

# ARCADIS GERAGHTY & MILLER



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

ARCADIS Geraghty & Miller, Inc.  
1050 Marina Way South  
Richmond  
California 94804  
Tel 510 233 3200  
Fax 510 233 3204

Subject:

Results of Quarterly Groundwater Monitoring, Second Quarter 1999  
Former Penske Truck Leasing Company Facility  
725 Julie Ann Way  
Oakland, California

WESTERN REGION

Dear Mr. Chan:

Richmond, California,  
September 14, 1999

The above referenced report is being forwarded to you at the request of Penske Truck Leasing Co. The report details the results of quarterly groundwater monitoring and sampling for the second quarter 1999 at the Former Penske Truck Leasing Facility at 725 Julie Ann Way, Oakland.

Contact:  
Paul V. Hehn

In response to the request in your letter of February 22, 1999, biodegradation parameters have been collected and reported as part of this current report. Also in response to your February 22, 1999 letter, proposed alternatives for remediation, including the estimate amount and cost of adding oxygen-releasing compound, have been presented to Penske. Penske is evaluating the various remedial options.

Extension:  
(510) 233-3200

Please also note the reductions in concentrations for most constituents since mid-1997 as shown in Table 2.

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

Sincerely,

ARCADIS Geraghty & Miller, Inc.

Paul Hehn, R.G.  
Project Geologist/Project Manager

Copies:

Mr. Richard G. Saut  
Penske Truck Leasing Co.

Files - Project No. RC000019.0010

99 SEP 15 PM 4: 22  
ENVIRONMENTAL  
PROTECTION

Our ref.:  
Project No. RC000321.0002/act999

September 29, 1999

ENVIRONMENTAL  
PROTECTION



Truck Leasing

99 SEP 29 PM 4: 20

Mr. Barney Chan  
Hazardous Materials Specialist  
Alameda County Health Care Services Agency  
Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

Re: Remediation Planning and Change in Consultant  
Former Penske Truck Leasing Facility  
725 Julie Ann Way  
Oakland, CA

Dear Mr. Chan,

In reviewing our remedial options, the progress of the project to date, the overall cost to reach this point and then complete the project, Penske Truck Leasing Co., L.P. has elected to retain SECOR International, Inc. to initiate further site remediation. SECOR has submitted a proposal to remediate the site to acceptable levels using a Fenton's agent injection program. A work plan detailing this remedial option will be delivered for your review by October 30, 1999.

We plan to retain Arcadis - Geraghty & Miller to complete the 1999 3<sup>rd</sup> Quarter monitoring. SECOR will provide the 1999 4<sup>th</sup> Quarter monitoring and all monitoring related to the remedial work plan.

Following your review and approval of the work plan, we would like to schedule a meeting and a site visit for all involved parties to better understand the project and initiate a closer working relationship towards completing the remediation. If you have questions or would like to discuss the project, please call my office at 610-775-6010.

Sincerely,

Richard G. Saut  
Environmental Project Manager

RGS/csk  
L1092799.rgs

cc: D. Pratt  
A. McGrath

- Questions re: Fenton's agent*
- Pilot Study? # of applications*
  - pH*
  - Concentration of H<sub>2</sub>O<sub>2</sub>*
  - Will TOC be run?*
  - Confirmation / initial spring*

**PENSKE**

*Truck Leasing*

**Via Fax 510-233-3204**

August 16, 1999

Mr. Paul Hehn  
Arcadis, Inc.  
1050 Marina Way South  
Richmond, CA 94804

Re: Second Quarter 1999  
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 Saut*

Richard G. Saut  
Environmental Project Manager

RGS/csk  
L2081699.rgs

Results of Quarterly Groundwater Monitoring  
Second Quarter 1999

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

 **ARCADIS**  
GERAGHTY & MILLER

1050 Marina Way South  
Richmond, CA 94804  
(510) 233-3200

QUARTERLY R E P O R T  
Prepared August 20, 1999

# ARCADIS GERAGHTY & MILLER



Mr. Richard G. Saut  
Environmental Project Manager  
Penske Truck Leasing Company, L.P.  
Route 10, Green Hills  
P.O. Box 7635  
Reading, Pennsylvania 19603-7635

ARCADIS Geraghty & Miller, Inc.  
1050 Marina Way South  
Richmond  
California 94804  
Tel 510 233 3200  
Fax 510 233 3204

WESTERN REGION

Subject:  
Results of Quarterly Groundwater Monitoring, Second Quarter 1999  
Former Penske Truck Leasing Facility  
725 Julie Ann Way, Oakland, California.

Richmond,  
August 20, 1999

Dear Mr. Saut:

Contact:  
Paul V. Hehn

This report presents the results of the second quarter 1999 quarterly groundwater monitoring and sampling activities performed on June 3, 1999, 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 an ARCADIS 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 for laboratory analysis from selected wells. The scope of work also includes preparation of quarterly groundwater sampling and monitoring reports based on the data and groundwater samples collected during each quarterly event.

Extension:  
510 233 3200

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.

As requested by the ACHCSA in its letter to Penske dated February 22, 1999, additional monitoring for dissolved oxygen and oxygen reduction potential (redox) was performed during this quarterly sampling event. The details of this additional monitoring and sampling are discussed in this report.

## Discussion on Regulatory Requested Changes

A letter dated December 9, 1997 from Mr. Barney Chan at the ACHCSA was received by Penske. In his letter, Mr. Chan stated that Monitoring Wells MW-3 and

MW-6 no longer need to be sampled. He also stated that there was no need to analyze for total dissolved solids (TDS) from any of the wells being sampled at the site. Consequently, TDS is no longer an analyte for groundwater samples collected. Monitoring Wells MW-3 and MW-6 are no longer being sampled.

Mr. Chan also requested that dissolved oxygen (DO) and oxygen-reduction potential (redox) measurements be collected from all wells during future quarterly sampling events (Figure 4). These measurements will collect information to monitor biodegradation activity.

In order to provide a baseline of DO and redox information, these measurements were collected and evaluated for all available wells during the fourth quarter 1998 sampling event. Measurements were collected from wells MW-2, MW-3, MW-5, MW-6, and MW-8. DO and redox measurements were not collected from wells MW-1, MW-4, and MW-7 since globular masses of weathered product in the water in these wells coated the measuring instruments making measurements inaccurate.

In another letter from the ACHCSA to Penske dated June 25, 1998, Mr. Chan stated that the monitoring of well MW-5 could be reduced to semi-annual. The fourth quarter 1998 sampling event represented the initial semi-annual sampling of this well. Monitoring Well MW-5 was sampled again during the current second quarter of 1999 sampling event and will be sampled every other quarter going forward.

In an additional letter from the ACHCSA to Penske dated February 22, 1999, Mr. Chan reiterated his interest in the collection of biodegradation parameter information. This information was collected and reported during the previous (1<sup>st</sup> Quarter 1999) quarterly event report. The measurements for dissolved oxygen and redox will continue in future quarterly groundwater sampling events.

In his February 22, 1999 letter, Mr. Chan also requested that the amount of oxygen-releasing compound be estimated and methods of remediation on the remaining petroleum hydrocarbons at the facility be proposed. Proposed alternatives for remediation, including the estimate amount and cost of adding oxygen-releasing compound, has been presented to Penske. Penske is currently evaluating the various options for this remediation.

## Field Procedures

The second quarter groundwater monitoring was performed on June 3, 1999. The monitoring-well locations are shown in Figure 2. Monitoring was completed and groundwater samples were collected from Monitoring Wells MW-1, MW-2, MW-4, MW-5, and MW-7 in accordance with the CZ remedial approach monitoring and sampling plan referenced above.

As a result of authorization by the ACHCSA, wells MW-3 and MW-6 are no longer being sampled. However, wells MW-3 and MW-6 are still being measured for depth to water during each quarterly monitoring and sampling event to provide information for the groundwater contour map. Monitoring Well MW-5 was also sampled during the current quarterly event. This well is being sampled on a semiannual basis and was previously sampled during the fourth quarter of 1998. Well MW-5 will be sampled again during the fourth quarter of 1999.

The ACHCSA also requested that all wells be monitored for dissolved oxygen and redox. Both measurements were collected during this quarter. Wells that detected measurable liquid-phase hydrocarbons (LPH) were not measured for dissolved oxygen and redox since the probes become fouled if they are lowered into the LPH layer. These measurements will be collected again during the next quarter.

Monitoring Well MW-8 was not sampled during the current sampling event since the analytical results of the groundwater samples collected during the previous quarter were within the authorized compliance level. Further discussion of the compliance results is presented in the Discussion and Compliance with Containment Zone Approach section of this report.

Prior to sampling, depth-to-water measurements were obtained from all on-site wells. Additionally, the wells were checked for the presence of LPH. All equipment that entered the well was washed in a solution of nonphosphate detergent and water and then triple rinsed in deionized water. Each well sampled was purged of at least four casing volumes of water. At Penske's request, additional purging was performed to remove dissolved-phase petroleum hydrocarbons from the groundwater. Due to the purging equipment used to perform the extra purging, the exact amount of water purged from each well cannot be accurately determined but definitely exceeded the amount necessary for a minimum full four well volume purge. The approximate well volume estimated by the field personnel indicates that the extra purge volume generally exceed the four volume purge requirements by 15 to 50%. During the current event, it was estimated that 700 gallons were purged from eight wells at the site. This total is more than twice the normal amount of groundwater that would be purged during a four volume well-purge for all of the wells sampled during this event.

) if ORC is added  
do not over purge  
wells.

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.

Groundwater samples were put into the appropriate United States Environmental Protection Agency (USEPA) approved containers, placed on ice, and transported to Quanterra Laboratory in West Sacramento, California, under appropriate chain-of-custody documentation. The water samples were analyzed for total petroleum hydrocarbons (TPH) as gasoline (USEPA Method 8015, modified); TPH as diesel (USEPA Method 8015, modified); benzene, toluene, ethylbenzene, and total xylenes (BTEX) (USEPA Method 8020); and methyl tertiary butyl ether (MTBE) (USEPA Method 8020).

## **Results**

### **Shallow Groundwater Flow**

A summary of the depth-to-water data is presented in Table 1. Depth to water ranged from 5.20 feet (Monitoring Well MW-5) to 6.79 feet (Monitoring Well MW-2) below the ground surface. A contour map based on the groundwater elevation data collected June 3, 1999, is presented in Figure 2. The historic shallow groundwater flow is generally 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 June 1999. LPH were measured in wells MW-1 (0.01 foot) and MW-7 (0.08 foot) during this monitoring event.

The difference in the elevation of the groundwater surface between wells MW-2 and MW-1 is 0.04 feet, producing a hydraulic gradient (slope of the groundwater surface) of approximately 0.0004 foot/foot in a southwesterly direction. The groundwater gradient and groundwater contours for the current quarter are consistent with those presented during previous quarters.

