground surface. A contour map based on the groundwater elevation data collected February 21, 1995, 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 February 21, 1995.



The difference in the elevation of the groundwater surface between Wells MW-2 and MW-4 is 0.18 feet, producing a hydraulic gradient (slope of the groundwater surface) of approximately 0.0019 foot/foot in a westerly 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 samples. TPH as diesel was detected in the groundwater samples collected from Monitor Wells MW-1 (300 micrograms per liter [$\mu\text{g/L}$]), MW-4 (270 $\mu\text{g/L}$), and MW-7 (360 $\mu\text{g/L}$). Benzene was detected only in the groundwater samples collected from Monitor Wells MW-4 (5.3 $\mu\text{g/L}$). All other BTEX constituent results are presented in Table 2. TPH as gasoline and BTEX were not detected in the trip blank. Analysis of total dissolved solids in the groundwater samples detected concentrations ranging from 3,800 milligrams per liter (mg/L) from Monitor Well MW-1 to 8,300 mg/L from Monitor Well MW-4 (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). High concentrations of total dissolved solids were detected in the groundwater laboratory samples (Table 2).

COMPLIANCE WITH NON-ATTAINMENT ZONE APPROACH

Concentrations of benzene were not detected in any of the shallow groundwater samples collected from the designated NAZ guard wells (MW-3, MW-5, and MW-7) for the May 1995 quarterly sampling event. Two other wells were below the detection limit, and Monitor Well MW-4 contained 5.3 $\mu\text{g/L}$ benzene. All shallow groundwater sample results continue to be far below the compliance level for benzene (21 $\mu\text{g/L}$). This compliance level for benzene was agreed to by both the ACHCSA and the RWQCB as part of the NAZ approach for this former Penske facility. The compliance levels have been met, even though abnormally high groundwater elevations continue to be recorded for the site, probably due to heavy winter and spring rainfall and runoff experienced in the San Francisco Bay area during early 1995.




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.

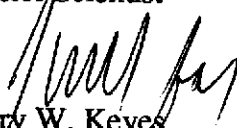
Sincerely,
GERAGHTY & MILLER, INC.



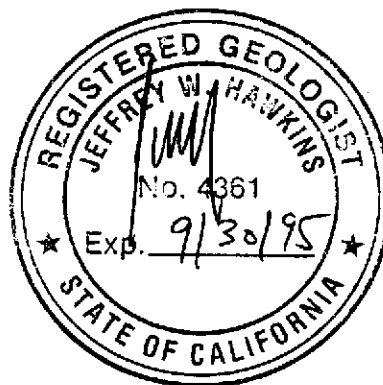
Paul V. Hehn
Project Geologist/Project Manager



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 Field Data Sheets from Handex of Colorado, Inc.
Attachment 2	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.
- . January 25, 1995. Work Plan and Budget Cost Estimate for Groundwater Sampling Coordination, Quarterly Report Preparation, and Purge Water Disposal Assistance, 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 Top of Casing Top of Water Measured Depth				Calculated Purge Volume (b) (gallons)	Actual Purge Volume (gallons)	Field Measurements			Casing Diameter (inches)
		Water (a) (feet)	Elevation (feet)	Elevation (feet)	of Well (a) (feet)			pH	Temp. (°F)	SC (µS/cm)	
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	
	21-Feb-95	6.20	6.20	0.00	30.00	47.12	48	6.97	64	1,050	
	23-May-95	6.10	6.20	0.10	30.00	46.6	48	7.18	70.3	7,710	



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 Top of Casing Top of Water Measured Depth				Calculated Purge Volume (b) (gallons)	Actual Purge Volume (gallons)	Field Measurements			Casing Diameter (inches)
		Water (a) (feet)	Elevation (feet)	Elevation (feet)	of Well (a) (feet)			pH	Temp. (°F)	SC (µS/cm)	
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	
	21-Feb-95	6.36	6.10	-0.26	33.50	53.74	54	6.99	85.4	880	
23-May-95	6.48	6.10	-0.38	33.50	52.69	54	7.25	68.7	6,060		
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	
	21-Feb-95	5.36	5.18	-0.18	33.50	55.71	48 (d)	6.83	80.2	880	
	23-May-95	5.05	5.18	0.13	33.50	55.48	59	6.71	66.5	12,090	



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 Top of Casing Top of Water Measured Depth				Calculated Purge Volume (b) (gallons)	Actual Purge Volume (gallons)	Field Measurements			Casing Diameter (inches)
		Water (a) (feet)	Elevation (feet)	Elevation (feet)	of Well (a) (feet)			pH	Temp. (°F)	SC (µS/cm)	
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	
	21-Feb-95	4.90	4.71	-0.19	31.00	51.68	45 (d)	7.30	82.5	880	
	23-May-95	4.86	4.71	-0.15	31.00	50.97	52	7.03	66.5	4,320	
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	
	21-Feb-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	23-May-95	5.32	5.37	0.05	24.70	NS	NS	NS	NS	NS	
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	
	21-Feb-95	5.25	5.38	0.13	28.30	45.64	46	7.46	69.5	910	
	23-May-95	5.10	5.38	0.28	28.30	45.24	46	7.21	65.0	5,740	
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	
	21-Feb-95	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	23-May-95	5.53	5.44	-0.09	25.40	NS	NS	NS	NS	NS	



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	Top of Casing	Top of Water	Measured Depth	Calculated	Actual Purge	Field Measurements		Casing
		Water (a)	Elevation	Elevation	of Well (a)	Purge Volume (b)	Volume	pH	Temp. (°F)	SC (µS/cm)

- (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
 NS Well not sampled or monitored during this quarterly event.

