RESULTS OF QUARTERLY GROUNDWATER MONITORING MAY 1996 FORMER PENSKE TRUCK LEASING CO. FACILITY 725 JULIE ANN WAY OAKLAND, CALIFORNIA

July 1996

Prepared by

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

GERAGHTY
& MILLER, INC.
Environmental Services

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ENVIRONMENTAL
PROTECTION
96 AUG 26 PM 4:18

August 22, 1996
Project No. RC0019.010

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, May 1996
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 1996 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 (ACHCSA) letter to Penske dated October 24, 1989.

As we discussed during our telephone conversation during March 1996, Penske has requested that Geraghty & Miller complete additional purging on Wells MW-1, MW-4 and MW-7 to try to remove additional diesel concentrations in the groundwater near these wells. This additional purging has resulted in higher concentrations for TPH as diesel being sampled during this current sampling event. However, even with the higher diesel concentrations, the benzene concentrations in the trigger wells remain in compliance with the 21 µg/L level established with the ACHCSA.

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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 1996

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

PENSKE
Truck Leasing

August 16, 1996

Via Facsimile (510) 233-3204

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

Re: Quarterly Groundwater Monitoring Report
Former Penske Truck Leasing Facility
725 Julie Ann Way
Oakland, CA

Dear Paul:

I have reviewed and approve the above referenced report. Please forward the appropriate number of copies to the required regulatory agencies. Please provide two copies for my file with a copy of your report transmittal letters to the agencies. If you have questions or need assistance, please call my office at (610) 775-6010.

Sincerely,

Richard G. Saut

Richard G. Saut
Environmental Project Manager

RGS:jlr
l2081596.rgs

GERAGHTY
& MILLER, INC.
Environment and Infrastructure

a **heidemij** company

July 31, 1996
Project No. RC0019.010

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 1996
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 13, 1996, 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, 1996. The scope of work for groundwater monitoring and sampling consists of collecting depth-to-water measurements, total-well-depth measurements, and water samples from selected wells at this former site. The scope of work also includes the preparation of quarterly groundwater sampling and monitoring reports based on the data and groundwater samples collected. This quarterly groundwater sampling and monitoring program is related to the containment zone (CZ) concept 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) in its letter to Penske dated March 25, 1994.

FIELD PROCEDURES

The quarterly groundwater monitoring was performed on May 13, 1996. In accordance with the CZ remedial approach monitoring and sampling plan referenced above,

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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 measurements were obtained from all wells onsite. Additionally, the wells were checked for the presence of liquid-phase hydrocarbons. No liquid-phase hydrocarbons were observed in monitor wells during this monitoring event. Each well sampled was purged of at least four casing volumes of water. At Penske's request, additional purging was performed to help remove dissolved-phase petroleum hydrocarbons from the groundwater. The exact volume of water removed during the extra purging is unknown but exceeded the minimum four casing volumes. Prior to sampling each well, all equipment that entered the well was washed in a solution of nonphosphate detergent and water and then triple rinsed in deionized water. 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 new disposable polyethylene bailer for each well. The purged water was removed by a Penske-contracted vacuum truck for proper disposal.

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 Sequoia Analytical (Sequoia), in Walnut Creek, 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 (TDS) (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 5.06 feet (Monitor Well MW-5) to 6.40 feet (Monitor Well MW-2) below the ground surface. A contour map based on the groundwater elevation data collected May 13, 1996, 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 during May 1996.

The difference in the elevation of the groundwater surface between Wells MW-2 and MW-4 is 0.37 feet, producing a hydraulic gradient (slope of the groundwater surface) of approximately 0.0038 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 from Monitor Wells MW-1 (310 micrograms per liter [μg/L]) and MW-4 (150 μg/L). TPH as diesel was detected in the groundwater samples collected from Monitor Wells MW-1 (12,000 μg/L), MW-2 (25,000 μg/L), MW-3 (250 μg/L), MW-4 (1,200 μg/L), MW-5 (870 μg/L), and MW-7 (2,300,000 μg/L). Benzene was detected in the groundwater samples collected from Monitor Wells MW-1 (13 μg/L), MW-3 (1.7 μg/L), MW-4 (45 μg/L), and MW-5 (0.59 μg/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 150 milligrams per liter (mg/L) in Monitor Well MW-2 to 7,900 mg/L in 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 CONTAINMENT ZONE APPROACH

The concentrations of benzene detected in the groundwater samples collected from the guard wells (Wells MW-3, MW-5, and MW-7) continue to be below the compliance level (21 μg/L). Benzene was not detected in shallow groundwater samples collected from designated CZ-concept guard well MW-7 for the May 1996 quarterly sampling event. Benzene was detected in guard wells MW-3 at a concentration of 1.7 μg/L and MW-5 at a concentration of 0.59 μg/L, both of which are below the required compliance level of 21 μg/L. Other wells (MW-2 and MW-5) were below the detection limit for benzene. Concentrations of benzene were reported in Wells MW-1 (13 μg/L) and MW-4 (45 μg/L). This compliance level for benzene was agreed to by both the ACHCSA and the RWQCB as part of the CZ concept approach for this former Penske facility. The compliance level of benzene concentrations below 21 μg/L in all of the guard wells has been met during this quarterly sampling event. Generally, higher concentrations for TPH as gasoline, TPH as diesel, and benzene were detected in some wells this quarter due to the extra purging activity requested by Penske. It is thought that this extra purging will help in the long term to remove additional remaining petroleum hydrocarbons from the groundwater downgradient from the former tank excavation, and thereby reduce the source of groundwater impacts.