### **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. The results of the specific conductance, dissolved oxygen, and redox measurements are presented in Table 1.

### **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 Monitoring Wells MW-1 (960 µg/L), MW-2 (81 µg/L), MW-4 (210 µg/L) and MW-7 (690 µg/L). TPH as diesel was detected in the groundwater samples collected



TPH &

from Monitoring Wells MW-1 (82,000 µg/L), MW-2 (1,900 µg/L), MW-4 (2,500 µg/L), MW-5 (800 µg/L), and MW-7 (1,300,000 µg/L). Benzene was detected in the groundwater samples collected from Monitoring Wells MW-1 (23 µg/L), MW-4 (0.70 µg/L), and MW-7 (34 µg/L) (Figure 3). All other BTEX constituent results are presented in Table 2. TPH as gasoline, BTEX and MTBE were not detected in the trip blank.

### Discussion and Compliance with Containment Zone Approach

Benzene was not detected at concentrations exceeding the compliance concentration of 71 µg/L in the shallow groundwater sample collected from designated CZ-concept Guard Well MW-7 (34 µg/L). Since the benzene concentration detected in Guard Well MW-7 was below the compliance level during the previous quarterly sampling event (1st quarter 1999), downgradient well MW-8 was not sampled during the current second quarter sampling event. **Sampling of well MW-8 will be suspended.** If any future quarterly sampling event detects benzene concentrations in excess of the compliance level in Guard Well MW-7, downgradient well MW-8 will again be sampled during the next quarterly event following the out of compliance detection.

Increases in TPH as gasoline concentrations were detected in the groundwater samples collected from wells MW-1 (from 95 µg/L to 960 µg/L), MW-2 (from not detected [ND] to 81 µg/L), and MW-4 (from ND to 210 µg/L). Decreases were detected in the groundwater samples collected from well MW-7 (from 820 µg/L to 690 µg/L). TPH as gasoline was ND in well MW-5.

Increases in TPH as diesel concentrations were detected in the samples collected from wells MW-1 (from 62,00 µg/L to 82,000 µg/L), MW-2 (from 1,200 µg/L to 1,900 µg/L), MW-5 (from 780 µg/L to 800 µg/L), and MW-7 (from 170,000 µg/L to 1,300,000 µg/L). Decreases were detected in the groundwater samples collected from well MW-4 (from 2,900 µg/L to 2,500 µg/L).

Increases in benzene concentrations were detected in the samples collected from wells MW-1 (from 8.0 µg/L to 23 µg/L) and MW-4 (from ND to 0.70 µg/L). Decreases in benzene concentrations were detected in the groundwater samples collected from well MW-7 (from 57 µg/L to 34 µg/L). Benzene was ND in wells MW-2, and MW-5.

Varying concentrations of petroleum hydrocarbons continue to be detected, but at overall decreasing concentrations in wells MW-1, MW-4, and MW-7, all of which are located immediately downgradient from the former UST excavation. These decreases in the concentrations of petroleum hydrocarbons may indicate that the mass of petroleum hydrocarbons present is being reduced by the additional vacuum-enhanced purging. The reductions could also indicate increased biodegradation

activity taking place in the vicinity of these wells as a result of the addition of the ORC™ socks in Observation Wells OW-1 and OW-2 which are both located upgradient from wells MW-1, MW-4, and MW-7.

At the request of Penske, additional groundwater purging using the vacuum-enhanced purging method will be continued during future quarterly events. The additional purging will help to remove additional mass of petroleum hydrocarbons from the groundwater downgradient from the former tank excavation which will aid in the remediation of the groundwater.

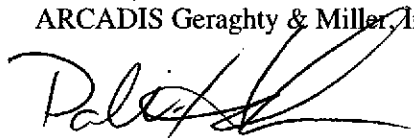
#### **Additional Groundwater Biodegradation Monitoring Results**

The results of this additional sampling and monitoring of biodegradation parameters appears to indicate that active biodegradation is occurring beneath the facility. However, based on the low dissolved oxygen and redox results, the biodegradation of the petroleum hydrocarbons in the area of the former UST excavation, and Monitoring Wells MW-1, MW-4 and MW-7 is limited by the low level of available alternative electron acceptors, and the general anaerobic conditions.

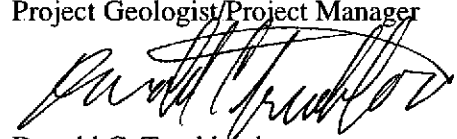
**ARCADIS GERAGHTY & MILLER**

ARCADIS 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.

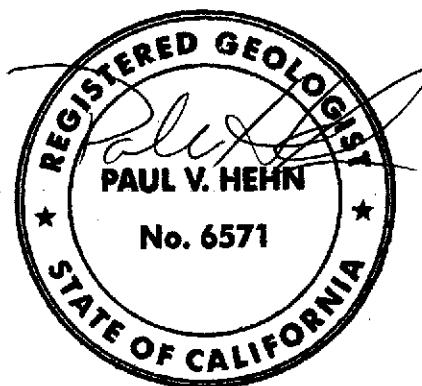
Sincerely,  
ARCADIS Geraghty & Miller, Inc.



Paul V. Hehn, R.G.  
Project Geologist/Project Manager



Donald C. Trueblood  
Regional 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 - Second Quarter 1999                        |
| Figure 3     | Benzene Concentrations - Second Quarter 1999                              |
| Figure 4     | Biodegradation Parameter Results - Second Quarter 1999                    |
| Attachment 1 | Copies of Certified Laboratory Reports and Chain-of-Custody Documentation |

## References

Alameda County Health Care Services Agency. December 6, 1996. Letter to Penske Truck Leasing Co. on Former Penske Truck Leasing Facility, 725 Julie Ann Way, Oakland, CA 94621.

———. December 9, 1997. Letter to Penske Truck Leasing Co. on Former Penske Truck Leasing Facility, 725 Julie Ann Way, Oakland, CA 94621.

———. May 20, 1998. Letter to Penske Truck Leasing Co. on Former Penske Truck Leasing Facility, 725 Julie Ann Way, Oakland, CA 94621.

———. June 25, 1998. Letter to Penske Truck Leasing Co. on Former Penske Truck Leasing Facility, 725 Julie Ann Way, Oakland, CA 94621.

———. December 28, 1998. Letter to Penske Truck Leasing Co. on Former Penske Truck Leasing Facility, 725 Julie Ann Way, Oakland, CA 94621.

———. February 22, 1999. Letter to Penske Truck Leasing Co. on Former Penske Truck Leasing Facility, 725 Julie Ann Way, Oakland, CA 94621.

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.

## ARCADIS GERAGHTY &amp; MILLER

**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				Casing Diameter (inches)	
								pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)		Redox (mv)
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 (e)	-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			
	28-Aug-96	6.17		-0.74	33.85	71.96	>72	7	85.5	4,820			
	21-Nov-96	6.09		-0.66	33.92	72.43	>73	6.5	77.8	7,890			
	20-Feb-97	5.41		0.02	33.94	74.17	>75	6.0	66.3	1,900			
	28-May-97	5.98		-0.55	NM	72.69 (f)	>73	8.0	77	9,000			
	19-Sep-97	6.45		-1.02	33.80	71.12	>72	7.4	71.3	5,500			
	17-Nov-97	6.14		-0.71	34.03	72.51	>73	7.12	75	6,690			
	27-Feb-98	4.83		0.60	33.97	75.76	>76	6.80	65	6,680			
	27-May-98	6.42		-0.99	34.00	71.60	72	6.79	62.42	7,990			
	1-Oct-98	6.49		-1.06	34.00	71.52	>72	8.01	65.7	5,220			
	22-Dec-98	6.35		-0.92	34.00	71.89	>72	6.82	63.4	5,860	NM	NM	
2-Mar-99	5.05		0.38	NM	71.89 (f)	>72	7.53	69.4	4,900	NM	NM		
3-Jun-99	5.98		-0.55	NM	72.85 (f)	>73	6.79	72.3	5,100	NM	NM		

## ARCADIS GERAGHTY &amp; MILLER

**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					Casing Diameter (Inches)
								pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)	Redox (mv)	
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			
	28-Aug-96	7.11		-0.91	29.42	58.00	>58	6	83.5	590			
	21-Nov-96	6.41		-0.21	29.43	59.85	>60	6.5	76.3	4,160			
	20-Feb-97	6.26		-0.06	29.54	60.52	>61	6.5	65.2	1,940			
	28-May-97	6.65		-0.45	NM	59.51 (f)	>60	7.0	73.6	5,540			
	19-Sep-97	6.90		-0.70	29.47	58.68	>59	6.9	69.7	12,630			
	17-Nov-97	6.75		-0.55	29.56	59.31	>60	8.08	75.7	710			
	27-Feb-98	5.31		0.89	29.45	62.76	>63	6.50	67.3	530			
	27-May-98	5.87		0.33	29.47	61.36	62	6.95	63.5	5,870			
1-Oct-98	6.95		-0.75	29.45	58.52	>59	7.96	66.7	1,100				
22-Dec-98	6.70		-0.50	29.23	58.58	>59	6.74	52.8	450	0.30	-242		
4-Mar-99	5.63		0.57	29.35	61.67	>62	7.00	61.6	870	NM	-212		
3-Jun-99	6.79		-0.59	29.20	58.26	>59	7.56	68.3	1,210	0.80	-222		

## ARCADIS GERAGHTY &amp; MILLER

**Table 1: Summary of Field Sampling, Depth-to-Water, and Casing Elevation Data**  
 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				Casing Diameter (Inches)
								pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)	
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 (e)	-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		
	28-Aug-96	7.15		-1.05	33.52	68.56	>69	8	79.2	2,930		
	21-Nov-96	6.64		-0.54	33.54	69.94	>70	6.5	77.0	7,500		
	20-Feb-97	6.36		-0.26	33.67	71.00	>72	6.5	68.7	4,180		
	28-May-97	6.62		-0.52	NM	70.33 (f)	>71	7.0	74.1	6,580		
	19-Sep-97	6.83		-0.73	33.55	69.48	>70	7.0	70.8	8,570		
	17-Nov-97	6.77		-0.67	33.59	69.73	>70	7.08	75.0	6,580		
	27-Feb-98	5.38		0.72	33.60	73.37	>74	7.0	65.9	7,530		
	27-May-98	6.05		0.05	33.63	71.72	72	8.28	64.8	6,880		
	1-Oct-98	6.95		-0.85	33.70	69.56	>70	7.71	67.1	6,380		
	22-Dec-98	6.73		-0.63	33.60	NS	NS	NS	NS	NS	0.80	118
	22-Dec-98	5.85		0.25	33.55	NS	NS	NS	NS	NS	NM	159
3-Jun-99	6.70		-0.60	33.60	NS	NS	NS	NS	NS	0.80	153	