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	TPH	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl- benzene (b) (µg/L)	Xylenes (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
		Gasoline (a) (µg/L)	Diesel (a) (µg/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
	21-Feb-95	ND(<50)	4,200	ND(<0.5)	ND(<0.5)	0.8	0.6	4,200
	23-May-95	ND(<50)	300	ND(<0.5)	ND(<0.5)	2.1	2.0	3,800



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	TPH	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl- benzene (b) (µg/L)	Xylenes (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
		Gasoline (a) (µg/L)	Diesel (a) (µg/L)					
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
	21-Feb-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	5,700
	23-May-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	5,100



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	TPH	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl- benzene (b) (µg/L)	Xylenes (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
		Gasoline (a) (µg/L)	Diesel (a) (µg/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
	21-Feb-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	4,200
	23-May-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	4,100



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	TPH	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl- benzene (b) (µg/L)	Xylenes (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
		Gasoline (a) (µg/L)	Diesel (a) (µg/L)					
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
	21-Feb-95	91	680	23	ND(<0.5)	1.0	ND(<0.5)	7,100
	23-May-95	ND(<50)	270	5.3	ND(<0.5)	ND(<0.5)	ND(<0.5)	8,300
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
	21-Feb-95	ND(<50)	170	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,800
23-May-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	4,100	
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
	21-Feb-95	NS	NS	NS	NS	NS	NS	NS
	23-May-95	NS	NS	NS	NS	NS	NS	NS



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	TPH	Benzene (b)	Toluene (b)	Ethyl- benzene (b)	Xylenes (b)	Total Dissolved Solids (c)
		Gasoline (a)	Diesel (a)					
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)
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
	21-Feb-95	93	1,400	0.6	0.8	0.8	3.3	4,000
	23-May-95	ND(<50)	360	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,400
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
	21-Feb-95	NS	NS	NS	NS	NS	NS	NS
	23-May-95	NS	NS	NS	NS	NS	NS	NS
Trip Blank	23-May-95	ND(<50)	--	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	--

(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.

(Remarks continued on page 6.)



Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling

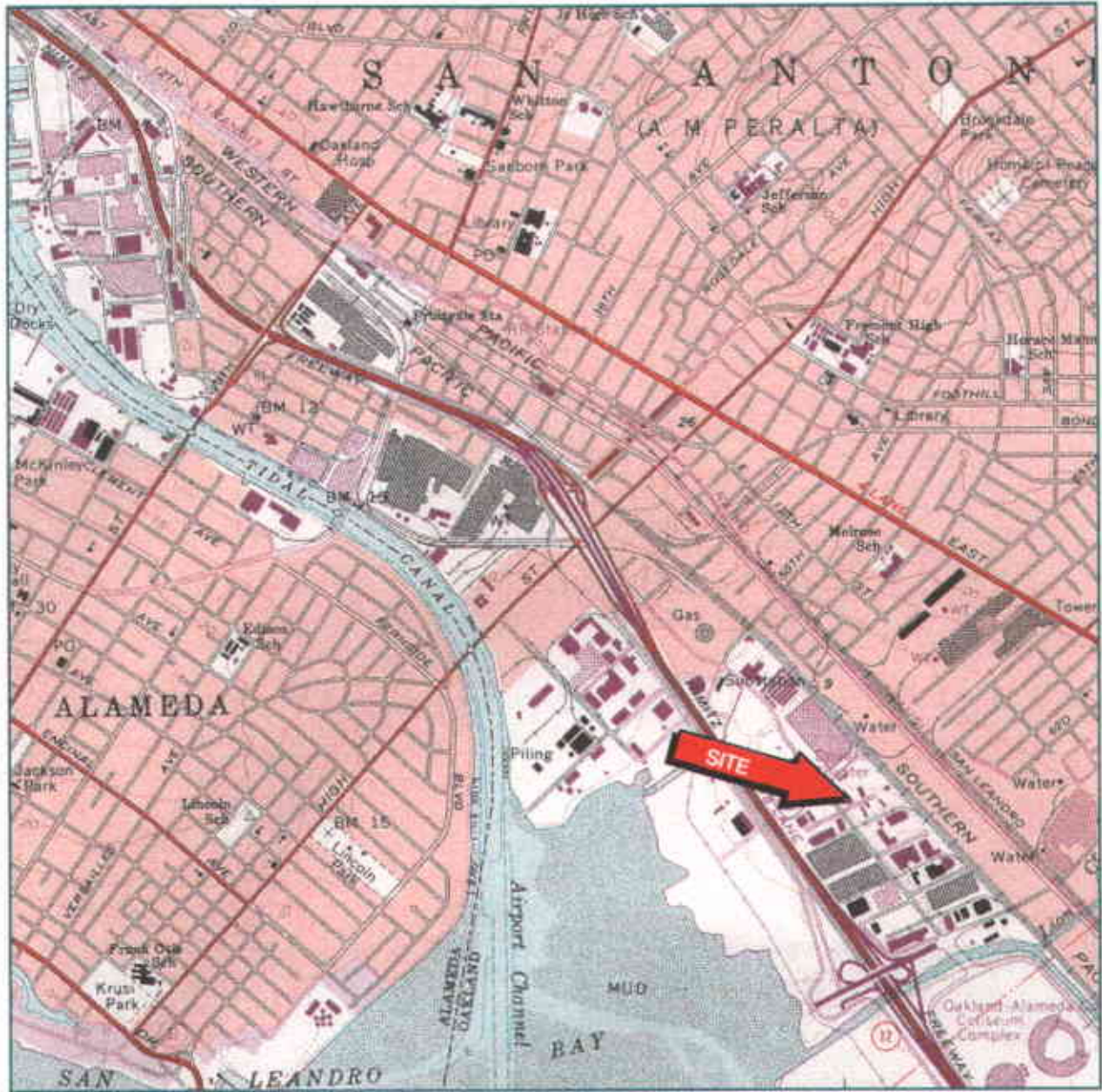
Former Penske Truck Leasing Facility,
725 Julie Ann Way, Oakland, California.