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 Geologist

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 3	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.

———. 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.

———. January 25, 1996. 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 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		-3.12	33.58	65.00	70	6.30	66.0	9,700	
	25-Mar-91	7.35		-1.93	33.50	71.00	75	6.50	64.0	7,200	
	1-May-91	7.91		-2.49	33.70	67.00	51	6.20	65.0	3,500	
	5-Aug-91	8.63		-3.21	NM	51.00	68	NM	63.6	7,690	
	23-Oct-91	9.00		-3.58	33.77	67.00	67	9.40	64.2	7,470	
	6-Jan-92	8.52		-3.10	33.87	65.00	69	9.40	63.2	6,640	
	20-Jul-92	7.94		-2.52	33.95	65.02	66	7.20	65.7	6,410	
	23-Oct-92	8.62		-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		-0.94	33.80	71.32	65	6.60	66.7	>2,000	
	6-Aug-93	7.39		-1.96	33.88	68.67	69	7.22	68.1	5,890	
	28-Oct-93	7.85		-2.42	33.80	67.48	68	7.00	68.3	5,910	
	1-Feb-94	7.25		-1.82	33.99	69.52	70	7.63	63.2	7,610	
	12-Sep-94	6.75		-1.32	33.95	70.72	70	6.90	75.8	7,950	
	23-Nov-94	6.13		-0.70	33.93	72.28	73	6.10	66.2	>2,000	
	21-Feb-95	6.00		-0.57	34.00	55.44	56	7.36	70	890	
	23-May-95	6.04		-0.61	34.00	54.52	56	7.11	66.2	5,920	
	16-Aug-95	6.03		-0.60	34.00	55.94	56	7.27	69.3	5,510	
	21-Nov-95	6.90		-1.47	34.00	52.85	54	7.19	67.8	5,720	
	13-Feb-96	5.18		0.25	33.87	74.59	>75	7	71.2	6,070	
	13-May-96	**6.10**		**-0.67**	**NM**	**72.20 (f)**	**>73**	**6.5**	**76.4**	**14,370**	

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-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		-2.98	29.39	53.00	55	6.60	64.0	9,000	
	25-Mar-91	7.95		-1.74	29.39	57.00	70	6.60	63.0	6,400	
	1-May-91	8.58		-2.37	29.60	55.00	50	6.20	64.0	3,000	
	5-Aug-91	9.33		-3.12	NM	40.00	54	NM	65.1	5,680	
	23-Oct-91	9.57		-3.36	29.35	52.00	53	7.60	65.4	7,970	
	6-Jan-92	9.08		-2.87	29.50	53.00	53	9.18	62.8	6,990	
	20-Jul-92	8.60		-2.39	29.45	54.21	55	6.50	65.2	6,690	
	23-Oct-92	9.33		-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		-0.75	29.32	58.16	60	6.90	66.7	>2,000	
	6-Aug-93	8.05		-1.85	29.33	55.33	66.5	7.26	66.4	6,250	
	28-Oct-93	8.50		-2.30	29.43	54.40	55	7.08	71.2	6,780	
	1-Feb-94	7.87		-1.67	29.54	56.32	57	8.35	62.4	8,250	
	12-Sep-94	7.42		-1.22	29.45	57.24	66	(e)	69.9	8,130	
	22-Nov-94	6.75		-0.55	29.50	59.15	60	6.8	67.6	>2,000	
	21-Feb-95	6.20		0.00	30.00	47.12	48	6.97	64	1,050	
	23-May-95	6.10		0.10	30.00	46.60	48	7.18	70.3	7,710	
	16-Aug-95	6.69		-0.49	30.00	46.62	46	7.42	65	6,790	
	21-Nov-95	7.62		-1.42	30.00	43.64	45	7.30	67.6	7,250	
	13-Feb-96	5.81		0.39	29.47	61.51	>62	7	71.8	2,890	
	13-May-96	**6.40**		**-0.20**	**NM**	**59.98 (f)**	**>60**	**5.5**	**74.4**	**860**	