## ARCADIS GERAGHTY &amp; MILLER

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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				Casing Diameter (inches)	
								pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)		Redox (mv)
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			
	28-Aug-96	6.04		-0.86	33.20	70.61	>71	7.4	83.9	2,600			
	21-Nov-96	7.90		-2.72	33.17	65.70	>66	6.5	75.9	8,940			
	20-Feb-97	5.29		-0.11	33.28	72.77	>73	6.5	66.1	2,110			
	28-May-97	5.66		-0.48	NM	71.81 (f)	>72	7.0	74	6,480			
	19-Sep-97	6.00		-0.82	33.31	71.00	>71	7.4	71	4,330			
	17-Nov-97	6.06		-0.88	33.35	70.95	>71	6.81	70	11,020			
	27-Feb-98	4.66		0.52	33.22	74.25	>75	7.30	65.9	15,720			
	27-May-98	5.98		-0.80	33.00	70.40	35 (d)	6.89	62.4	10,980			
	1-Oct-98	5.23		-0.05	33.26	72.88	>73	7.87	66.8	3,390			
	22-Dec-98	6.57		-1.39	33.52	70.07	>70	6.25	57.7	13,000	NM	NM	
22-Dec-98	4.13		1.05	NM	70.07 (f)	>71	7.64	64.7	8,700	NM	NM		
3-Jun-99	5.51		-0.33	33.26	72.82 (f)	>73	6.60	67.9	9,810	0.90	-168.5		



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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				Casing Diameter (Inches)	
								pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)		Redox (mv)
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			
	28-Aug-96	5.29		-0.58	31.34	67.73	>68	7.9	79.6	2,590			
	21-Nov-96	5.44		-0.73	31.33	67.31	>67	6.5	76.0	7,260			
	20-Feb-97	4.68		0.03	31.46	69.62	>70	6.5	60.7	1,990			
	28-May-97	5.21		-0.50	NM	68.25 (f)	>69	7.8	70.7	11,500			
	19-Sep-97	5.43		-0.72	31.46	67.68	>68	7.1	67.9	3,920			
	17-Nov-97	5.28		-0.57	31.44	68.02	>69	7.0	73.0	5,180			
	27-Feb-98	4.10		0.61	31.49	71.21	>72	6.8	62.5	1,650			
	27-May-98	5.40		-0.69	32.00	70.40	70	6.89	64.2	4,830			
	1-Oct-98	5.42		-0.71	31.45	67.68	>68	7.65	65.6	4,290			
	22-Dec-98	5.40		-0.69	31.45	67.73	>68	7.21	57.7	3,920	0.30	67.3	
	4-Mar-99	4.50		0.21	31.50	70.20	>71	7.52	56.3	3,130	NM	213.0	
	3-Jun-99	5.20		-0.49	31.28	67.80	>68	7.27	69.4	4,310	0.90	-70.7	

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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			Casing Diameter (Inches)	
								pH	Temp. (°F)	SC (µS/cm)		DO (mg/L)
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		
	28-Aug-96	6.15		-0.78	24.67	NS	NS	NS	NS	NS		
	21-Nov-96	5.71		-0.34	24.65	NS	NS	NS	NS	NS		
	20-Feb-97	5.38		-0.01	24.79	NS	NS	NS	NS	NS		
	28-May-97	5.93		-0.56	NM	NS	NS	NS	NS	NS		
	19-Sep-97	6.15		-0.78	24.76	NS	NS	NS	NS	NS		
	17-Nov-97	6.06		-0.69	27.71	NS	NS	NS	NS	NS		
	27-Feb-98	4.74		0.63	24.64	NS	NS	NS	NS	NS		
	27-May-98	5.40		-0.03	29	NS	NS	NS	NS	NS		
	1-Oct-98	6.37		-1.00	24.72	NS	NS	NS	NS	NS		
	22-Dec-98	6.06		-0.69	24.70	NS	NS	NS	NS	NS	5.4	202
	4-Mar-99	4.99		0.38	24.65	NS	NS	NS	NS	NS	NM	346
	3-Jun-99	5.90		-0.53	24.65	NS	NS	NS	NS	NS	4.4	264

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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				Casing Diameter (Inches)	
								pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)		Redox (mv)
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			
	28-Aug-96	6.20		-0.82	28.30	57.46	>58	7.4	76.4	3,980			
	21-Nov-96	6.12		-0.74	28.30	57.66	>58	6.5	75.2	8,400			
	20-Feb-97	5.70		-0.32	28.46	59.17	>60	6.5	63.9	4,410			
	28-May-97	5.46		-0.08	NM	59.80 (f)	>60	7.5	71.3	9,790			
	19-Sep-97	5.91		-0.53	28.49	58.72	>59	7.3	71.4	4,910			
	17-Nov-97	5.59		-0.21	23.39	46.28	>47	6.97	71.0	6,410			
	27-Feb-98	4.68		0.70	23.40	74.63	>75	6.80	64.0	7,070			
	27-May-98	5.17		0.21	30.00	66.00	65	6.89	63.0	4,980			
	1-Oct-98	5.80		-0.42	30.00	62.92	>63	7.58	64.1	4,000			
	22-Dec-98	5.78		-0.40	30.00	62.97	>63	7.07	64.2	4,210	NM	NM	
	4-Mar-99	4.68		0.70	NM	62.97 (f)	>63	7.42	67.3	3,810	NM	NM	
	3-Jun-99	6.37		-0.99	NM	61.43 (f)	>62	7.12	69.5	4,590	NM	NM	

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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					Casing Diameter (Inches)	
								pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)	Redox (mv)		
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				
	28-Aug-96	6.17		-0.73	25.52	NS	NS	NS	NS	NS				
	21-Nov-96	5.74		-0.30	25.45	51.24	>52	6.5	73.6	9,300				
	20-Feb-97	5.10		0.34	25.54	53.14	>54	6.5	61.5	4,950				
	28-May-97	5.68		-0.24	NM	51.63 (f)	>54	7.5	71.2	14,930				
	19-Sep-97	5.95		-0.51	25.41	50.60	>51	7.0	67.8	7,860				
	17-Nov-97	5.91		-0.47	25.59	51.17	>52	7.49	70.2	8,320				
	27-Feb-98	4.50		0.94	25.58	54.80	>55	7.00	63.8	6,310				
	27-May-98	6.10		-0.66	31.00	65.00	65	7.19	63.9	6,460				
	1-Oct-98	6.13		-0.69	25.50	50.36	>51	7.74	63.7	6,880				
	22-Dec-98	6.10		-0.66	31.00	NS	NS	NS	NS	NS	0.30	123		
	4-Mar-99	4.79		0.65	25.46	53.74	>54	7.29	70.4	6,110	NM	179		
	3-Jun-99	5.39		0.05	25.68	52.75	>53	7.01	60.5	5,530	0.90	-116.7		
OW-1	4-Mar-99	4.58	5.09	0.51	14.65	26.18	27.00	7.51	60.0	2,910	16.10	-88		4
OW-2	4-Mar-99	4.60	5.39	0.79	14.00	24.44	25.00	7.52	57.9	2,570	16.50	44		4

Notes appear on the following page.

## ARCADIS GERAGHTY &amp; MILLER

**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.	SC	DO	Redox	Diameter
		(feet)	(feet)	(feet)	(feet)	(gallons)	(gallons)		(°F)	(µS/cm)	(mg/L)	(mv)	(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 4th quarter 1998.											
SC		Specific Conductance											
(µS/cm)		Microsiemens per centimeter											
(mg/L)		milligrams per liter											
(mv)		millivolt											
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.

## ARCADIS GERAGHTY &amp; MILLER

**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)	Ethylbenzene (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (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
	28-Aug-96	11,000 (k)	56,000	110	ND(<50)	ND(<50)	ND(<50)		3,300
	21-Nov-96	65 (k)	1,500	3.3	0.51	0.59	0.84		3,400
	20-Feb-97	2,900 (k)	200,000	260	61	42	96		1,400
	28-May-97	2,100	28,000 (o)	230	42	55	110		3,100
	19-Sep-97	110,000	2,700,000	230	140	250	700	ND (<500)	3,200
	17-Nov-97	40,000 (r)	950,000 (r)	240 (r)	190 (r)	270 (r)	880 (r)	ND (<300) (r)	3,400
	27-Feb-98	380,000	1,200,000	50	50	200	800	ND (<500)	3,600
	29-May-98	13,000	280,000	110	13	66	390	ND (<50)	--
	1-Oct-98	1,300 (t)	63,000	43	1.2	15	84	ND (<10)	--
	22-Dec-98	2,000 (y,z)	79,000 (y,aa)	32 (y)	ND(<5.0) (y)	23 (y)	130 (y)	ND(<50) (y)	--
	4-Mar-99	95 (ad)	62,000 (ac,y,ae)	8.0	ND(<0.50)	1.0	2.8	ND(<5.0)	--
	3-Jun-99	960	82,000 (v)	23	12	0.77	39	ND(<5.0)	--

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

Well	Date	Total Dissolved							Solids (c) (mg/L)
		TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethylbenzene (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (b) (µg/L)	
MW-2	2-Oct-90	ND(<50)	80	0.4	ND(<0.3)	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)	ND(<0.3)	--
	25-Mar-91	ND(<50)	ND(<50)	ND(<0.3)	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)	ND(<0.3)	--
	5-Aug-91	ND(<50)	ND(<50)	ND(<0.3)	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)	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		--
	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
	28-Aug-96	ND(<50)	680	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)		410
	21-Nov-96	ND(<50)	1,800 (n)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)		720
	20-Feb-97	ND(<50)	1,000 (n)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)		1,400
	28-May-97	ND(<50)	3,700 (n) (o)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)		830
	19-Sep-97	ND(<50)	4,100	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<2)	ND(<5)	1,200
	17-Nov-97	ND(<50)	1,300	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<2)	ND(<5)	340
	27-Feb-98	ND(<50)	340	ND(<0.5)	0.9	ND(<0.5)	ND(<2)	ND(<5)	210
	27-May-98	ND(<50)	1,300	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<2)	ND(<5)	--
	1-Oct-98	3,200 (t)	3,500 (v)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2)	ND(<10)	--
	22-Dec-98	67 (t)	1,200 (ab)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<1)	ND(<5)	--
	4-Mar-99	ND(<50)	1,200 (af,ag)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<1)	ND(<5)	--
	3-Jun-99	81 (aj)	1,900 (v)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<1)	ND(<5)	--