Well	Date	TPH	TPH	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethyl- benzene (b) (µg/L)	Xylenes (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
		Gasoline (a) (µg/L)	Diesel (a) (µg/L)					

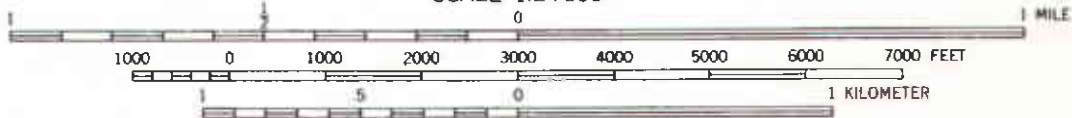
- () Reported detection limit
- Not analyzed
- ND Not detected
- µg/L Micrograms per liter
- mg/L Milligrams per liter
- NS Well not sampled or monitored during this quarterly event.

Analysis by Superior Precision Analytical, Inc., Martinez, California.

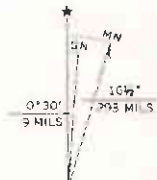




SCALE 1:24 000



CONTOUR INTERVAL 20 FEET



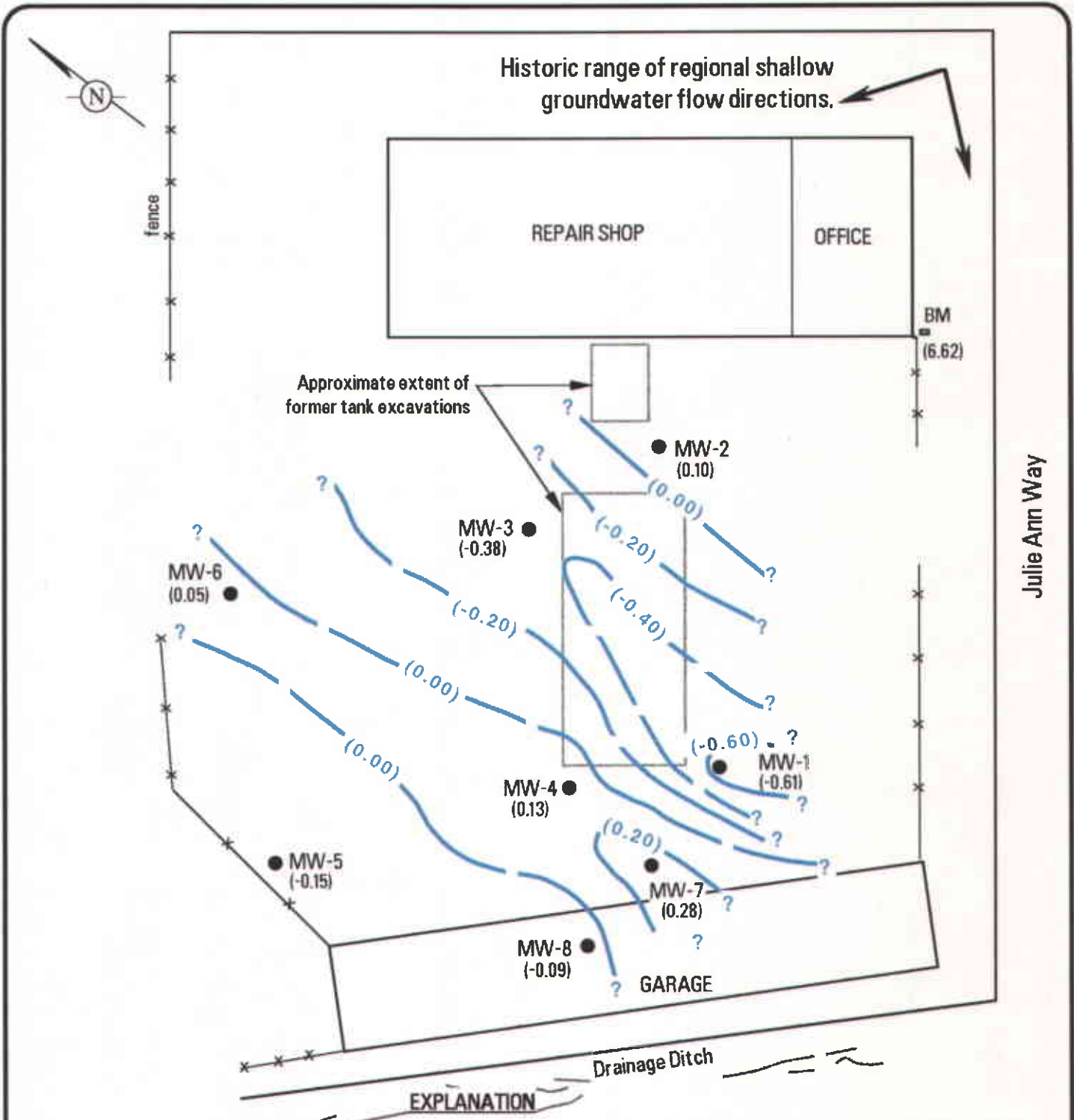
UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