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Former Penske Truck Leasing Facility,
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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		-3.35	31.61	58.00	60	6.10	66.0	1,020	
	25-Mar-91	7.98		-1.88	31.60	70.00	75	6.40	65.0	8,200	
	1-May-91	8.58		-2.48	33.70	65.00	50	6.40	67.0	4,100	
	5-Aug-91	9.26		-3.16	NM	50.00	67	NM	64.1	6,190	
	23-Oct-91	9.60		-3.50	33.48	66.00	66	7.30	67.3	8,430	
	6-Jan-92	9.08		-2.98	33.66	64.00	64	9.98	61.7	7,010	
	20-Jul-92	8.59		-2.49	33.76	65.44	66	6.80	66.0	7,540	
	23-Oct-92	9.30		-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		-0.88	33.55	69.08	72	6.90	68.2	>2,000	
	6-Aug-93	8.01		-1.91	33.55	66.40	56 (d)	7.43	67.3	6,490	
	28-Oct-93	8.45		-2.35	33.60	65.40	66	7.02	72.0	6,590	
	1-Feb-94	8.03		-1.93	33.74	66.84	67	8.32	63.3	8,400	
	12-Sep-94	7.39		-1.29	33.70	68.40	70	7.73	68.7	8,030	
	22-Nov-94	6.76		-0.66	33.75	70.17	70	6.60	65.8	>2,000	
	21-Feb-95	6.36		-0.26	33.50	53.74	54	6.99	85.4	880	
	23-May-95	6.48		-0.38	33.50	52.69	54	7.25	68.7	6,060	
	16-Aug-95	6.63		-0.53	33.50	53.74	54	7.53	66.1	5,390	
	21-Nov-95	7.51		-1.41	33.50	50.68	52	7.34	67.4	5,730	
	13-Feb-96	5.91		0.19	33.69	72.24	>73	7	71.5	6,790	
	13-May-96	**6.36**		**-0.26**	**NM**	**71.06 (f)**	**>72**	**6.5**	**76.7**	**14,360**	

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

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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		-1.03	33.04	69.76	70	6.80	69.1	>2,000	
	6-Aug-93	7.20		-2.02	32.92	66.87	60 (d)	7.44	68.9	13,900	
	28-Oct-93	7.64		-2.46	32.98	65.88	66	6.79	72.1	11,940	
	1-Feb-94	7.26		-2.08	33.31	67.72	68	8.65	63.6	18,110	
	12-Sep-94	6.55		-1.37	33.41	69.84	60 (d)	6.03	77.5	16,710	
	23-Nov-94	6.08		-0.90	33.35	70.90	55 (d)	5.60	66.7	>2,000	
	21-Feb-95	5.36		-0.18	33.50	55.71	48 (d)	6.83	80.2	880	
	23-May-95	5.05		0.13	33.50	55.48	59	6.71	66.5	12,090	
	16-Aug-95	5.63		-0.45	33.50	55.74	33 (d)	7.34	69.8	8,670	
	21-Nov-95	6.63		-1.45	33.50	52.39	34 (d)	7.03	68.2	10,380	
	13-Feb-96	5.14		0.04	33.25	73.08	>74	7	75.3	6,090	
	13-May-96	**5.75**		**-0.57**	**NM**	**71.50 (f)**	**>72**	**7**	**76.1**	**>20,000**	
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		-0.72	31.36	67.42	68	7.20	68.0	>2,000	
	6-Aug-93	6.19		-1.48	31.30	65.29	68	7.47	63.6	5,180	
	28-Oct-93	6.86		-2.15	31.43	62.72	48 (d)	7.12	70.6	4,980	
	1-Feb-94	6.48		-1.77	31.43	64.84	49 (d)	(e)	63.1	6,120	
	12-Sep-94	5.89		-1.18	31.43	66.40	39 (d)	(e)	69.4	5,020	
	22-Nov-94	5.66		-0.95	31.44	67.02	58 (d)	6.80	68.4	>2,000	
	21-Feb-95	4.90		-0.19	31.00	51.68	45 (d)	7.30	82.5	880	
	23-May-95	4.86		-0.15	31.00	50.97	52	7.03	66.5	4,320	
	16-Aug-95	4.97		-0.26	31.00	52.06	36 (d)	7.48	67.5	3,900	
	21-Nov-95	5.82		-1.11	31.00	49.10	32 (d)	7.26	67.0	4,110	
	13-Feb-96	4.86		-0.15	31.41	69.03	>69	7	68.3	5,950	
	13-May-96	**5.06**		**-0.35**	**NM**	**68.51 (f)**	**>69**	**6.5**	**71.9**	**9,830**	

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		-0.67	24.88	48.98	50	6.70	66.4	>2,000	
	21-Feb-95	NS		NS	NS	NS	NS	NS	NS	NS	
	23-May-95	5.32		0.05	24.70	NS	NS	NS	NS	NS	
	16-Aug-95	5.97		-0.60	24.70	NS	NS	NS	NS	NS	
	21-Nov-95	6.78		-1.41	24.70	NS	NS	NS	NS	NS	
	13-Feb-96	5.14		0.23	24.71	NS	NS	NS	NS	NS	
	13-May-96	**5.64**		**-0.27**	**NM**	**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		-0.23	28.46	59.40	60	6.00	64.6	>2,000	
	21-Feb-95	5.25		0.13	28.30	45.64	46	7.46	69.5	910	
	23-May-95	5.10		0.28	28.30	45.24	46	7.21	65.0	5,740	
	16-Aug-95	5.42		-0.04	28.30	45.76	46	7.36	66.8	5,560	
	21-Nov-95	6.28		-0.90	28.30	42.99	44	7.29	65.9	5,650	
	13-Feb-96	4.64		0.74	28.39	61.75	>62	7	70.1	7,050	
	13-May-96	**5.36**		**0.02**	**NM**	**59.88 (f)**	**>60**	**6.5**	**76.6**	**15,030**	
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		-0.57	25.66	78.60	75	5.60	61.5	>2,000	
	21-Feb-95	NS		NS	NS	NS	NS	NS	NS	NS	
	23-May-95	5.53		-0.09	25.40	NS	NS	NS	NS	NS	
	16-Aug-95	5.68		-0.24	25.40	NS	NS	NS	NS	NS	
	21-Nov-95	6.37		-0.93	25.40	NS	NS	NS	NS	NS	
	13-Feb-96	5.36		0.08	25.54	NS	NS	NS	NS	NS	
	13-May-96	**5.62**		**-0.18**	**NM**	**NS**	**NS**	**NS**	**NS**	**NS**	

Notes appear on the following page.