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Well	Date	TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethylbenzene (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (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
	28-Aug-96	ND(<50)	1,200	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)		2,200
	21-Nov-96	ND(<50)	ND(<50)	0.82	ND(<0.5)	ND(<0.5)	ND(<0.5)		3,500
	20-Feb-97	ND(<50)	140 (n)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)		2,900
	28-May-97	ND(<50)	240 (n) (o)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)		1,900
	19-Sep-97	ND(<50)	ND(<50)	0.7	ND(<0.5)	ND(<0.5)	ND(<2)	ND(<5)	3,300
	17-Nov-97	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<2)	ND(<5)	3,400
	27-Feb-98	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<2)	ND(<5)	3,800
	27-May-98	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<2)	ND(<5)	--
	1-Oct-98	ND(<50)	56 (w)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<1)	ND(<5)	--
	22-Dec-98	NS	NS	NS	NS	NS	NS	NS	--
	4-Mar-99	NS	NS	NS	NS	NS	NS	NS	--
	3-Jun-99	NS	NS	NS	NS	NS	NS	NS	--



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Well	Date	Total Dissolved							Solids (c) (mg/L)
		TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethylbenzene (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (b) (µg/L)	
MW-4	4-Feb-93	58 (f)	450	ND(<0.3)	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)	ND(<0.3)	--
	6-Aug-93	95	ND(<50)	68	0.9	1.1	ND(<0.9)	ND(<0.3)	5,800
	28-Oct-93	160	600	46	0.7	1.6	1.2	ND(<0.3)	5,200
	1-Feb-94	320	160	290	0.6	6.7	3.2	ND(<0.3)	6,200
	12-Sep-94	390	95	120	3.9	14	14	ND(<0.3)	6,000
	23-Nov-94	100	1,800	9.9	0.7	1.6	3.8	ND(<0.3)	5,600
	21-Feb-95	91	680	23	ND(<0.5)	1.0	ND(<0.5)	ND(<0.3)	7,100
	23-May-95	ND(<50)	270	5.3	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.3)	8,300
	16-Aug-95	ND(<50)	610	4.1	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.3)	7,100
	21-Nov-95	ND(<50)	280	1.0	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.3)	9,800
	13-Feb-96	980 (j)	7,500	570	ND(<0.5)	9.2	13	ND(<0.3)	3,600
	13-May-96	150 (k)	1,200	45	ND(<1.0)	ND(<1.0)	1.5	ND(<0.3)	7,900
	28-Aug-96	70,000 (k)	1,300,000	340	ND(<200)	ND(<200)	ND(<200)	ND(<0.3)	1,800
	21-Nov-96	52,000 (i)	40,000	130	ND(<100)	ND(<100)	ND(<100)	ND(<0.3)	5,400
	20-Feb-97	64,000 (i)	470,000	ND(<100)	ND(<100)	ND(<100)	ND(<100)	ND(<0.3)	1,500
	28-May-97	11,000 (i)	1,000,000 (o)	ND(<100)	ND(<100)	ND(<100)	ND(<100)	ND(<0.3)	1,700
	19-Sep-97	37,000	2,600,000	260	ND(<30)	ND(<30)	ND(<100)	ND(<300)	2,700
	17-Nov-97	4,400 (r)	57,000 (r)	25 (r)	ND(<5) (r)	ND(<5) (r)	ND(<20) (r)	ND(<50) (r)	7,900
	27-Feb-98	580	9,300	2.7	0.8	0.80	3	ND(<50)	9,700
	29-May-98	3,900	11,000	1.4	0.6	ND(<0.5)	ND(<2)	ND(<5)	--
	1-Oct-98	2,400 (u)	670,000	5.7	ND(<2.0)	ND(<10)	4.6	ND(<10)	--
	22-Dec-98	ND(<250) (y)	3,700 (y,ac)	ND(<2.5) (y)	ND(<2.5) (y)	ND(<2.5) (y)	ND(<5) (y)	ND(<25) (y)	--
	4-Mar-99	ND(<50)	2,900 (ah,ag,y)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<1.0)	ND(<5.0)	--
	3-Jun-99	210	2,500 (ak)	0.70	ND(<0.50)	0.56	ND(<1.0)	ND(<5.0)	--

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		TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethylbenzene (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (b) (µg/L)	
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
	28-Aug-96	ND(<50)	1,000	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)		2,000
	21-Nov-96	ND(<50)	610	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<0.5)		2,700
	20-Feb-97	ND(<50)	1,100 (n)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)		1,300
	28-May-97	60 (i)	560 (p) (o)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<0.50)		2,500
	19-Sep-97	70	1,000	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<2)	ND(<5)	2,400
	17-Nov-97	70	1,100	0.6	0.7	0.5	ND(<2)	5	2,800
	27-Feb-98	ND(<50)	ND(<50)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<2)	5	330
	29-May-98	ND(<50)	770	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<2)	ND(<5)	--
	1-Oct-98	ND(<50)	630	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<1.0)	ND(<5.0)	--
	22-Dec-98	ND(<50)	890 (ab)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<1.0)	ND(<5.0)	--
4-Mar-99	ND(<50)	780 (ab)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<1.0)	ND(<5.0)	--	
3-Jun-99	ND(<50)	800 (v)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<1.0)	ND(<5.0)	--	

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		TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethylbenzene (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (b) (µg/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
	28-Aug-96	NS	NS	NS	NS	NS	NS		NS
	21-Nov-96	NS	NS	NS	NS	NS	NS		NS
	20-Feb-97	NS	NS	NS	NS	NS	NS		NS
	28-May-97	NS	NS	NS	NS	NS	NS		NS
	19-Sep-97	NS	NS	NS	NS	NS	NS	NS	NS
	17-Nov-97	NS	NS	NS	NS	NS	NS	NS	NS
	27-Feb-98	NS	NS	NS	NS	NS	NS	NS	NS
	29-May-98	NS	NS	NS	NS	NS	NS	NS	--
	1-Oct-98	NS	NS	NS	NS	NS	NS	NS	--
	22-Dec-98	NS	NS	NS	NS	NS	NS	NS	--
	4-Mar-99	NS	NS	NS	NS	NS	NS	NS	--
	3-Jun-99	NS	NS	NS	NS	NS	NS	NS	--

## ARCADIS GERAGHTY &amp; MILLER

**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)	Ethylbenzene (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (b) (µg/L)	Total Dissolved
									Solids (c) (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
	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
	28-Aug-96	59,000 (k)	640,000	ND(<200)	ND(<200)	ND(<200)	600		3,100
	21-Nov-96	3,800 (k)	780,000	130	93	33	64		3,400
	20-Feb-97	15,000 (i)	1,500,000	81	51	ND(<50)	ND(<50)		3,300
	28-May-97	390,000 (i)	440,000 (o)	ND(<1000)	ND(<1000)	ND(<1000)	ND(<1000)		3,500
	19-Sep-97	3,600	910,000	110	64	37	ND(<100)		3,200
	17-Nov-97	15,000 (r)	18,000,000 (r)	110 (r)	41 (r)	12 (r)	110 (r)	ND(<300)	3,300
	27-Feb-98	45,000	290,000	80	60	ND(<50)	ND(<200)	ND(<500)	3,300
	29-May-98	140	1,600	2.3	0.9	0.9	3	ND(<5)	--
	1-Oct-98	710 (u)	89,000	39	2.4	11	31	ND(<10)	--
	22-Dec-98	3,900 (z)	240,000 (ac)	51	ND(<25)	ND(<25)	ND(<50)	ND(<250)	--
	4-Mar-99	820 (u,ag)	170,000(ah,ae,y)	57 (y)	ND(<50)	ND(<50)	ND(<50)	ND(<500)	--
	3-Jun-99	690 (am)	1,300,000 (al)	34	6.4	1.7	15.8	ND(<5)	--

## ARCADIS GERAGHTY &amp; MILLER

**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)	Ethylbenzene (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
MW-8	12-Sep-94	170	850	2.7	0.5	ND(<0.5)	2		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
	28-Aug-96	NS	NS	NS	NS	NS	NS		NS
	21-Nov-96	400 (k)	2,200	4.6	37	4.6	68		5,100
	20-Feb-97	340 (k)	2,500	2.1	53	7.1	94		3,800
	28-May-97	480 (k)	200 (q) (o)	2.5	12	ND(<2.5)	76		4,100
	19-Sep-97	1,000	7,000	0.8	5.0	0.5	130	ND(<5)	5,000
	17-Nov-97	250	520	1.4	2.1	0.7	3	ND(<5)	4,600
	27-Feb-98	ND(<50)	150	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<2)	ND(<5)	3,500
	29-May-98	ND(<50)	70	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<2)	ND(<5)	--
	1-Oct-98	ND(<50)	440 (x)	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<1)	ND(<5)	--
	22-Dec-98	NS	NS	NS	NS	NS	NS	NS	--
	4-Mar-99	NS	NS	NS	NS	NS	NS	NS	--
	3-Jun-99	NS	NS	NS	NS	NS	NS	NS	--
OW-1	4-Mar-99	--	31,000 (ac,ae,y)	--	--	--	--	--	--
OW-2	4-Mar-99	--	6,400 (ai,ae,y)	--	--	--	--	--	--
TB-LB	3-Jun-99	ND(<50)	NA	ND(<0.5)	ND(<0.5)	ND(<0.5)	ND(<1)	ND(<5.0)	NA

Notes appear on the following page.

## ARCADIS GERAGHTY &amp; MILLER

**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)	Ethylbenzene (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
	(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 hydrocarbons >C8.							
	(j)	Laboratory reports that chromatogram indicates unidentified hydrocarbons >C9.							
	(k)	Laboratory reports that chromatogram indicates gasoline and unidentified hydrocarbons >C8.							
	(l)	Laboratory reports that chromatogram indicates diesel and unidentified hydrocarbons >C16.							
	(m)	Laboratory reports that chromatogram indicates diesel and discrete peaks.							
	(n)	Laboratory reports that chromatogram indicates diesel and unidentified hydrocarbons >C20.							
	(o)	Laboratory reports that the laboratory control sample failed for this batch, as well as when it was initially analyzed on 6/3/97. All results should be considered as estimated values. No additional sample was available for re-extraction.							
	(p)	Laboratory reports that chromatogram indicates diesel and unidentified hydrocarbons >C24.							
	(q)	Laboratory reports that chromatogram indicates diesel and unidentified hydrocarbons <C15.							
	(r)	Laboratory reports reporting limits for diesel and gas/BTEX elevated due to high levels of target compound. Samples run at dilution.							
	(s)	Laboratory reports analysis was performed outside of hold time due to improper preservation. Results are estimated.							
	(t)	Laboratory reports the peak pattern present in this sample represents an unknown mixture atypical of gasoline in the range of n-C09 to greater than n-C12. Quantitation is based on a gasoline reference in the range of n-C07 to n-C12 only.							
	(u)	Laboratory reports the peak pattern present in this sample represents an unknown mixture atypical of gasoline in the range of n-C07 to greater than n-C12. Quantitation is based on a gasoline reference in the range of n-C07 to n-C12 only.							
	(v)	Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C08 to n-C40. Quantitation is based on a diesel reference between n-C10 and n-C24 only.							
	(w)	Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C12 to n-C28. Quantitation is based on a diesel reference between n-C10 and n-C24 only.							
	(x)	Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C10 to n-C28. Quantitation is based on a diesel reference between n-C10 and n-C24 only.							