Reference: U.S.G.S. 7-minute Quadrangle, Oakland East, California, revised, Photorevised 1980.

GERAGHTY & MILLER, INC.
Environmental Services
 A Heidemij Company
 Project No. RC0019.000

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

FIGURE
1



Julie Ann Way

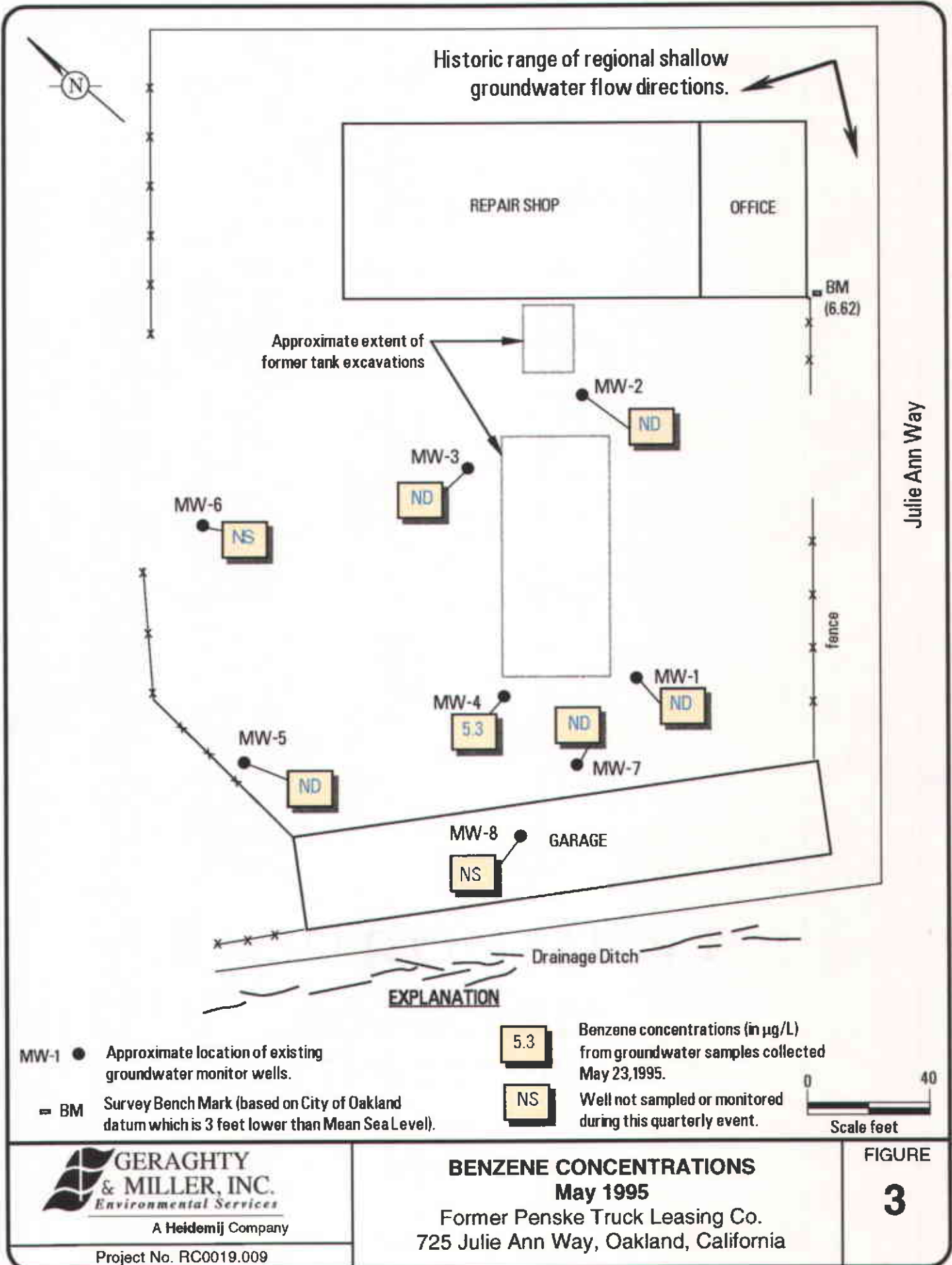
- EXPLANATION**
- MW-1 ● Approximate location of existing groundwater monitor wells.
 - BM Survey Bench Mark (based on City of Oakland datum which is 3 feet lower than Mean Sea Level).
 - (-0.61) Groundwater elevation (feet) relative to benchmark, measured May 23, 1995.
 - (-0.40) Groundwater elevation contour (feet); dashed where inferred (contour interval equals 0.2 feet).
 - (NM) Well not sampled or monitored during this quarterly event.