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)

(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.
(f) Purge volume estimated using well depth-to-bottom measurements from previous quarter.

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 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
	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
	16-Aug-95	ND(<50)	740	ND(<0.5)	ND(<0.5)	1.4	1.4	3,800
	21-Nov-95	ND(<50)	410	ND(<0.5)	ND(<0.5)	0.7	0.8	4,100
	13-Feb-96	ND(<50)	400	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,600
	13-May-96	**310 (k)**	**12,000**	**13**	**14**	**2.4**	**11**	**3,500**

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-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
	16-Aug-95	ND(<50)	190	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	5,400
	21-Nov-95	ND(<50)	180	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	5,800
	13-Feb-96	ND(<50)	1,500	ND(<0.5)	ND(<0.5)	ND(<0.5)	8.7	1,100
	13-May-96	**ND(<50)**	**25,000 (l)**	**ND(<0.5)**	**ND(<0.5)**	**ND(<0.5)**	**ND(<0.5)**	**150**

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
	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
	16-Aug-95	ND(<50)	240	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	4,100
	21-Nov-95	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	4,200
	13-Feb-96	ND(<50)	72	16	ND(<0.5)	ND(<0.5)	0.73	3,400
	13-May-96	**ND(<50)**	**250 (m)**	**1.7**	**ND(<0.5)**	**ND(<0.5)**	**ND(<0.5)**	**3,700**

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-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
	16-Aug-95	ND(<50)	610	4.1	ND(<0.5)	ND(<0.5)	ND(<0.5)	7,100
	21-Nov-95	ND(<50)	280	1.0	ND(<0.5)	ND(<0.5)	ND(<0.5)	9,800
	13-Feb-96	980 (i)	7,500	570	ND(<0.5)	9.2	13	3,600
	13-May-96	**150 (k)**	**1,200**	**45**	**ND(<1.0)**	**ND(<1.0)**	**1.5**	**7,900**
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
	16-Aug-95	ND(<50)	590	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,800
	21-Nov-95	ND(<50)	500	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	2,800
	13-Feb-96	ND(<50)	830	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,000
	13-May-96	**ND(<50)**	**870**	**0.59**	**ND(<0.5)**	**ND(<0.5)**	**ND(<0.5)**	**2,700**

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
	21-Feb-95	NS	NS	NS	NS	NS	NS	NS
	23-May-95	NS	NS	NS	NS	NS	NS	NS
	16-Aug-95	NS	NS	NS	NS	NS	NS	NS
	21-Nov-95	NS	NS	NS	NS	NS	NS	NS
	13-Feb-96	NS	NS	NS	NS	NS	NS	NS
	13-May-96	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**
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
	16-Aug-95	53	1,100	0.5	ND(<0.5)	ND(<0.5)	0.5	4,000
	21-Nov-95	87	9,100	1.4	ND(<0.5)	1.0	1.5	4,200
	13-Feb-96	1,800,000 (j)	5,000,000	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)	3,900
	13-May-96	**ND(<50,000)**	**2,300,000**	**ND(<500)**	**ND(<500)**	**ND(<500)**	**500 (i)**	**3,500**
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
	16-Aug-95	NS	NS	NS	NS	NS	NS	NS
	21-Nov-95	NS	NS	NS	NS	NS	NS	NS
	13-Feb-96	NS	NS	NS	NS	NS	NS	NS
	13-May-96	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**