Notes continue on the following page.

## ARCADIS GERAGHTY &amp; MILLER

**Table 2: Summary of Groundwater Analytical Results - Monthly and Quarterly Sampling**  
 Former Penske Truck Leasing Facility,  
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Well	Date	TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethylbenzene (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
(y)	Laboratory reports reporting limit(s) raised due to high level of analyte present in sample.								
(z)	Laboratory reports the peak pattern present in this sample represents an unknown mixture atypical of gasoline in the range of n-C10 to greater than n-C12. Quantitation is based on a gasoline reference in the range of n-C07 to n-C12 only.								
(aa)	Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C09 to n-C36. Quantitation is based on a diesel reference between n-C10 and n-C24 only.								
(ab)	Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C10 to n-C40. Quantitation is based on a diesel reference between n-C10 and n-C24 only.								
(ac)	Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C10 to n-C26. Quantitation is based on a diesel reference between n-C10 and n-C24 only.								
(ad)	Laboratory reports the peak pattern present in this sample represents an unknown mixture atypical of gasoline in the range of n-C07 to greater than n-C12 and may contain weathered gasoline. Quantitation is based on a gasoline reference in the range of n-C07 to n-C12 only.								
(ae)	Laboratory reports spiked analyte not detected because of required sample dilution.								
(af)	Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C09 to n-C40. Quantitation is based on a diesel reference between n-C10 and n-C24 only.								
(ag)	Laboratory reports surrogate recovery outside of limits due to sample matrix interference.								
(ah)	Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C09 to n-C26. Quantitation is based on a diesel reference between n-C10 and n-C24 only.								
(ai)	Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C09 to n-C32. Quantitation is based on a diesel reference between n-C10 and n-C24 only.								
(aj)	Laboratory reports the peak pattern present in this sample represents an unknown mixture atypical of gasoline in the range of n-C08 to greater than n-C12. Quantitation is based on a gasoline reference in the range of n-C07 to n-C12 only.								
(ak)	Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C10 to n-C30. Quantitation is based on a diesel reference between n-C10 and n-C24 only.								
(al)	Laboratory reports the hydrocarbon pattern present in this sample represents an unknown mixture in the range of n-C08 to n-C26. Quantitation is based on a diesel reference between n-C10 and n-C24 only.								
(am)	Laboratory reports the gasoline pattern appears degraded.								
( )	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 prior to May 28, 1997 by Sequoia Analytical, Walnut Creek, California.

Analysis after May 28, 1997 by American Environmental Network (AEN), Pleasant Hill, California.

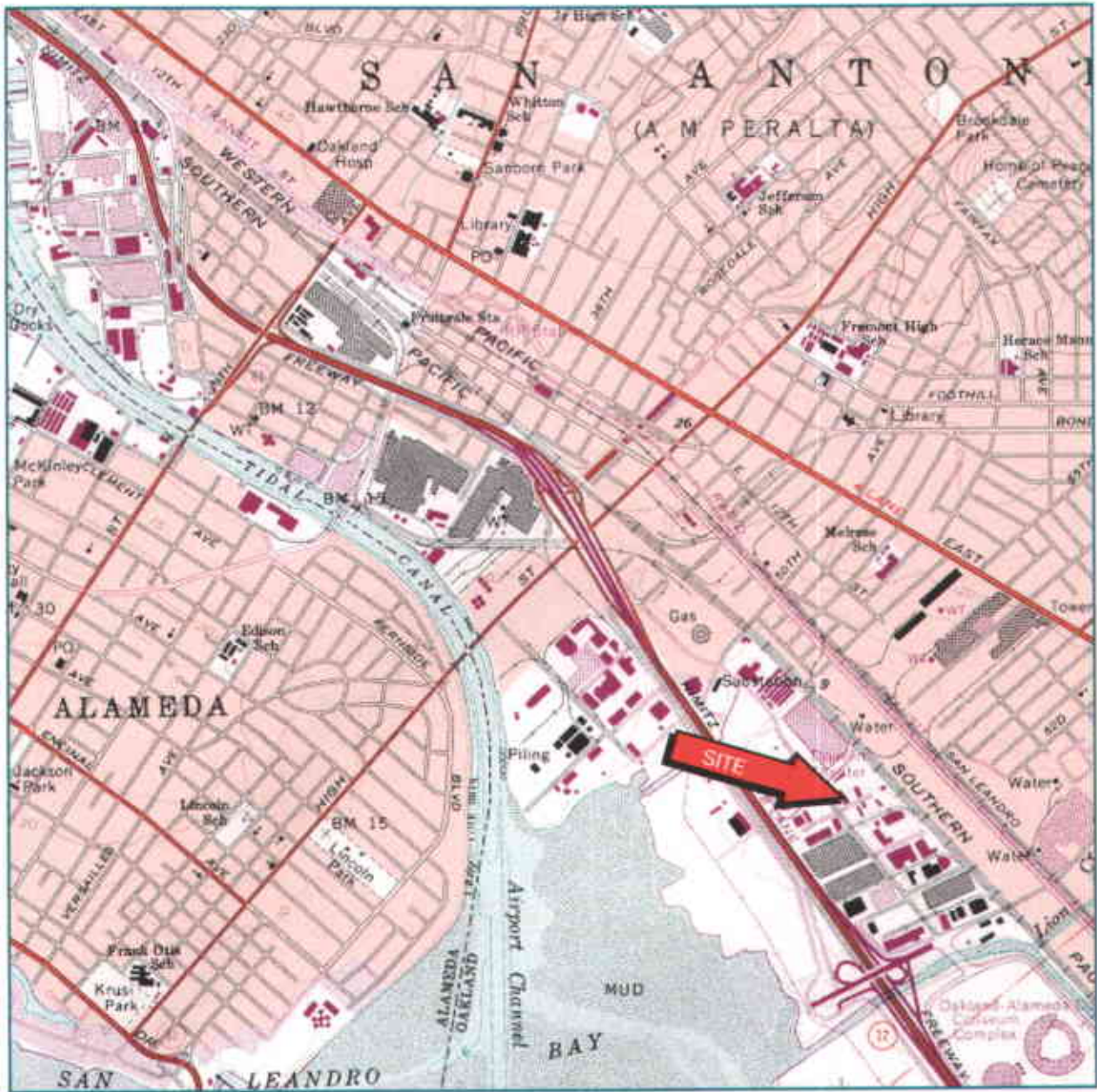
ARCADIS GERAGHTY &amp; MILLER

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

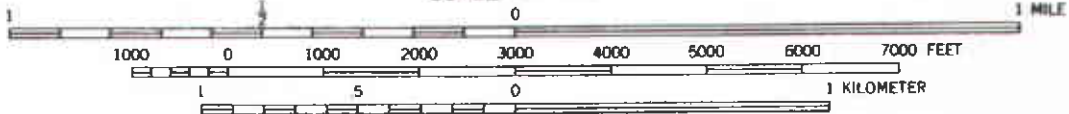
Well	Date	TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethylbenzene (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (b) (µg/L)	Total Dissolved Solids (c) (mg/L)
------	------	----------------------------	--------------------------	-----------------------	-----------------------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

Analysis beginning October 1, 1998 by Quanterra Incorporated, West Sacramento, California.





SCALE 1:24 000



CONTOUR INTERVAL 20 FEET



QUADRANGLE LOCATION



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.

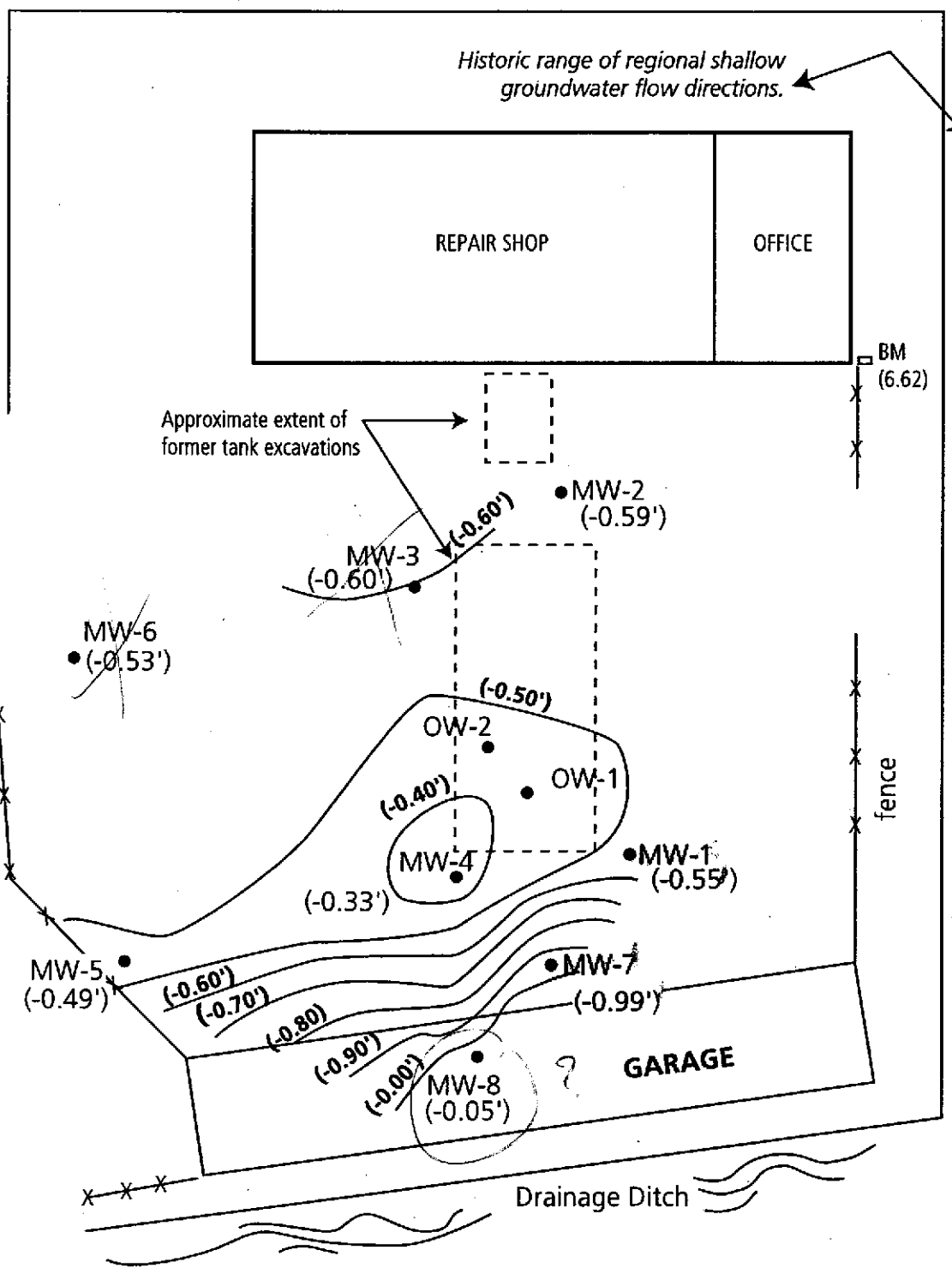
**ARCADIS**  
GERAGHTY & MILLER

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

RC000019.0000

FIGURE

1



Julie Ann Way

**EXPLANATION**

MW-1 ● Approximate location of existing groundwater monitoring wells.