Project No. RC0019.009

SHALLOW GROUNDWATER CONTOURS
May 1995
 Former Penske Truck Leasing Co.
 725 Julie Ann Way, Oakland, California

FIGURE
2



ATTACHMENT 1

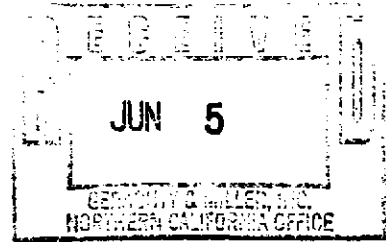
**COPIES OF FIELD DATA SHEETS FROM
HANDEX OF COLORADO, INC.**



HANDEX OF COLORADO, INC., 411 Corporate Circle, Golden, CO 80401 • (303) 271-1050 • FAX (303) 271-0446

TRANSMITTAL LETTER

To: Paul V. Hehn, R.E.A.
Project Scientist/Geologist
Geraghty & Miller, Inc.
1050 Marina Way South
Richmond, California 94804



From: Craig Hofmeister, P.E. *CH*

Date: May 25, 1995

RE: Quarterly Groundwater Monitoring Field Notes
Former Penske Truck Leasing Facility
725 Julie Ann Way
Oakland, California

For Your Information and Files Per Your Request As Discussed
Please Call Me With Your Comments

COMMENTS:

Attached for your review are Handex's field notes for monitoring conducted on May 23, 1995 at Penske Truck Leasing Company's former truck leasing facility located at 725 Julie Ann Way in Oakland, California.

If you have any questions or need additional information, please call.

SHARE\PENSKHEHN.TRS

CHAIN OF CUSTODY RECORD

HANDEX OF COLORADO

411 Corporate Circle
Golden, Colorado 80401
Office (303) 271-1050
Fax # (303) 271-0448

PROJECT NO.:	109154.01	Sampled by: D.J. RUDER
CLIENT:	PENSKE TRUCK LEASING CO.	
SITE NAME:	PENSKE; OAKLAND, CA.	
SITE LOCATION:	725 JULIE ANN WAY	

REQUESTED TURN AROUND:
 24 HOURS 2-7 DAYS 8-13 DAYS NORMAL (14 DAYS)

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	SAMPLE TYPE	PRESERVATION METHOD	SAMPLE CONTAINER DESCRIPTION	No. of CONT.	ANALYSES REQUESTED
MW-1	5/23/95	16:55	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD
MW-1	5/23/95	16:55	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-1	5/22/95	16:55	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
MW-2	5/23/95	14:55	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD
MW-2	5/23/95	14:55	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-2	5/23/95	14:55	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
MW-3	5/23/95	15:25	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD
MW-3	5/23/95	15:25	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-3	5/23/95	15:25	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
MW-4	5/23/95	16:25	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD
MW-4	5/23/95	16:25	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-4	5/23/95	16:25	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
MW-6	5/23/95	15:55	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD

REMARKS:

RELINQUISHED BY: (Signature) 	DATE 5/24/95 TIME 9:00	COMPANY HANDEX	RECEIVED BY: (Signature)	DATE 5/24/95 TIME 9:00	COMPANY FRONT DESK HAMPTON INN
RELINQUISHED BY: (Signature)	DATE TIME	COMPANY	RECEIVED BY: (Signature)	DATE TIME	COMPANY COURIER SERVICE
RELINQUISHED BY: (Signature)	DATE TIME	COMPANY	RECEIVED BY: (Signature)	DATE TIME	COMPANY

CHAIN OF CUSTODY RECORD

HANDEX OF COLORADO

411 Corporate Circle
 Golden, Colorado 80401
 Office (303) 271-1050
 Fax # (303) 271-0446

PROJECT NO.:	109154.01	Sampled by: D.J. RUDER
CLIENT:	PENSKE TRUCK LEASING CO.	
SITE NAME:	PENSKE; OAKLAND, CA.	
SITE LOCATION:	725 JULIE ANN WAY	

SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	SAMPLE TYPE	PRESERVATION METHOD	SAMPLE CONTAINER DESCRIPTION	No. of CONT.	REQUESTED TURN AROUND:
							24 HOURS 2-7 DAYS 8-13 DAYS X NORMAL (14 DAYS)
							ANALYSES REQUESTED
MW-5	5/23/95	15:55	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-5	5/23/95	15:55	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
MW-7	5/23/95	17:25	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD
MW-7	5/23/95	17:25	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-7	5/23/95	17:25	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
TRIP BLANK	—	—	WATER	ICE	40ml VOA VIAL	1	BTEX 8020, TPH 8015 MOD

REMARKS:

RELINQUISHED BY: (Signature) <i>D.J. Ruder</i>	DATE 5/24/95	COMPANY HANDEX		RECEIVED BY: (Signature)	DATE 5/24/95	COMPANY	FRONT DESK HAMPTON INN
RELINQUISHED BY: (Signature)	DATE TIME	COMPANY		RECEIVED BY: (Signature)	DATE TIME	COMPANY	COURIER SERVICE
RELINQUISHED BY: (Signature)	DATE TIME	COMPANY		RECEIVED BY: (Signature)	DATE TIME	COMPANY	

ATTACHMENT 2

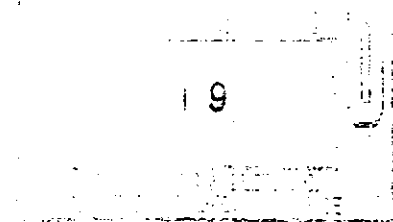
**COPIES OF CERTIFIED ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY DOCUMENTATION**



HANDEX OF COLORADO, INC., 411 Corporate Circle, Golden, CO 80401 • (303) 271-1050 • FAX (303) 271-0446

TRANSMITTAL LETTER

To: Paul V. Hehn, R.E.A.
Project Scientist/Geologist
Geraghty & Miller, Inc.
1050 Marina Way South
Richmond, California 94804



From: Craig Hofmeister, P.E.

Date: June 16, 1995

RE: Quarterly Groundwater Monitoring Laboratory Results
Former Penske Truck Leasing Facility
725 Julie Ann Way
Oakland, California

For Your Information and Files Per Your Request As Discussed
Please Call Me With Your Comments

COMMENTS:

Attached are the original laboratory results for monitoring conducted on May 23, 1995 at Penske Truck Leasing Company's former truck leasing facility located at 725 Julie Ann Way in Oakland, California.

If you have any questions or need additional information, please call.

SHARE\PENSKHEHN.TRS



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

HANDEX OF COLORADO
411 Corporate Circle
Golden, CO 80401

Date: June 12, 1995

Attn: Craig Hofmeister

Laboratory Number : 81690

Project Number/Name : 109154.01

This report has been reviewed and
approved for release.

CAHOM for
Senior Chemist
Account Manager

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553
(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124
(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108
(206) 763-2992 / fax (206) 763-8429



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

INDEX OF COLORADO
Attn: Craig Hofmeister

Project 109154.01
Reported on June 6, 1995

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 81690

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-1	05/23/95	05/24/95	06/02/95	06/02/95	BF021.04	01
MW-2	05/23/95	05/24/95	06/02/95	06/02/95	BF021.04	02
MW-3	05/23/95	05/24/95	06/02/95	06/02/95	BF021.04	03
MW-4	05/23/95	05/24/95	06/02/95	06/02/95	BF021.04	04
MW-5	05/23/95	05/24/95	06/02/95	06/02/95	BF021.04	05
MW-7	05/23/95	05/24/95	06/02/95	06/02/95	BF021.04	06
TB-LB	05/23/95	05/24/95	06/02/95	06/02/95	BF021.04	07

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BF021.04-01	Method Blank	MB	Water	06/02/95	06/02/95
BF021.04-03	MW-1	MS 81670-02	Water	06/02/95	06/02/95
BF021.04-04	MW-1	MSD 81670-02	Water	06/02/95	06/02/95



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

HAND EX OF COLORADO
Attn: Craig Hofmeister

Project 109154.01
Reported on June 6, 1995

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	Dil. Factor	Moisture
81690-01	MW-1	Water	1.0	-
81690-02	MW-2	Water	1.0	-
81690-03	MW-3	Water	1.0	-
81690-04	MW-4	Water	1.0	-

RESULTS OF ANALYSIS

Compound	81690-01		81690-02		81690-03		81690-04	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L		ug/L	
Gasoline_Range	ND	50	ND	50	ND	50	ND	50
Benzene	ND	0.5	ND	0.5	ND	0.5	5.3	0.5
Toluene	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Ethyl Benzene	2.1	0.5	ND	0.5	ND	0.5	ND	0.5
Total Xylenes	2.0	0.5	ND	0.5	ND	0.5	ND	0.5
> Surrogate Recoveries (%) <<								
Trifluorotoluene (SS)	100		96		100		101	