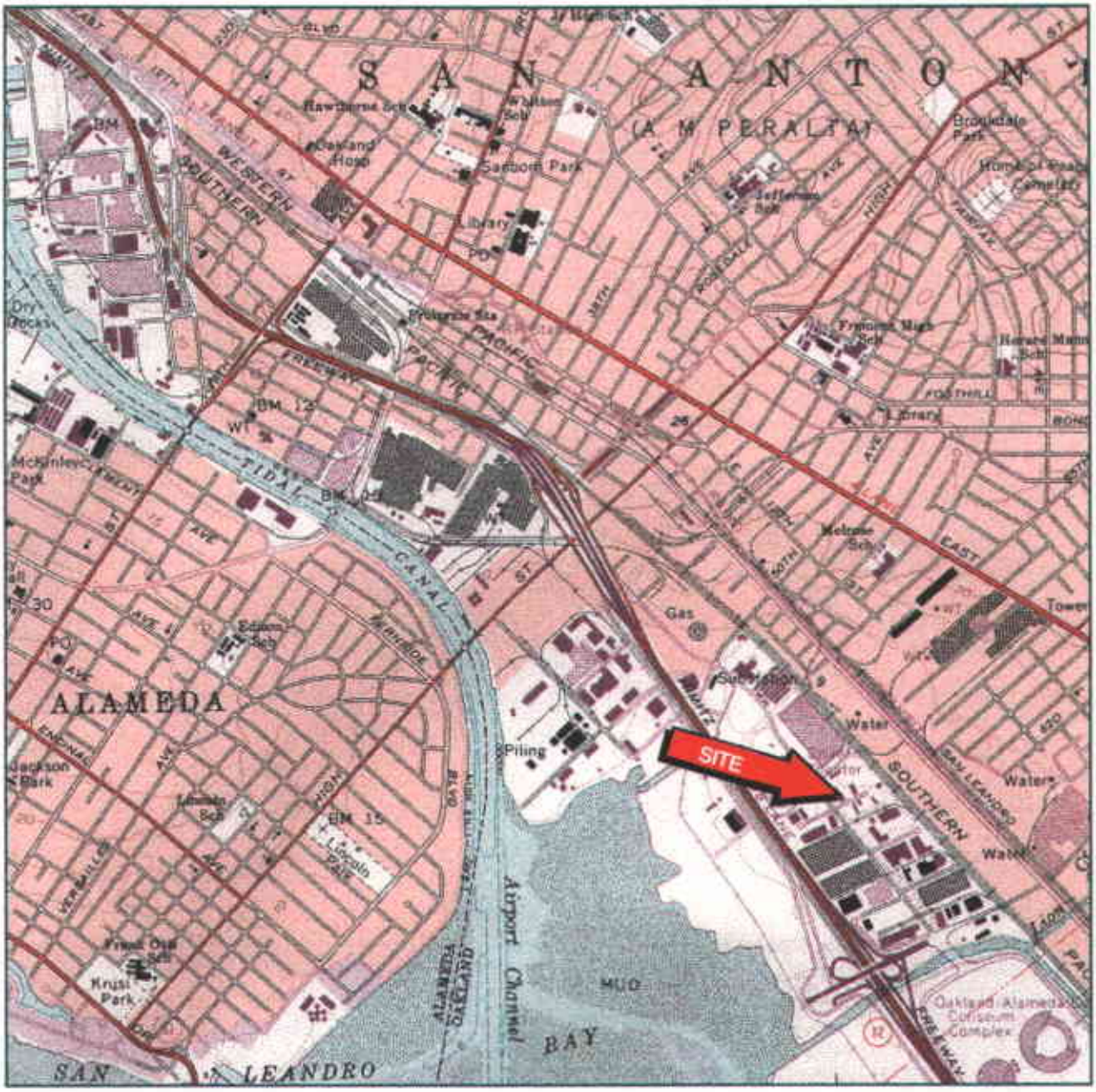
Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling
Former Penske Truck Leasing Facility,
725 Julie Ann Way, Oakland, California.

Well	Date	TPH 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)
Trip Blank	**13-May-96**	**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.
(i) Laboratory reports that chromatogram indicates unidentified carbons >C8.
(j) Laboratory reports that chromatogram indicates unidentified carbons >C9.
(k) Laboratory reports gasoline and unidentified hydrocarbons >C8.
(l) Laboratory reports diesel and unidentified hydrocarbons >C16.
(m) Laboratory reports diesel and discrete peaks.

( ) 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 Sequoia Analytical, Walnut Creek, California.



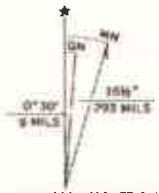
SCALE 1:24000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET



UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

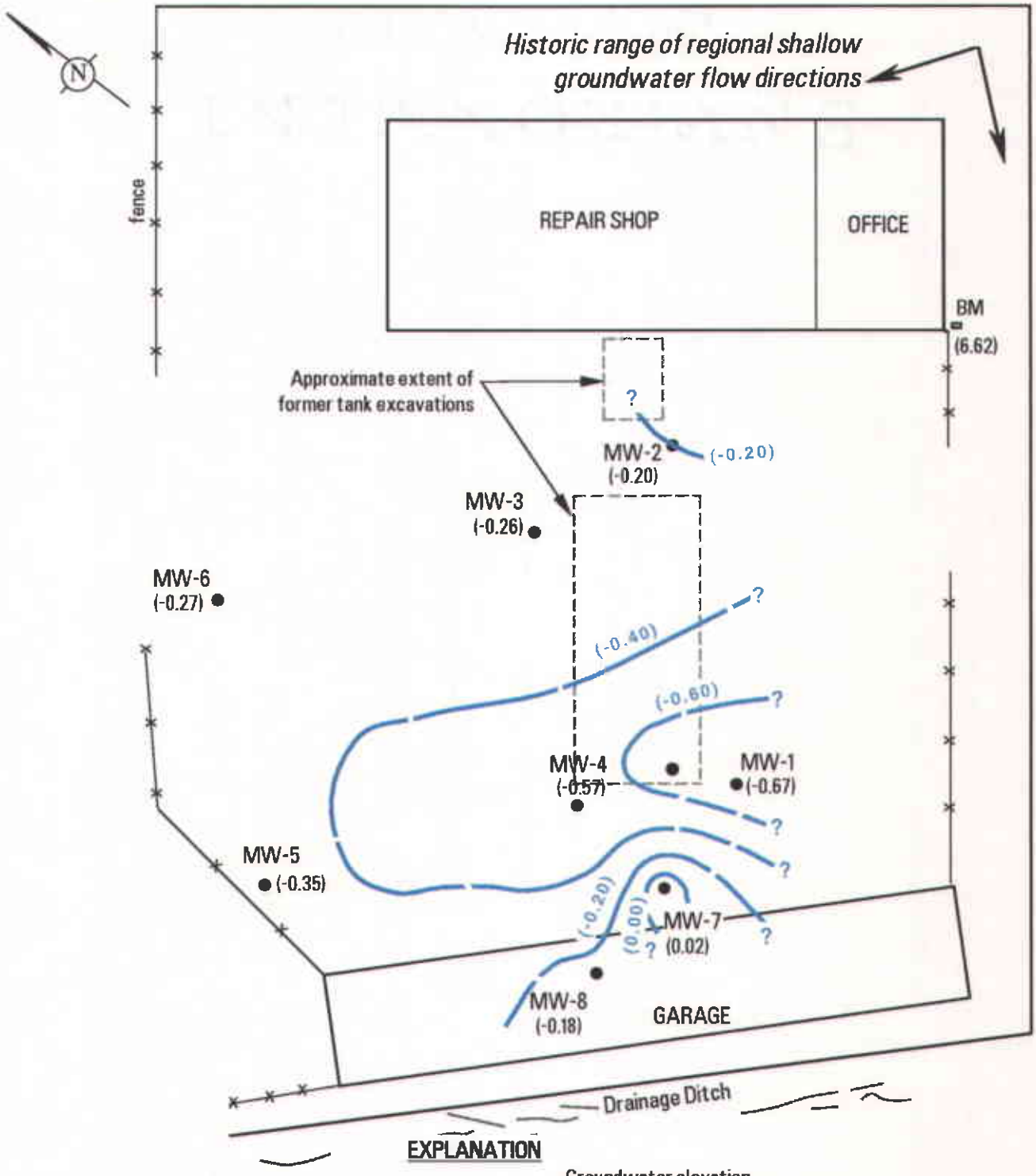
Reference: U.S.G.S. 7-minute Quadrangle, Oakland East, California, revised, Photorevised 1980.

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



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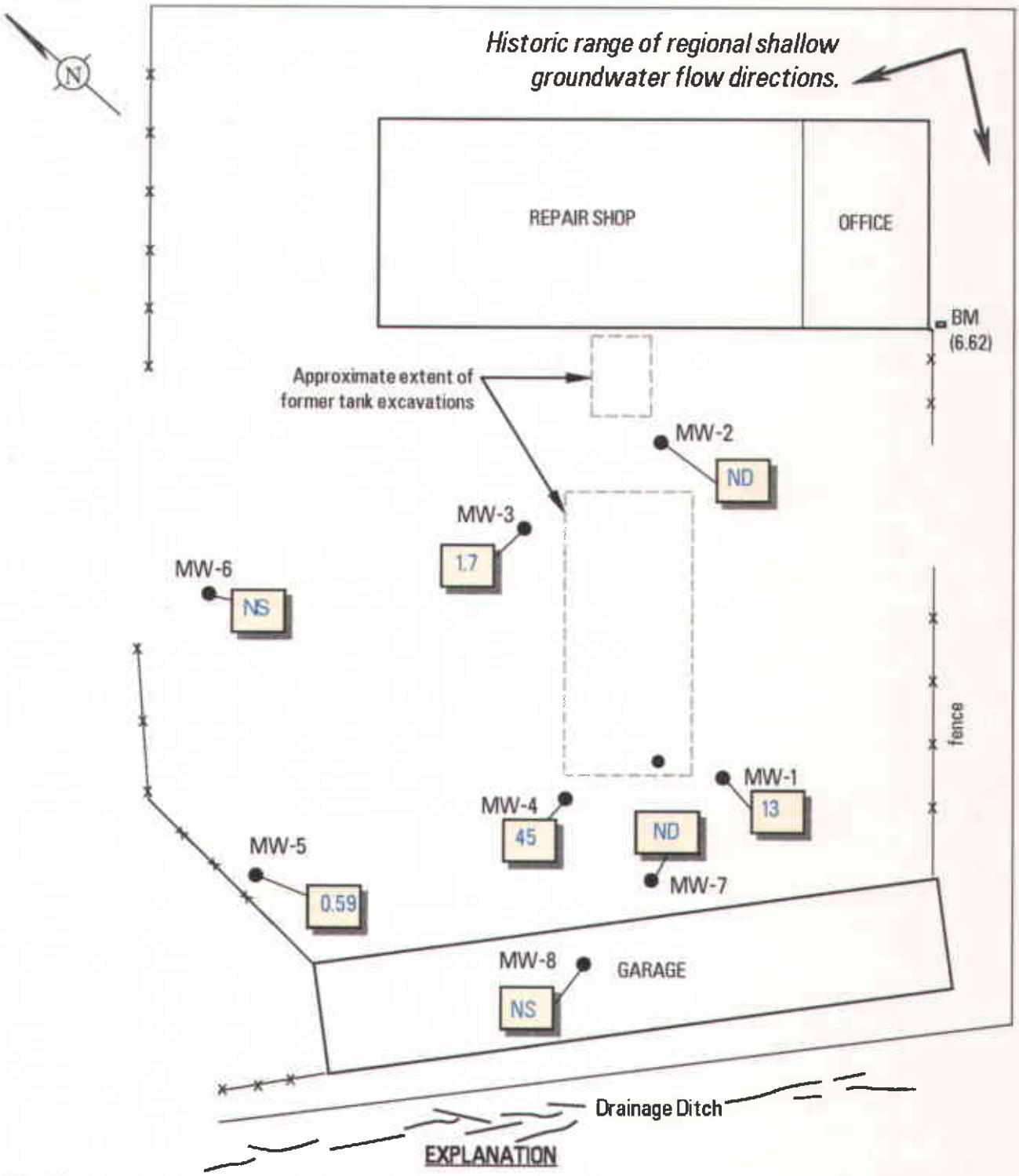
Project No. RC0019.000