□ BM Survey Bench Mark (based on City of Oakland datum which is 3 feet lower than Mean Sea Level).

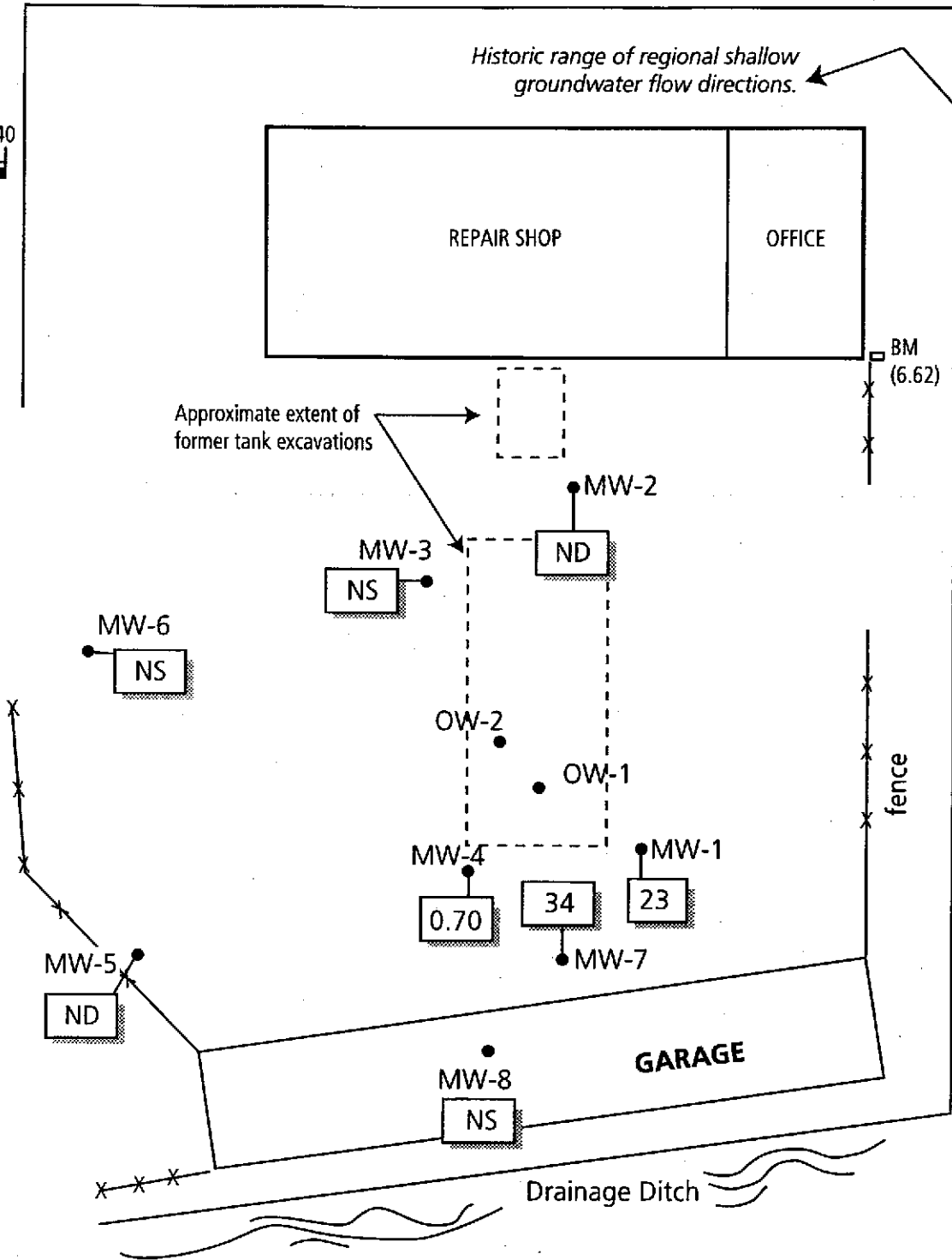
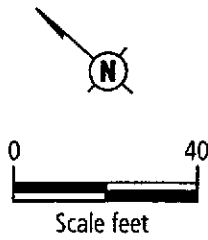
(-0.50') Groundwater elevation (feet) relative to benchmark measured June 3, 1999

(-0.30') Groundwater elevation contour (feet); dashed where inferred (contour interval equals 0.10 feet) queried where unknown



**SHALLOW GROUNDWATER CONTOURS**  
**Second Quarter 1999**  
 Former Penske Truck Leasing Co.  
 725 Julie Ann Way, Oakland California

RC000019.0010
FIGURE
<b>2</b>



**EXPLANATION**

- MW-1 Approximate location of existing groundwater monitoring wells.
- BM Survey Bench Mark (based on City of Oakland datum which is 3 feet lower than Mean Sea Level).
- ND Not Detected-below laboratory detection limits listed in Table 2

- 32 Benzene concentrations (in  $\mu\text{g/L}$ ) from groundwater samples collected June 3, 1999
- NS Well not sampled or monitored during this quarterly event.

**BENZENE CONCENTRATIONS**

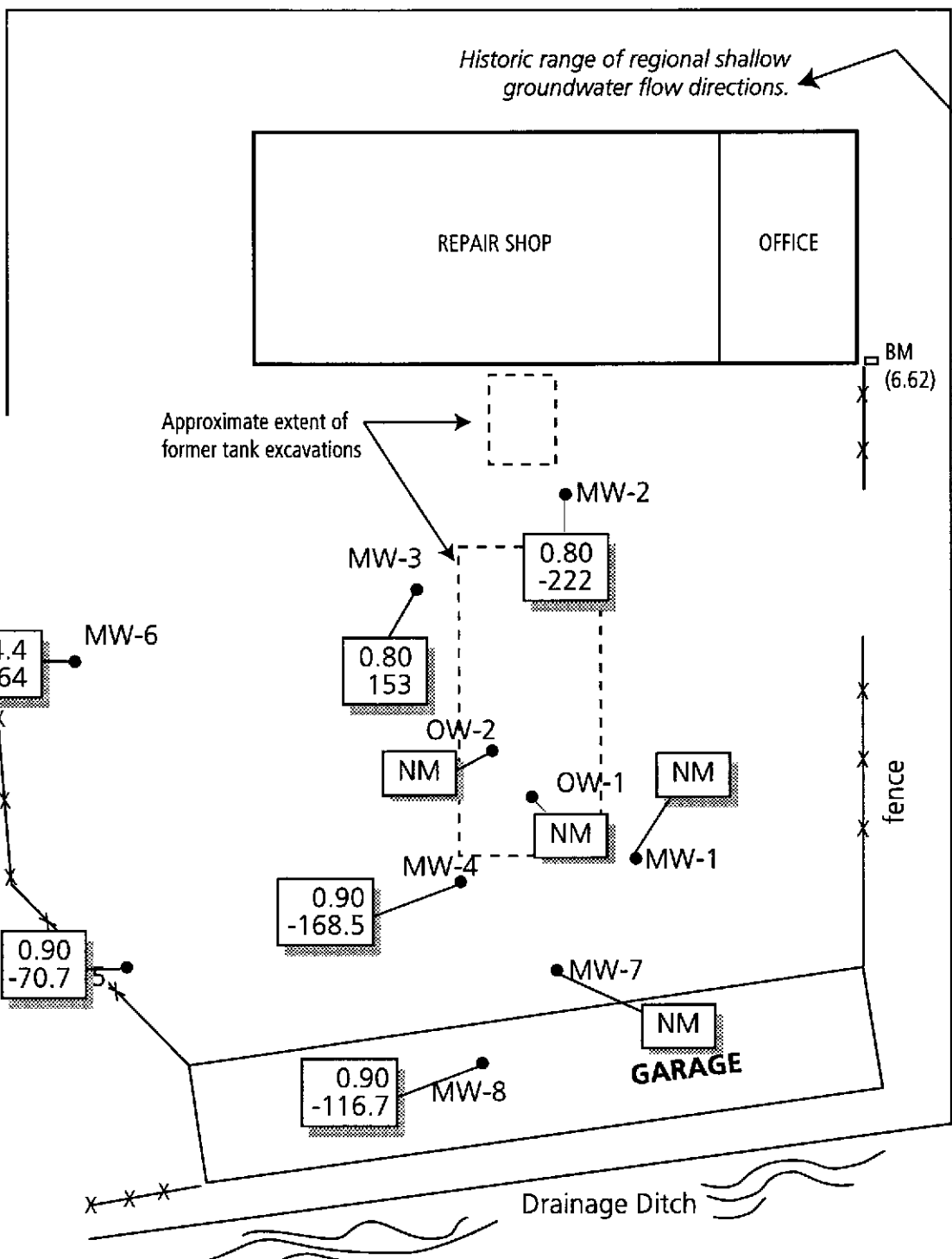
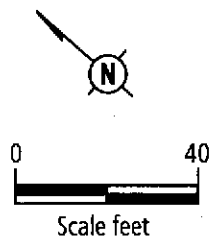
**Second Quarter 1999**

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

RC000019.0010

FIGURE

**3**



Julie Ann Way

**EXPLANATION**

MW-1 Approximate location of existing groundwater monitoring wells.

BM Survey Bench Mark (based on City of Oakland datum which is 3 feet lower than Mean Sea Level).