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

INDEX OF COLORADO
Attn: Craig Hofmeister

Project 109154.01
Reported on June 6, 1995

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	Dil. Factor	Moisture
81690-05	MW-5	Water	1.0	-
81690-06	MW-7	Water	1.0	-
81690-07	TB-LB	Water	1.0	-

RESULTS OF ANALYSIS

Compound	81690-05		81690-06		81690-07	
	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L	
Gasoline_Range	ND	50	ND	50	ND	50
Benzene	ND	0.5	ND	0.5	ND	0.5
toluene	ND	0.5	ND	0.5	ND	0.5
Ethyl Benzene	ND	0.5	ND	0.5	ND	0.5
Total Xylenes	ND	0.5	ND	0.5	ND	0.5
> Surrogate Recoveries (%) <<						
Trifluorotoluene (SS)	103		100		104	



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

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: 81690
Method Blank(s)

BF021.04-01
Conc. RL
ug/L

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) 104



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

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: 81690

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
----------	--------------	-----------	------------	------------	----------	-------

For Water Matrix (ug/L)

BF021.04 03 / 04 - Sample Spiked: 81670 - 02

Gasoline_Range	ND	320	350/330	109/103	65-135	6
Benzene	ND	20	21/21	105/105	65-135	0
Toluene	ND	20	21/21	105/105	65-135	0
Ethyl Benzene	ND	20	21/21	105/105	65-135	0
Total Xylenes	ND	60	61/62	102/103	65-135	1

> Surrogate Recoveries (%) <<

Trifluorotoluene (SS)				101/105	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)

Certified Laboratories

825 Arnold Dr., Suite 114
Martinez, California 94553

(510) 229-1512 / fax (510) 229-1526

1555 Burke St., Unit I
San Francisco, California 94124

(415) 647-2081 / fax (415) 821-7123

309 S. Cloverdale St., Suite B-24
Seattle, Washington 98108

(206) 763-2992 / fax (206) 763-8429



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

STATE OF COLORADO
Attn: Craig Hofmeister

Project 109154.01
Reported on June 1, 1995

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

Chronology

Laboratory Number 81690

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
MW-1	05/23/95	05/24/95	05/30/95	05/31/95	BE301.02	01
MW-2	05/23/95	05/24/95	05/30/95	05/31/95	BE301.02	02
MW-3	05/23/95	05/24/95	05/30/95	05/31/95	BE301.02	03
MW-4	05/23/95	05/24/95	05/30/95	05/31/95	BE301.02	04
MW-5	05/23/95	05/24/95	05/30/95	05/31/95	BE301.02	05
MW-7	05/23/95	05/24/95	05/30/95	05/31/95	BE301.02	06

QC Samples

QC Batch #	QC Sample ID	TypeRef.	Matrix	Extract.	Analyzed
BE301.02-01	Method Blank	MB	Water	05/30/95	05/31/95
BE301.02-02	Laboratory Spike	LS	Water	05/30/95	05/31/95
BE301.02-03	Laboratory Spike Duplicate	LSD	Water	05/30/95	05/31/95



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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	Dil. Factor	Moisture
81690-01	MW-1	Water	1.0	-
81690-02	MW-2	Water	1.0	-
81690-03	MW-3	Water	1.0	-
81690-04	MW-4	Water	1.0	-

RESULTS OF ANALYSIS

Compound	81690-01		81690-02		81690-03		81690-04	
	Conc.	RL	Conc.	RL	Conc.	RL	Conc.	RL
	ug/L		ug/L		ug/L		ug/L	
Diesel:	300	50	ND	50	ND	50	270	50

>> Surrogate Recoveries (%) <<

tetracosane	57	66	55	62
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Attn: Craig Hofmeister

Project 109154.01
Reported on June 1, 1995

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	Dil. Factor	Moisture
81690-05	MW-5	Water	1.0	-
81690-06	MW-7	Water	1.0	-

RESULTS OF ANALYSIS

Compound	81690-05		81690-06	
	Conc.	RL	Conc.	RL
	ug/L		ug/L	
Diesel:	ND	50	360	50
Surrogate Recoveries (%) <<				
tetracosane	63		99	



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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: 81690
Method Blank(s)

BE301.02-01
Conc. RL
ug/L

Diesel: ND 50

> Surrogate Recoveries (%) <<
Tetracosane 121



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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: 81690

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Water Matrix (ug/L) BE301.02 02 / 03 - Laboratory Control Spikes						
Diesel:		100	70/80	70/80	50-150	13
> Surrogate Recoveries (%) <<						
Tetracosane				64/75	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)

Certified Laboratories



Superior Precision Analytical, Inc.