SHALLOW GROUNDWATER CONTOURS
May 1996
Former Penske Truck Leasing Co.
725 Julie Ann Way, Oakland, California

FIGURE
2



GERAGHTY & MILLER, INC.
Environmental Services
A **Heidemij** Company

Project No. RC0019.009

BENZENE CONCENTRATIONS
May 1996
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

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Geraghty & Miller, Inc.
[illegible]50 Marina Way South
Richmond, CA 94804
Attention: Paul Hehn

Client Project ID: #RC0019.005
Sample Matrix: Water
Analysis Method: EPA 5030/8015 Mod./8020
First Sample #: 605-0966

Sampled: May 13, 1996
Received: May 14, 1996
Reported: May 30, 1996

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 605-0966 MW-1	Sample I.D. 605-0967 MW-2	Sample I.D. 605-0968 MW-3	Sample I.D. 605-0969 MW-4	Sample I.D. 605-0970 MW-5	Sample I.D. 605-0971 MW-7
Batch Number:		GC051796 802009A	GC051796 802009A	GC051796 802009A	GC051796 802009A	GC051796 802009A	GC051796 802009A
Purgeable Hydrocarbons	50	310	N.D.	N.D.	150	N.D.	N.D.
Benzene	0.50	13	N.D.	1.7	45	0.59	N.D.
Toluene	0.50	14	N.D.	N.D.	N.D.	N.D.	N.D.
Ethyl Benzene	0.50	2.4	N.D.	N.D.	N.D.	N.D.	N.D.
Total Xylenes	0.50	11	N.D.	N.D.	1.5	N.D.	500
Chromatogram Pattern:		Gasoline & Unidentified Hydrocarbons >C8	--	--	Gasoline & Unidentified Hydrocarbons >C8	--	Unidentified Hydrocarbons >C8

Quality Control Data

Report Limit Multiplication Factor:	2.0	1.0	1.0	2.0	1.0	1,000
Date Analyzed:	5/17/96	5/17/96	5/17/96	5/17/96	5/17/96	5/17/96
Instrument Identification:	HP-9	HP-9	HP-9	HP-9	HP-9	HP-9
Surrogate Recovery, %: (QC Limits = 70-130%)	79	100	101	72	94	99

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Geraghty & Miller, Inc.	Client Project ID:	#RC0019.005	Sampled: -
1[illegible]0 Marina Way South	Sample Matrix:	Water	Received: May 14, 1996
Richmond, CA 94804	Analysis Method:	EPA 5030/8015 Mod./8020	Reported: May 30, 1996
Attention: Paul Hehn	First Sample #:	605-0972	

QC Batch Number: GC051796
802009A

TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

Analyte	Reporting Limit µg/L	Sample I.D. 605-0972 LB-TB
Purgeable Hydrocarbons	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Total Xylenes	0.50	N.D.
Chromatogram Pattern:		--

Quality Control Data

Report Limit Multiplication Factor:	1.0
Date Analyzed:	5/17/96
Instrument Identification:	HP-9
Surrogate Recovery, %: (QC Limits = 70-130%)	101

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Sequoia Analytical

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Geraghty & Miller, Inc.
1[illegible]50 Marina Way South
R[illegible]hmond, CA 94804
Attention: Paul Hehn

Client Project ID: #RC0019.005
Sample Matrix: Water
Analysis Method: EPA 3510/8015 Mod.
First Sample #: 605-0966

Sampled: May 13, 1996
Received: May 14, 1996
Reported: May 30, 1996

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Analyte	Reporting Limit µg/L	Sample I.D. 605-0966 MW-1	Sample I.D. 605-0967 MW-2	Sample I.D. 605-0968 MW-3	Sample I.D. 605-0969 MW-4	Sample I.D. 605-0970 MW-5	Sample I.D. 605-0971 MW-7
Batch Number:		SP051596 8015EXB	SP051596 8015EXB	SP051596 8015EXB	SP051596 8015EXB	SP051596 8015EXB	SP051596 8015EXB
Extractable Hydrocarbons	50	12,000	25,000	250	1,200	870	2,300,000
Chromatogram Pattern:		Diesel	Diesel & Unidentified Hydrocarbons >C16	Diesel & Discrete Peaks	Diesel	Diesel	Diesel

Quality Control Data

Report Limit Multiplication Factor:	20	1.0	1.0	1.0	1.0	500
Date Extracted:	5/15/96	5/15/96	5/15/96	5/15/96	5/15/96	5/15/96
Date Analyzed:	5/16/96	5/16/96	5/16/96	5/16/96	5/16/96	5/16/96
Instrument Identification:	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B	HP-3B

Extractable Hydrocarbons are quantitated against a fresh diesel standard.
Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

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

Client Project ID: #RC0019.005
Sample Descript: Water
Analysis for: Total Dissolved Solids
First Sample #: 605-0966

Sampled: May 13, 1996
Received: May 14, 1996
Analyzed: May 16, 1996
Reported: May 30, 1996

LABORATORY ANALYSIS FOR: Total Dissolved Solids

Sample Number	Sample Description	Detection Limit mg/L	Sample Result mg/L	QC Batch Number	Instrument ID
605-0966	MW-1	1.0	3,500	IN051696160100A	Manual
605-0967	MW-2	1.0	150	IN051696160100A	Manual
605-0968	MW-3	1.0	3,700	IN051696160100A	Manual
605-0969	MW-4	1.0	7,900	IN051696160100A	Manual
605-0970	MW-5	1.0	2,700	IN051696160100A	Manual
605-0971	MW-7	1.0	3,500	IN051696160100A	Manual

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL, #1271

K. Van Slambrook

Kevin Van Slambrook
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
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819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Geraghty & Miller, Inc.
[illegible]50 Marina Way South
Richmond, CA 94804
Attention: Paul Hehn

Client Project ID: #RC0019.005
Matrix: Liquid

QC Sample Group: 6050966-972

Reported: May 30, 1996

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes	Diesel	Total Dissolved Solids
QC Batch#:	GC051796	GC051796	GC051796	GC051796	SP051596	IN051696
	802009A	802009A	802009A	802009A	8015EXB	160100A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	EPA 8015	EPA 160.1
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030	EPA 3510	EPA 160.1
Analyst:	S. Chullakorn	S. Chullakorn	S. Chullakorn	S. Chullakorn	J. Dinsay	Y. Borinshteyn
MS/MSD #:	6050972	6050972	6050972	6050972	BLK051596	6050966
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	N.D.	3500 mg/L
Prepared Date:	5/17/96	5/17/96	5/17/96	5/17/96	5/15/96	5/16/96
Analyzed Date:	5/17/96	5/17/96	5/17/96	5/17/96	5/16/96	5/16/96
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	HP-3A	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	500 mg/L
Result:	22	24	25	72	240	4000
MS % Recovery:	110	120	125	120	80	100
Dup. Result:	21	23	23	68	260	4000
MSD % Recov.:	105	115	115	113	87	100
RPD:	4.7	4.3	8.3	5.7	8.0	0.0
RPD Limit:	0-25	0-25	0-25	0-25	0-50	0-20

LCS #:	9LCS051796	9LCS051796	9LCS051796	9LCS051796	LCS051596	160.1YB05J
Prepared Date:	5/17/96	5/17/96	5/17/96	5/17/96	5/15/96	5/16/96
Analyzed Date:	5/17/96	5/17/96	5/17/96	5/17/96	5/16/96	5/16/96
Instrument I.D.#:	HP-9	HP-9	HP-9	HP-9	HP-3A	Manual
Conc. Spiked:	20 µg/L	20 µg/L	20 µg/L	60 µg/L	300 µg/L	500 mg/L
LCS Result:	22	23	24	72	230	470
LCS % Recov.:	110	115	120	120	77	94
MS/MSD LCS Control Limits	70-130	70-130	70-130	70-130	11-148	70-130

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

GERAGHTY & MILLER, INC.
Environmental Services

Laboratory Task Order No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number RC0019.005

Project Location Fenske Oakland

Laboratory Sequoia

Sampler(s)/Affiliation Geraghty & Miller
G Crowley

SAMPLE IDENTITY	Code	Date/Time Sampled	Lab ID	SAMPLE BOTTLE / CONTAINER DESCRIPTION: TPH-G/BTEX 8015/8020	TPH-Diesel 8015	Total Dissolved Solids						TOTAL
MW-1	L	5/13 ~~10:00~~ 3:20		X	X	X	6050966 A-E					5
MW-2	L	5/13 12:40		X	X	X	6050967					5
MW-3	L	5/13 12:10		X	X	X	6050968					5
MW-4	L	5/13 2:50		X	X	X	6050969					5
MW-5	L	5/13 1:45		X	X	X	6050970					5
MW-7	L	5/13 4:00		X	X	X	6050971					5
LB-TB	L	~~10:00~~		X	—	—	6050972					1

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

Total No. of Bottles/ Containers: 31

				Seal Intact?
Relinquished by: Mary Crowley	Organization: Geraghty & Miller	Date 5/14/96	Time 1135	
Received by: [signature]	Organization: SAS	Date 5/14/96	Time 1135	(Yes) No N/A
Relinquished by: [signature]	Organization: SAS	Date 5/14/96	Time 1310	Seal Intact?
Received by: [signature]	Organization: Seq	Date 5/14/96	Time 1310	Yes No N/A

Special Instructions/Remarks: _____

Delivery Method: ☐ In Person ☐ Common Carrier _____ ☒ Lab Courier ☐ Other _____