0.67 Dissolved Oxygen (DO) mg/L  
-212 Oxygen Reduction Potential (Redox) mw  
Measured June 3, 1999

NM Well not measured during this quarterly event



**BIODEGRADATION PARAMETER RESULTS**  
**Second Quarter 1999**  
 Former Penske Truck Leasing Co.  
 725 Julie Ann Way, Oakland California

RC000019.0010  
**FIGURE**  
**4**

**ATTACHMENT 1**

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



Quanterra Incorporated  
880 Riverside Parkway  
West Sacramento, California 95605

916 373-5600 Telephone  
916 372-1059 Fax

July 20, 1999

QUANTERRA INCORPORATED PROJECT NUMBER: G9F050163  
PO/CONTRACT: RC000019.0010

Paul Hehn  
ARCADIS Geraghty & Miller, Inc.  
1050 Marina Way South  
Richmond, California 94804

Dear Mr. Hehn,

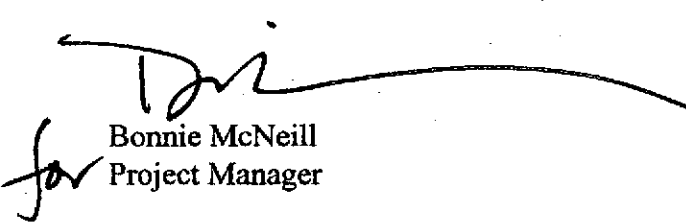
This report contains the analytical results for the six samples received under chain of custody by Quanterra Incorporated on June 4, 1999. These samples are associated with your Penske project.

The case narrative is an integral part of this report.

Preliminary results were provided via facsimile July 15, 1999.

If you have any questions, please feel free to call me at (916) 374-4414.

Sincerely,

  
Bonnie McNeill  
Project Manager



## TABLE OF CONTENTS

### QUANTERRA INCORPORATED PROJECT NUMBER G9F050163

Case Narrative

Quanterra's Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

Total Petroleum Hydrocarbons (Gasoline)/BTEX/MtBE – Method 8015M/8021

Sample(s): 1 – 6

Sample Data Report

Method Blank Reports

Laboratory QC Reports

Total Petroleum Hydrocarbons (Diesel) – Method 8015M

Sample(s): 1 – 6

Sample Data Report

Method Blank Reports

Laboratory QC Reports

**CASE NARRATIVE****QUANTERRA INCORPORATED PROJECT NUMBER G9F050163****General Comments**

Samples were received at 3 degrees C. A trip blank was received but not listed on the chain of custody form. The sample was logged and analyzed.

**Total Petroleum Hydrocarbons (Diesel) – Method 8015M**

Sample CWK2T-1-04 had an oil layer approximately  $\frac{3}{4}$  inch thick. The oil layer was removed and the remaining aqueous portion extracted and analyzed.

**Total Petroleum Hydrocarbons (Gasoline)/BTEX/MtBE – Method 8015M/8021**

The initial and continuing calibrations' percent difference (%D) for MtBE were below the 15% criteria on both channels. The average %D of all analytes were less than 15%. As no MtBE was present in the samples, no further corrective action was taken.

There were no other anomalies associated with this project.



**Quanterra - Western Region  
Quality Control Definitions**

Term	Definition
QC Batch	A set of up to 20 field samples plus associated laboratory QC samples that are similar in composition (matrix) and that are processed within the same time period with the same reagent and standard lots.
Duplicate Control Sample (DCS)	Consist of a pair of LCSs analyzed within the same QC batch to monitor precision and accuracy independent of sample matrix effects. This QC is performed only if required by client or when insufficient sample is available to perform MS/MSD.
Duplicate Sample (DU)	A second aliquot of an environmental sample, taken from the same sample container when possible, that is processed independently with the first sample aliquot. The results are used to assess the effect of the sample matrix on the precision of the analytical process. The precision estimated using this sample is not necessarily representative of the precision for other samples in the batch.
Laboratory Control Sample (LCS)	A volume of reagent water for aqueous samples or a contaminant-free solid matrix (Ottawa sand) for soil and sediment samples which is spiked with known amounts of representative target analytes and required surrogates. An LCS is carried through the entire analytical process and is used to monitor the accuracy of the analytical process independent of potential matrix effects.
Matrix Spike and Matrix Spike Duplicate (MS/MSD)	A field sample fortified with known quantities of target analytes that are also added to the LCS. Matrix spike duplicate is a second matrix spike sample. MSs/MSDs are carried through the entire analytical process and are used to determine sample matrix effect on accuracy of the measurement system. The accuracy and precision estimated using MS/MSD is only representative of the precision of the sample that was spiked.
Method Blank (MB)	A sample composed of all the reagents (in the same quantities) in reagent water carried through the entire analytical process. The method blank is used to monitor the level of contamination introduced during sample preparation steps.
Surrogate Spike	Organic constituents not expected to be detected in environmental media and are added to every sample and QC at a known concentration. Surrogates are used to determine the efficiency of the sample preparation and the analytical process.

Source: Quanterra<sup>®</sup> Quality Control Program, Policy QA-003, Rev. 0, 8/19/96.



# SAMPLE SUMMARY

G9F050163

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
CWK2N	001	MW-1	06/03/99	12:04
CWK2P	002	MW-2	06/03/99	13:02
CWK2Q	003	MW-4	06/03/99	12:15
CWK2R	004	MW-5	06/03/99	12:47
CWK2T	005	MW-7	06/03/99	12:32
CWK2V	006	TRIP BLANK	06/03/99	

**NOTE (S) :**

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



*Total Petroleum Hydrocarbons*  
*(Gasoline) / BTEX / MtBE – Method*  
*8015M/8021*



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-1

GC Volatiles

Lot-Sample #....: G9F050163-001    Work Order #....: CWK2N105    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/16/99    Analysis Date...: 06/16/99  
Prep Batch #....: 9177244  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	23	0.50	ug/L
Ethylbenzene	12	0.50	ug/L
Toluene	0.77	0.50	ug/L
m-Xylene & p-Xylene	26	1.0	ug/L
o-Xylene	13	0.50	ug/L
Methyl tert-butyl ether	ND	5.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a,a,a-Trifluorotoluene	89	(70 - 130)



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-1

GC Volatiles

Lot-Sample #....: G9F050163-001    Work Order #....: CWK2N103    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/16/99    Analysis Date...: 06/16/99  
Prep Batch #....: 9177243  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	960	50	ug/L
Unknown Hydrocarbon	ND	50	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	92	(70 - 130)

NOTE(S) :

The gasoline pattern appears degraded.



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-2

GC Volatiles

Lot-Sample #....: G9F050163-002    Work Order #....: CWK2P103    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/16/99    Analysis Date...: 06/16/99  
Prep Batch #....: 9177243  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	50	ug/L
Unknown Hydrocarbon	81	50	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	101	(70 - 130)

**NOTE (S) :**

The unknown from n-C08 to n-C12 is quantitated based on a gasoline reference of n-C07 to n-C12.



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-2

GC Volatiles

Lot-Sample #....: G9F050163-002    Work Order #....: CWK2P105    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/16/99    Analysis Date...: 06/16/99  
Prep Batch #....: 9177244  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L
o-Xylene	ND	0.50	ug/L
Methyl tert-butyl ether	ND	5.0	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
a,a,a-Trifluorotoluene	102	(70 - 130)	





ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-4

GC Volatiles

Lot-Sample #....: G9F050163-003    Work Order #....: CWK2Q103    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/17/99    Analysis Date...: 06/17/99  
Prep Batch #....: 9177243  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	50	ug/L
Unknown Hydrocarbon	210	50	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	100	(70 - 130)

**NOTE(S) :**

The unknown from n-C07 to n-C12 is quantitated based on a gasoline reference of n-C07 to n-C12.



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-4

GC Volatiles

Lot-Sample #....: G9F050163-003    Work Order #....: CWK2Q105    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/17/99    Analysis Date...: 06/17/99  
Prep Batch #....: 9177244  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	0.70	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Toluene	0.56	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L
o-Xylene	ND	0.50	ug/L
Methyl tert-butyl ether	ND	5.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a,a,a-Trifluorotoluene	96	(70 - 130)



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-5

GC Volatiles

Lot-Sample #....: G9F050163-004    Work Order #....: CWK2R103    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/17/99    Analysis Date...: 06/17/99  
Prep Batch #....: 9177243  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	50	ug/L
Unknown Hydrocarbon	ND	50	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
4-Bromofluorobenzene	97	(70 - 130)

**NOTE(S) :**

The unknown from n-C10 to n-C12 is quantitated based on a gasoline reference of n-C07 to n-C12.



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-5

GC Volatiles

Lot-Sample #....: G9F050163-004    Work Order #....: CWK2R105    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/17/99    Analysis Date...: 06/17/99  
Prep Batch #....: 9177244  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Benzene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L
o-Xylene	ND	0.50	ug/L
Methyl tert-butyl ether	ND	5.0	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a,a,a-Trifluorotoluene	90	(70 - 130)



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-7

GC Volatiles

Lot-Sample #....: G9F050163-005    Work Order #....: CWK2T103    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/17/99    Analysis Date...: 06/17/99  
Prep Batch #....: 9177243  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	690	50	ug/L
Unknown Hydrocarbon	ND	50	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	94	(70 - 130)

**NOTE(S) :**

The gasoline pattern appears degraded.



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-7

GC Volatiles

Lot-Sample #....: G9F050163-005    Work Order #....: CWK2T105    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/17/99    Analysis Date...: 06/17/99  
Prep Batch #....: 9177244  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	34	0.50	ug/L
Ethylbenzene	6.4	0.50	ug/L
Toluene	1.7	0.50	ug/L
m-Xylene & p-Xylene	10	1.0	ug/L
o-Xylene	5.8	0.50	ug/L
Methyl tert-butyl ether	ND	5.0	ug/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
a,a,a-Trifluorotoluene	84	(70 - 130)



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #....: G9F050163-006    Work Order #....: CWK2V103    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/17/99    Analysis Date...: 06/17/99  
Prep Batch #....: 9177243  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Gasoline)	ND	50	ug/L
Unknown Hydrocarbon	ND	50	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	97	(70 - 130)



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: TRIP BLANK

GC Volatiles

Lot-Sample #....: G9F050163-006    Work Order #....: CWK2V104    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/17/99    Analysis Date...: 06/17/99  
Prep Batch #....: 9177244  
Dilution Factor: 1    Method.....: DHS CA LUFT

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	0.50	ug/L
Ethylbenzene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
m-Xylene & p-Xylene	ND	1.0	ug/L
o-Xylene	ND	0.50	ug/L
Methyl tert-butyl ether	ND	5.0	ug/L
	<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>	
a,a,a-Trifluorotoluene	94	(70 - 130)	



# QC DATA ASSOCIATION SUMMARY

G9F050163

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	DHS CA LUFT		9177243	
	WATER	DHS CA LUFT		9177244	
002	WATER	DHS CA LUFT		9177243	
	WATER	DHS CA LUFT		9177244	
003	WATER	DHS CA LUFT		9177243	
	WATER	DHS CA LUFT		9177244	
004	WATER	DHS CA LUFT		9177243	
	WATER	DHS CA LUFT		9177244	
005	WATER	DHS CA LUFT		9177243	
	WATER	DHS CA LUFT		9177244	
006	WATER	DHS CA LUFT		9177243	
	WATER	DHS CA LUFT		9177244	



METHOD BLANK REPORT

GC Volatiles

Client Lot #....: G9F050163      Work Order #....: CXEQH101      Matrix.....: WATER  
MB Lot-Sample #: G9F260000-243  
Prep Date.....: 06/16/99  
Analysis Date...: 06/16/99      Prep Batch #....: 9177243  
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
TPH (as Gasoline)	ND	50	ug/L	DHS CA LUFT
Unknown Hydrocarbon	ND	50	ug/L	DHS CA LUFT

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
4-Bromofluorobenzene	99	(70 - 130)

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.