A member of ESSCON Environmental Support Service Consortium

CERTIFICATE OF ANALYSIS

Laboratory No.: 81690
Client: HANDEX OF COLORADO
Client Job No.: 109154.01

Date Received: May 24, 1995
Date Reported: June 6, 1995

Total Dissolved Solids by Method 160.1

Sample ID	Date Sampled	Date Analyzed	Analyte	Conc.	RL	Unit
01 MW-1	05/23/95	05/30/95	TDS	3800	10	mg/L
02 MW-2	05/23/95	05/30/95	TDS	5100	10	mg/L
03 MW-3	05/23/95	05/30/95	TDS	4100	10	mg/L
04 MW-4	05/23/95	05/30/95	TDS	8300	10	mg/L
05 MW-5	05/23/95	05/30/95	TDS	4100	10	mg/L
06 MW-7	05/23/95	05/30/95	TDS	3400	10	mg/L
07 Method Blank	Water	05/30/95	TDS	ND	10	mg/L
08 DUP - MW-3	Water	05/30/95	TDS	7800/8100	RPD= 4	(<25)

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

Senior Chemist
Account Manager

81670

CHAIN OF CUSTODY RECORD

HANDEX OF COLORADO

411 Corporate Circle
 Golden, Colorado 80401
 Office (303) 271-1050
 Fax # (303) 271-0446

PROJECT NO.:		109154.01		Sampled by: D.J. RUDER REQUESTED TURN AROUND: 24 HOURS 2-7 DAYS 8-13 DAYS <input checked="" type="checkbox"/> NORMAL (14 DAYS)			
CLIENT:		PENSKE TRUCK LEASING CO.					
SITE NAME:		PENSKE; OAKLAND, CA.					
SITE LOCATION:		725 JULIE ANN WAY					
SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	SAMPLE TYPE	PRESERVATION METHOD	SAMPLE CONTAINER DESCRIPTION	No. of CONT.	ANALYSES REQUESTED
MW-1	5/23/95	16:55	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD
MW-1	5/23/95	16:55	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-1	5/23/95	16:55	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
MW-2	5/23/95	14:55	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD
MW-2	5/23/95	14:55	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-2	5/23/95	14:55	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
MW-3	5/23/95	15:25	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD
MW-3	5/23/95	15:25	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-3	5/23/95	15:25	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
MW-4	5/23/95	16:25	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD
MW-4	5/23/95	16:25	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-4	5/23/95	16:25	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
MW-5	5/23/95	15:55	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD

REMARKS:

RELINQUISHED BY: (Signature) <i>D.J. Ruder</i>	DATE 5/24/95	TIME 9:00	COMPANY HANDEX <i>see 3. 802</i>	RECEIVED BY: (Signature) <i>[Signature]</i>	DATE 5/24/95	TIME 9:00	COMPANY FRONT DESK HAMPTON INN.
RELINQUISHED BY: (Signature)	DATE	TIME	COMPANY	RECEIVED BY: (Signature)	DATE 5/24/95	TIME	COMPANY COURIER SERVICE
RELINQUISHED BY: (Signature)	DATE	TIME	COMPANY	RECEIVED BY: (Signature) <i>[Signature]</i>	DATE 5/24/95	TIME 2:30 pm	COMPANY <i>[Signature]</i>

CHAIN OF CUSTODY RECORD

HANDEX OF COLORADO

411 Corporate Circle
Golden, Colorado 80401
Office (303) 271-1050
Fax # (303) 271-0448

PROJECT NO.: 109154.01		Sampled by: D.J. RUDER REQUESTED TURN AROUND: 24 HOURS 2-7 DAYS 8-13 DAYS <u>NORMAL (14 DAYS)</u>					
CLIENT: PENSKE TRUCK LEASING CO.							
SITE NAME: PENSKE, OAKLAND, CA.							
SITE LOCATION: 725 JULIE ANN WAY							
SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	SAMPLE TYPE	PRESERVATION METHOD	SAMPLE CONTAINER DESCRIPTION	No. of CONT.	ANALYSES REQUESTED
MW-5	5/23/95	15:55	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-5	5/23/95	15:55	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
MW-7	5/23/95	17:25	WATER	HCL	40ml VOA VIAL	3	BTEX 8020, TPH 8015 MOD
MW-7	5/23/95	17:25	WATER	ICE	1L AMBER	1	TPH as diesel 8015 MOD
MW-7	5/23/95	17:25	WATER	ICE	1L AMBER	1	TOTAL DISSOLVED SOLIDS 160.1
TRIP BLANK	—	—	WATER	ICE	40ml VOA VIAL	1	BTEX 8020, TPH 8015 MOD

REMARKS:

RELINQUISHED BY: (Signature) <i>D.J. Ruder</i>	DATE 5/24/95 TIME 9:00	COMPANY HANDEX		RECEIVED BY: (Signature) _____	DATE 5/24/95 TIME 9:00	COMPANY FRONT DESK HAMPTON INN
RELINQUISHED BY: (Signature) _____	DATE _____ TIME _____	COMPANY _____		RECEIVED BY: (Signature) _____	DATE 5/24/95 TIME _____	COMPANY COURIER SERVICE
RELINQUISHED BY: (Signature) _____	DATE _____ TIME _____	COMPANY _____		RECEIVED BY: (Signature) <i>g-g Hall</i>	DATE 5/24/95 TIME 2:30pm	