METHOD BLANK REPORT

GC Volatiles

Client Lot #....: G9F050163      Work Order #....: CXEQJ101      Matrix.....: WATER  
MB Lot-Sample #: G9F260000-244  
Prep Date.....: 06/16/99  
Analysis Date...: 06/16/99      Prep Batch #....: 9177244  
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
Benzene	ND	0.50	ug/L	DHS CA LUFT
Ethylbenzene	ND	0.50	ug/L	DHS CA LUFT
Toluene	ND	0.50	ug/L	DHS CA LUFT
m-Xylene & p-Xylene	ND	1.0	ug/L	DHS CA LUFT
o-Xylene	ND	0.50	ug/L	DHS CA LUFT
Methyl tert-butyl ether	ND	5.0	ug/L	DHS CA LUFT
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
a,a,a-Trifluorotoluene	96	(70 - 130)		

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.



LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: G9F050163      Work Order #....: CXEQH102-LCS      Matrix.....: WATER  
ICS Lot-Sample#: G9F260000-243      CXEQH103-LCSD  
Prep Date.....: 06/16/99      Analysis Date...: 06/16/99  
Prep Batch #....: 9177243  
Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>		<u>PERCENT</u>		<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECOVERY</u>	<u>RPD</u>	
TPH (as Gasoline)	1000	1090	ug/L	109		DHS CA LUFT
	1000	1100	ug/L	110	1.2	DHS CA LUFT
<u>SURROGATE</u>				<u>PERCENT</u>		<u>RECOVERY</u>
				<u>RECOVERY</u>		<u>LIMITS</u>
4-Bromofluorobenzene				107		(70 - 130)
				112		(70 - 130)

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters



LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: G9F050163      Work Order #....: CXEQJ102-LCS      Matrix.....: WATER  
LCS Lot-Sample#: G9F260000-244      CXEQJ103-LCSD  
Prep Date.....: 06/16/99      Analysis Date...: 06/16/99  
Prep Batch #....: 9177244  
Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10.0	9.28	ug/L	93		DHS CA LUFT
	10.0	9.15	ug/L	92	1.4	DHS CA LUFT
Ethylbenzene	10.0	9.59	ug/L	96		DHS CA LUFT
	10.0	9.49	ug/L	95	0.97	DHS CA LUFT
Methyl tert-butyl ether	10.0	8.20	ug/L	82		DHS CA LUFT
	10.0	7.91	ug/L	79	3.5	DHS CA LUFT
Toluene	10.0	9.30	ug/L	93		DHS CA LUFT
	10.0	9.21	ug/L	92	0.93	DHS CA LUFT
m-Xylene & p-Xylene	20.0	19.1	ug/L	96		DHS CA LUFT
	20.0	18.9	ug/L	94	1.3	DHS CA LUFT
o-Xylene	10.0	9.25	ug/L	92		DHS CA LUFT
	10.0	9.10	ug/L	91	1.6	DHS CA LUFT

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
a,a,a-Trifluorotoluene	97	(70 - 130)
	95	(70 - 130)

**NOTE(S) :**  
Calculations are performed before rounding to avoid round-off errors in calculated results.  
Bold print denotes control parameters



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: G9F050163      Work Order #....: CXEQH102-LCS      Matrix.....: WATER  
LCS Lot-Sample#: G9F260000-243      CXEQH103-LCSD  
Prep Date.....: 06/16/99      Analysis Date...: 06/16/99  
Prep Batch #....: 9177243  
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
TPH (as Gasoline)	109	(70 - 130)			DHS CA LOFT
	110	(70 - 130)	1.2	(0-35)	DHS CA LOFT

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
4-Bromofluorobenzene	107	(70 - 130)
	112	(70 - 130)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.  
Bold print denotes control parameters



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: G9F050163      Work Order #....: CXEQJ102-LCS      Matrix.....: WATER  
LCS Lot-Sample#: G9F260000-244      CXEQJ103-LCSD  
Prep Date.....: 06/16/99      Analysis Date...: 06/16/99  
Prep Batch #....: 9177244  
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	93	(70 - 130)			DHS CA LUFT
	92	(70 - 130)	1.4	(0-35)	DHS CA LUFT
Ethylbenzene	96	(70 - 130)			DHS CA LUFT
	95	(70 - 130)	0.97	(0-35)	DHS CA LUFT
Methyl tert-butyl ether	82	(70 - 130)			DHS CA LUFT
	79	(70 - 130)	3.5	(0-35)	DHS CA LUFT
Toluene	93	(70 - 130)			DHS CA LUFT
	92	(70 - 130)	0.93	(0-35)	DHS CA LUFT
m-Xylene & p-Xylene	96	(70 - 130)			DHS CA LUFT
	94	(70 - 130)	1.3	(0-35)	DHS CA LUFT
o-Xylene	92	(70 - 130)			DHS CA LUFT
	91	(70 - 130)	1.6	(0-35)	DHS CA LUFT

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a, a, a-Trifluorotoluene	97	(70 - 130)
	95	(70 - 130)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

*Total Petroleum Hydrocarbons*  
*(Diesel) – Method 8015M*





ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-1

GC Semivolatiles

Lot-Sample #....: G9F050163-001    Work Order #....: CWK2N104    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/09/99    Analysis Date...: 06/25/99  
Prep Batch #....: 9160337  
Dilution Factor: 40    Method.....: SW846 8015 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	ND	2000	ug/L
Unknown Hydrocarbon	82000	2000	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	0.0 SRD	(66 - 136)

**NOTE(S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
The unknown from n-C08 to n-C40 was quantitated based a diesel reference from n-C10 to n-C24.



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-2

GC Semivolatiles

Lot-Sample #....: G9F050163-002    Work Order #....: CWK2P104    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/09/99    Analysis Date...: 06/25/99  
Prep Batch #....: 9160337  
Dilution Factor: 4    Method.....: SW846 8015 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	ND	200	ug/L
Unknown Hydrocarbon	1900	200	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	138 *	(66 - 136)

**NOTE (S) :**

- \* Surrogate recovery is outside stated control limits.
- The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.  
The unknown from n-C08 to n-C40 was quantitated based on a diesel reference from n-C10 to n-C24.



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-4

GC Semivolatiles

Lot-Sample #: G9F050163-003    Work Order #: CWK2Q104    Matrix: WATER  
Date Sampled: 06/03/99    Date Received: 06/04/99  
Prep Date: 06/09/99    Analysis Date: 06/25/99  
Prep Batch #: 9160337  
Dilution Factor: 4    Method: SW846 8015 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	ND	200	ug/L
Unknown Hydrocarbon	2500	200	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	139 *	(66 - 136)

**NOTE (S) :**

\* Surrogate recovery is outside stated control limits.  
The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.  
The unknown from n-C08 to n-C30 was quantitated based on a diesel reference from n-C10 to n-C24.



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-5

GC Semivolatiles

Lot-Sample #....: G9F050163-004    Work Order #....: CWK2R104    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/09/99    Analysis Date...: 06/25/99  
Prep Batch #....: 9160337  
Dilution Factor: 1    Method.....: SW846 8015 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	ND	50	ug/L
Unknown Hydrocarbon	800	50	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	120	(66 - 136)

**NOTE(S) :**

The unknowns from n-C08 to n-C40 was quantitated based on a diesel reference from n-C10 to n-C24.



ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-7

GC Semivolatiles

Lot-Sample #....: G9F050163-005    Work Order #....: CWK2T104    Matrix.....: WATER  
Date Sampled....: 06/03/99    Date Received...: 06/04/99  
Prep Date.....: 06/09/99    Analysis Date...: 06/25/99  
Prep Batch #....: 9160337  
Dilution Factor: 600    Method.....: SW846 8015 MOD

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
TPH (as Diesel)	ND	30000	ug/L
Unknown Hydrocarbon	1300000	30000	ug/L

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	0.0 SRD	(66 - 136)

**NOTE (S) :**

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.  
The unknown from n-C08 to n-C26 was quantitated based on a diesel reference from n-C10 to n-C24.



# QC DATA ASSOCIATION SUMMARY

G9F050163

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 8015 MOD		9160337	
002	WATER	SW846 8015 MOD		9160337	
003	WATER	SW846 8015 MOD		9160337	
004	WATER	SW846 8015 MOD		9160337	
005	WATER	SW846 8015 MOD		9160337	



METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: G9F050163      Work Order #....: CWN79101      Matrix.....: WATER  
MB Lot-Sample #: G9F090000-337  
Prep Date.....: 06/09/99  
Analysis Date...: 06/24/99      Prep Batch #....: 9160337  
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
TPH (as Diesel)	ND	50	ug/L	SW846 8015 MOD
Unknown Hydrocarbon	ND	50	ug/L	SW846 8015 MOD
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>		
	<u>RECOVERY</u>	<u>LIMITS</u>		
o-Terphenyl	81	(66 - 136)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.



LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: G9F050163      Work Order #....: CWN79102-LCS      Matrix.....: WATER  
LCS Lot-Sample#: G9F090000-337      CWN79103-LCSD  
Prep Date.....: 06/09/99      Analysis Date...: 06/24/99  
Prep Batch #....: 9160337  
Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>		<u>PERCENT</u>		<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECOVERY</u>	<u>RPD</u>	
TPH (as Diesel)	300	217	ug/L	72		SW846 8015 MOD
	300	237	ug/L	79	8.9	SW846 8015 MOD

<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>
		<u>RECOVERY</u>	<u>LIMITS</u>
o-Terphenyl		89	(66 - 136)
		96	(66 - 136)

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters





LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: G9F050163      Work Order #....: CWN79102-LCS      Matrix.....: WATER  
LCS Lot-Sample#: G9F090000-337      CWN79103-LCSD  
Prep Date.....: 06/09/99      Analysis Date...: 06/24/99  
Prep Batch #....: 9160337  
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
TPH (as Diesel)	72	(50 - 129)			SW846 8015 MOD
	79	(50 - 129)	8.9	(0-23)	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	89	(66 - 136)
	96	(66 - 136)

**NOTE(S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters