

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, First Quarter 1999
Former Penske Truck Leasing Company Facility
725 Julie Ann Way
Oakland, California

WESTERN REGION

Dear Mr. Chan:

Richmond, California,
August 27, 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 first 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 currently evaluating the various options for this remediation.

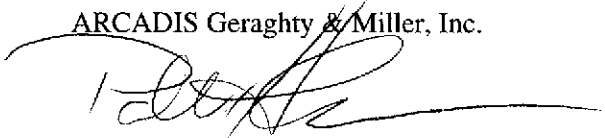
Extension:
(510) 233-3200

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

Our ref.:
Project No. RC000321.0002/act899

PENSKE

Truck Leasing

Via Fax 510-233-3204

August 16, 1999

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

Re: First 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 G. Saut
Environmental Project Manager

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Results of Quarterly Groundwater Monitoring

First Quarter 1999

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

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 **ARCADIS**
GERAGHTY & MILLER

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

QUARTERLY REPORT

Prepared June 11, 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

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

WESTERN REGION

Dear Mr. Saut:

Richmond,
June 11, 1999

This report presents the results of the first quarter 1999 quarterly groundwater monitoring and sampling activities performed on March 2-4, 1999, at the former Penske Truck Leasing Co. (Penske) facility referenced above (Figure 1).

Contact:
Paul V. Hehn

The scope of work for this project was presented to Penske in an 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 and sampling were performed during this quarterly sampling event on Observation Wells OW-1 and OW-2. The details of this additional monitoring and sampling are discussed in this report.

Discussion on Recent 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 needed to be sampled. He also stated that there was no need to run total dissolved solids (TDS) from any of the wells being sampled at the site.

Consequently, TDS is no longer being analyzed for groundwater samples collected, and 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 all 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 from all available wells during the current fourth quarter 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 will be sampled again during the second quarter of 1999 and then every other quarter thereafter.

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. Some of this information was collected during the current quarterly event reported herein. 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 subject quarterly groundwater monitoring was performed on March 2-4, 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 requested by the ACHCSA, additional

monitoring and sampling was performed for UST excavation backfill observation wells OW-1 and OW-2.

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 also was not sampled during the current quarterly event since 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 second quarter of 1999.

The ACHCSA also requested that all wells be monitored for dissolved oxygen and redox. Both measurements were attempted during this quarter. The redox measurements were collected for all wells but due to equipment failure, the dissolved oxygen measurements could not be collected. These measurements will be collected again during the following 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 liquid-phase hydrocarbons. 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 four full well volume purge. The approximate well volume estimated by the field personnel indicates that the extra purge volume generally exceeds the four volume purge requirements by 15 to 50%. During the current event, it was estimated that 2,300 gallons were purged from eight wells at the site. This total is five times the groundwater purged than would normally be required by a four volume well purge for all of wells sampled during this event.

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 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). The groundwater samples collected from Observation Wells OW-1 and OW-2 were also analyzed for ferrous iron (USEPA Method 6010B), nitrate (USEPA Method 300), and sulfate (USEPA Method 300).

Additional Activities During the Quarter

During the first quarter of 1999, the ORC™ socks placed in Observation Wells OW-1 and OW-2 were changed. To complete this change, the existing ORC™ socks were removed from the wells. Once the socks were removed from the wells, the wells were monitored for dissolved oxygen and redox measurements using down well field instruments. Following these measurements, the wells were purged, monitored and sampled using the normal well purging and sampling procedures followed for this site. The groundwater samples collected from Observation Wells OW-1 and OW-2 were analyzed for TPH as diesel. Originally, the groundwater from these wells was also to be analyzed for TPH as gasoline, BTEX, and MTBE. However, due to an error, the samples for these additional analytes were not collected. Groundwater samples were also collected and analyzed for biodegradation parameters, specifically nitrate, sulfate and ferrous iron as requested by the ACHCSA. Following the collection of the groundwater samples, additional groundwater was also purged from the wells using the vacuum-enhanced purging method. Upon completion of the well purging and sampling, the replacement ORC™ socks were installed in Wells OW-1 and OW-2.

The details of the measurements and analytical results of the groundwater monitored and sampled from Observation Wells OW-1 and OW-2 are included in Table 1, 2 and 3 of this report.

Results

Shallow Groundwater Flow

A summary of the depth-to-water data is presented in Table 1. Depth to water ranged from 4.13 feet (Monitoring Well MW-4) to 5.85 feet (Monitoring Well MW-3) below the ground surface. A contour map based on the groundwater elevation data collected March 4, 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 March 1999. Liquid-phase hydrocarbons were measured in Wells MW-1 (0.07 foot) and MW-7 (0.29 foot) during this monitoring event.

The difference in the elevation of the groundwater surface between Wells MW-2 and MW-1 is 0.19 feet, producing a hydraulic gradient (slope of the groundwater surface) of approximately 0.0021 feet/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 the redox 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 (95 µg/L) and MW-7 (820 µg/L). TPH as diesel was detected in the groundwater samples collected from Monitoring Wells MW-1 (62,000 µg/L), MW-2 (1,200 µg/L), MW-4 (2,900 µg/L), MW-5 (780 µg/L), MW-7 (170,000 µg/L), OW-1 (31,000 µg/L), and OW-2 (6,400 µg/L). Benzene was only detected in the groundwater samples collected from Monitoring Wells MW-1 (8 µg/L) and MW-7 (57 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. The results of the ferrous iron, nitrate and sulfate analysis are presented in Table 3.

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 (57 µg/L). Since the benzene concentration detected in Guard Well MW-7 was below the compliance level during the previous quarterly sampling event (fourth quarter 1998), downgradient Well MW-8 was not sampled during the current fourth 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 not detected in the samples collected from any of the wells sampled during this event. Decreases were detected in the groundwater samples collected from Wells MW-1 (from 2,000 µg/L to 95 µg/L), MW-2 (from 67 µg/L to not detected [ND]) and MW-7 (from 3,900 µg/L to 820 µg/L). TPH as gasoline was ND in Wells MW-2, MW-4, and MW-5.

Increases in TPH as diesel concentrations were detected only in the samples collected from Well MW-2 (from 1,200 µg/L to 2,000 µg/L). Decreases were detected in the groundwater samples collected from Wells MW-1 (from 79,000 µg/L to 62,000 µg/L), MW-4 (from 3,700 µg/L to 2,900 µg/L), MW-5 (from 890 µg/L to 780 µg/L) and MW-7 (from 240,000 µg/L to 170,000 µg/L).

Increases in benzene concentrations were only detected in the samples collected from Well MW-7 (from 51 µg/L to 57 µg/L). Decreases in benzene concentrations were detected in the groundwater samples collected from Well MW-1 (from 32 µg/L to 8 µg/L). Benzene was ND in Wells MW-2, MW-4, and MW-5.

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

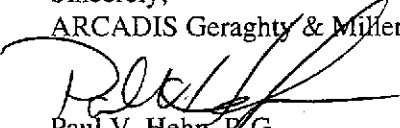
from the groundwater downgradient from the former tank excavation which will aid in the remediation of the groundwater at this former facility.


Additional Groundwater Biodegradation Monitoring Results

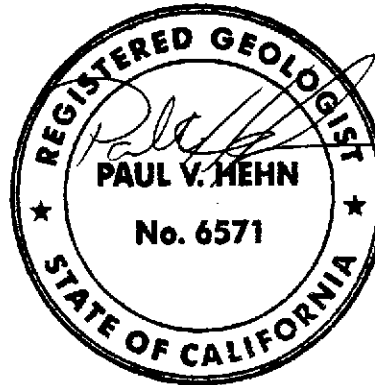
The results of this additional sampling and monitoring of biodegradation parameters indicate that active biodegradation is occurring beneath the facility. However, based on the low sulfate, nitrate and redox results, the biodegradation of the petroleum hydrocarbons in the area of the former UST excavation,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

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 - First Quarter 1999 |
| Figure 3 | Benzene Concentrations - First Quarter 1999 |
| Figure 4 | Biodegradation Parameter Results - First 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.

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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)
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		
	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	
4-Mar-99	5.05		0.38	NM	75.27 (f)	>75	7.53	69.4	4,900	NM	NM	

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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)
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	EQ	-212	

ARCADIS GERAGHTY & 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)
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	
4-Mar-99	5.85		0.25	33.55	NS	NS	NS	NS	NS	EQ	159	

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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)
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	
4-Mar-99	4.13		1.05	NM	76.41 (f)	>77	7.64	64.7	8,700	NM	NM	

ARCADIS GERAGHTY & 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)
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	BQ	346

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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			DO (mg/L)	Redox (mv)	Casing Diameter (inches)
								pH	Temp. (°F)	SC (µS/cm)			
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	

ARCADIS GERAGHTY & 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			DO (mg/L)	Redox (mv)	Casing Diameter (Inches)
								pH	Temp. (°F)	SC ¹ (µS/cm)			
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	EQ	179		
OW-1	4-Mar-99	4.58	5.09	0.51	14.65	26.18	27.00	7.51	60.0	2,910	EQ	-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	EQ	44	4

Notes appear on the following page.

ARCADIS GERAGHTY & 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)	
(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											
(mg/L)	milligrams per liter											
(mv)	millivolt											
NM	Not measured											
NS	Well not sampled or monitored during this quarterly event.											
EQ	Not measured due to equipment failure.											

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 & 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	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-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)	--	

ARCADIS GERAGHTY & MILLER

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 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-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		--
	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)	2,000 (af,ag)	ND(<0.50)	ND(<0.50)	ND(<0.50)	ND(<1)	ND(<5)	--	

ARCADIS GERAGHTY & 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-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	--

ARCADIS GERAGHTY & 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								Total Dissolved
		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)	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	14		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
	28-Aug-96	70,000 (k)	1,300,000	340	ND(<200)	ND(<200)	ND(<200)		1,800
	21-Nov-96	52,000 (i)	40,000	130	ND(<100)	ND(<100)	ND(<100)		5,400
	20-Feb-97	64,000 (i)	470,000	ND(<100)	ND(<100)	ND(<100)	ND(<100)		1,500
	28-May-97	11,000 (i)	1,000,000 (o)	ND(<100)	ND(<100)	ND(<100)	ND(<100)		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	0.8	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)	--	

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

Well	Date								Total Dissolved
		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)	Solids (c) (mg/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(<0.3)		--
	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)	--	

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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-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	--	

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

Well	Date								Total Dissolved
		TPH Gasoline (a) (µg/L)	TPH Diesel (a) (µg/L)	Benzene (b) (µg/L)	Toluene (b) (µg/L)	Ethylbenzenes (b) (µg/L)	Xylenes (b) (µg/L)	MTBE (b) (µg/L)	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)	ND(<300)	3,200
	17-Nov-97	15,000 (r)	18,000,000 (r)	110 (r)	41 (r)	12 (r)	110 (r)	ND(<50) (r)	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)	--

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 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	--
	OW-1	4-Mar-99	--	31,000 (ac,ae,y)	--	--	--	--	--
OW-2	4-Mar-99	--	6,400 (ai,ae,y)	--	--	--	--	--	--
TB-LB	4-Mar-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.

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 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)							
		(b)							
		(c)							
		(d)							
		(e)							
		(f)							
		(g)							
		(h)							
		(i)							
		(j)							
		(k)							
		(l)							
		(m)							
		(n)							
		(o)							
		(p)							
		(q)							
		(r)							
		(s)							
		(t)							
		(u)							
		(v)							
		(w)							
		(x)							

Notes continue on the following page.

ARCADIS GERAGHTY & 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)
(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.								
()	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.

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

Table 3: Summary of Groundwater Analytical Results
 Former Penske Truck Leasing Facility,
 725 Julie Ann Way, Oakland, California.

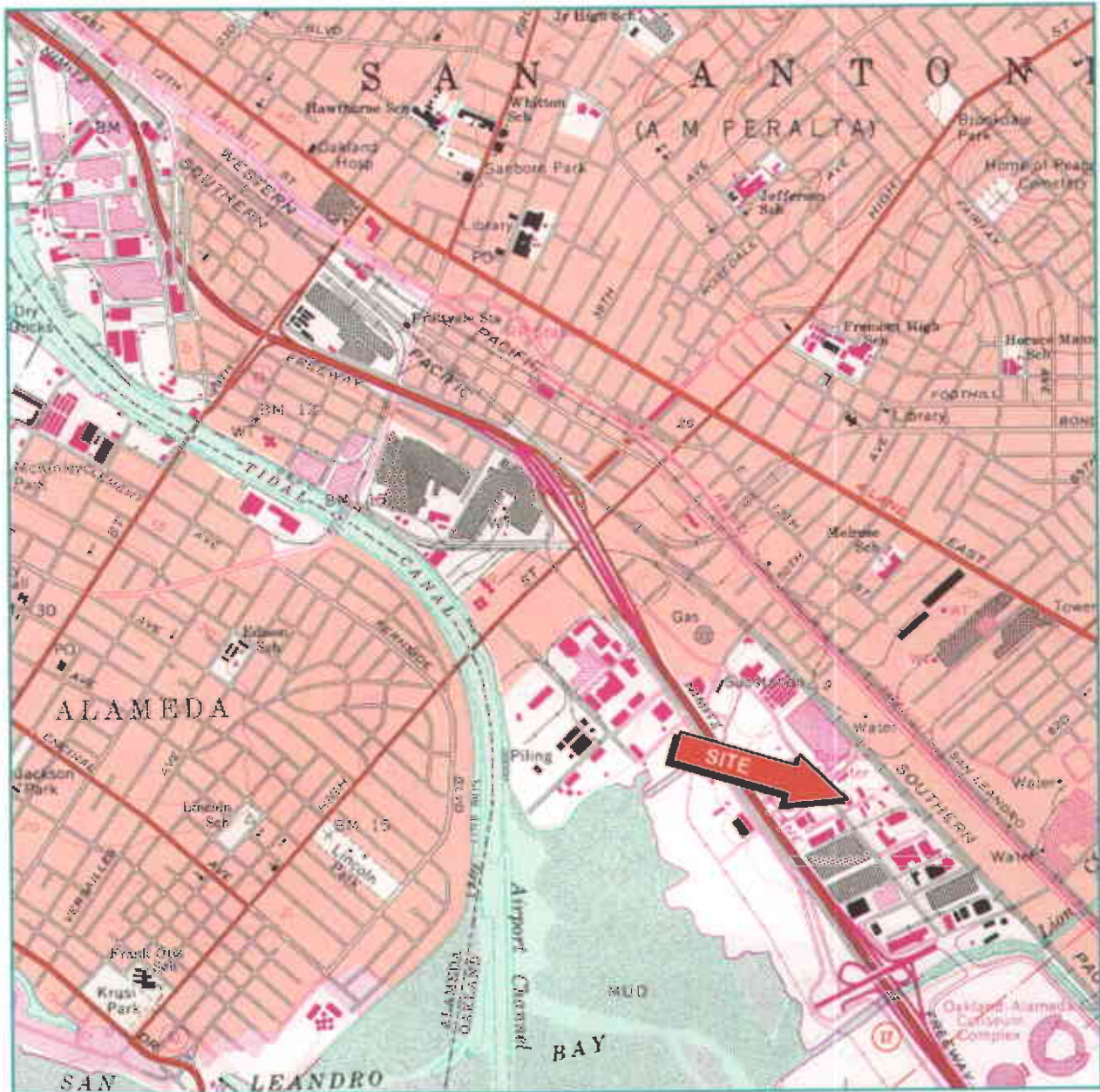
Well	Date	Ferrous Iron (mg/L)(a)	Nitrate (mg/L)(b)	Sulfate (mg/L)(b)
OW-1	4-Mar-99	5.6	0.054	9.0
OW-2	4-Mar-99	1.9	2.7	65.9

(a) Analyzed by USEPA Method 6010B.

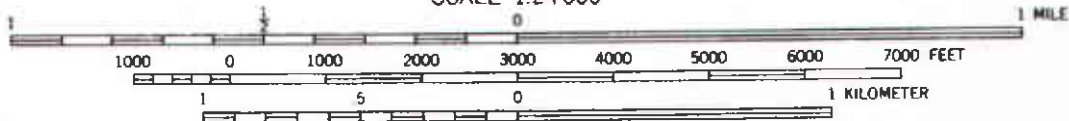
(b) Analyzed by USEPA Method 300.

mg/L Milligrams per liter

Analysis by Quanterra Incorporated, West Sacramento, California.



SCALE 1:24 000



CONTOUR INTERVAL 20 FEET



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

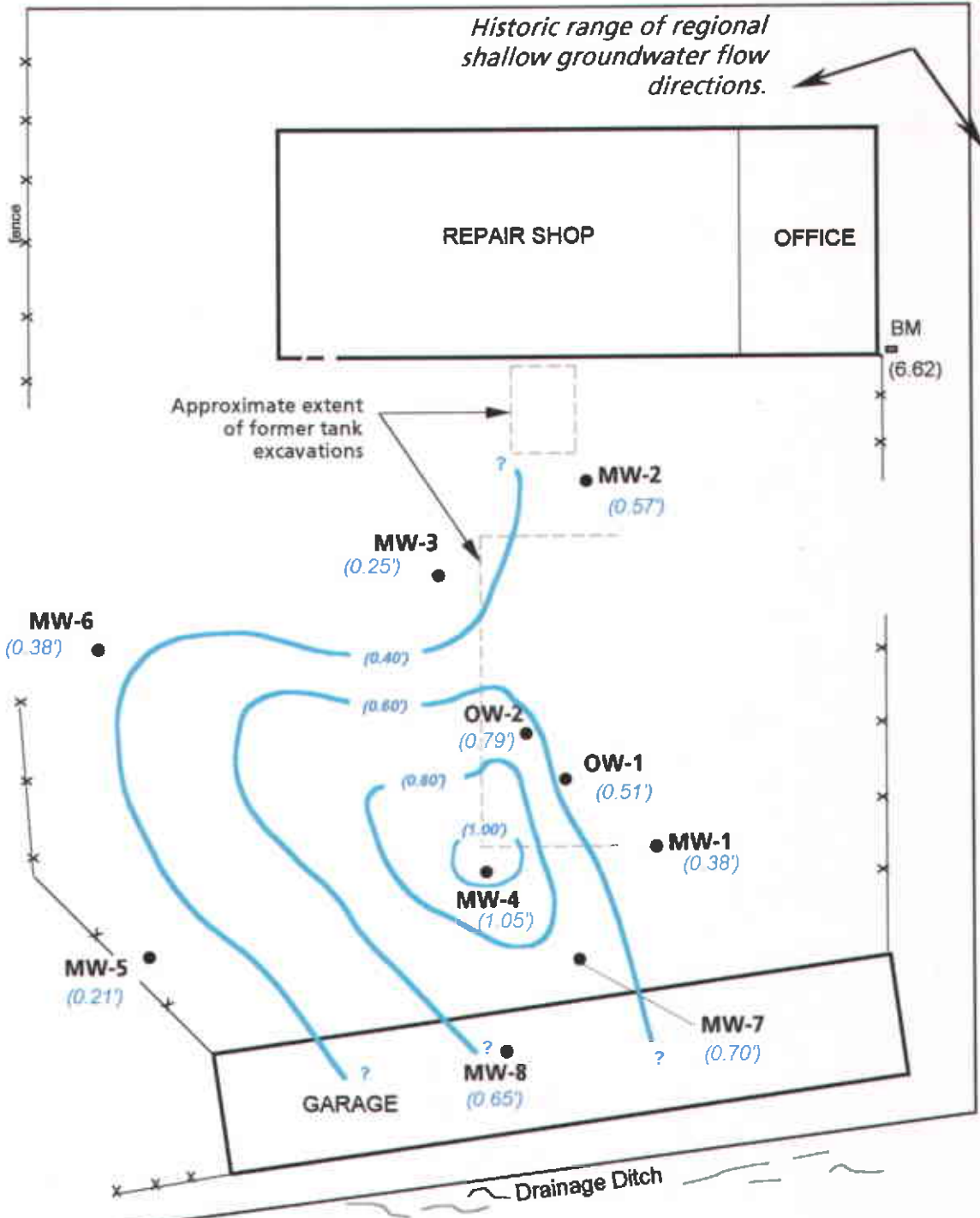
ARCADIS
GERAGHTY & MILLER

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

RC000019.0000
FIGURE

1

Historic range of regional shallow groundwater flow directions.

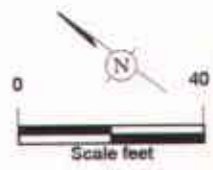


Julie Ann Way

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).

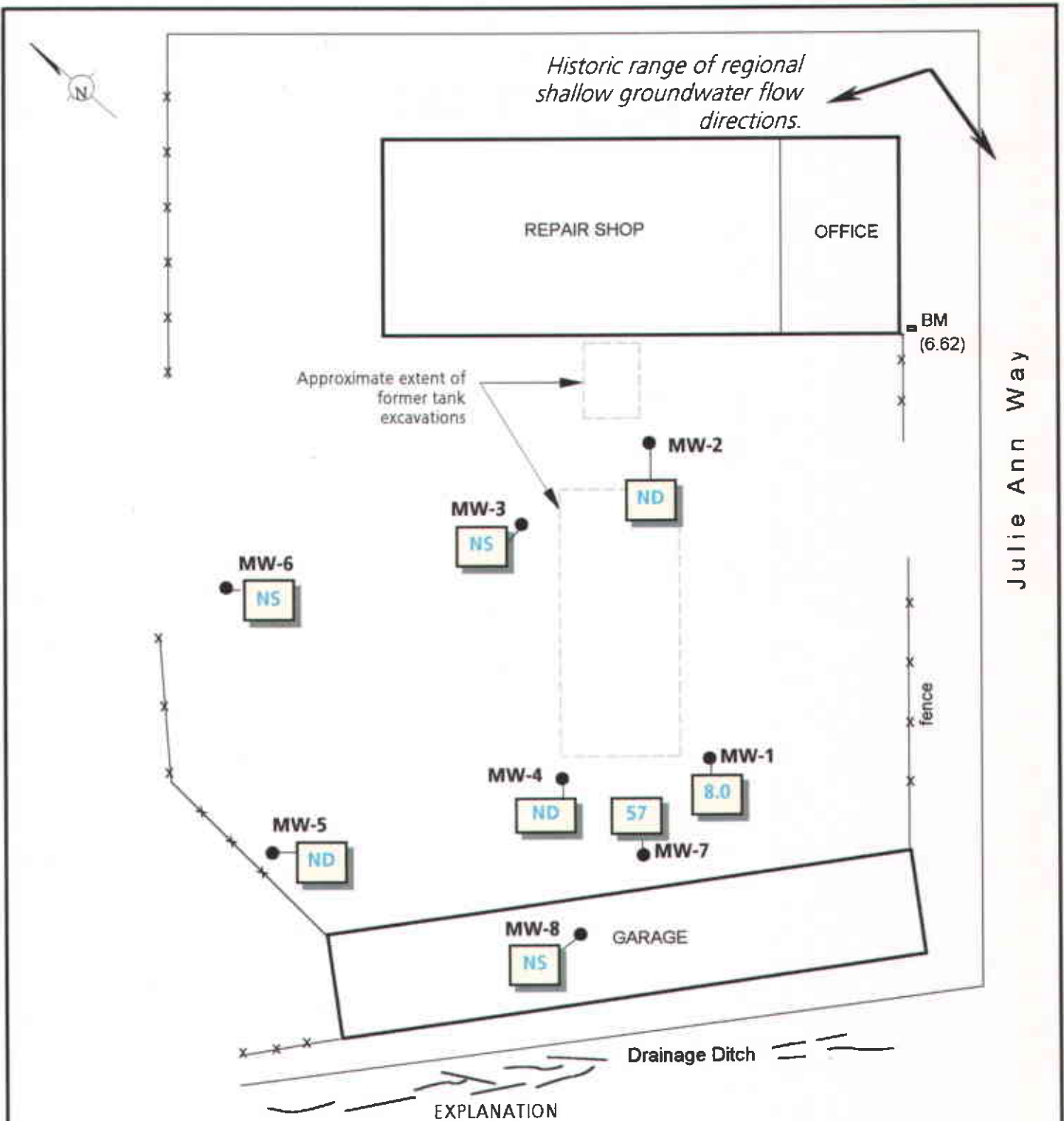
- (-0.50) Groundwater elevation (feet) relative to benchmark, measured March 2, 1998
- (-0.30) —? Groundwater elevation contour (feet); dashed where inferred (contour interval equals 0.20 feet) queried where unknown.



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

RC000019.0010
FIGURE

2

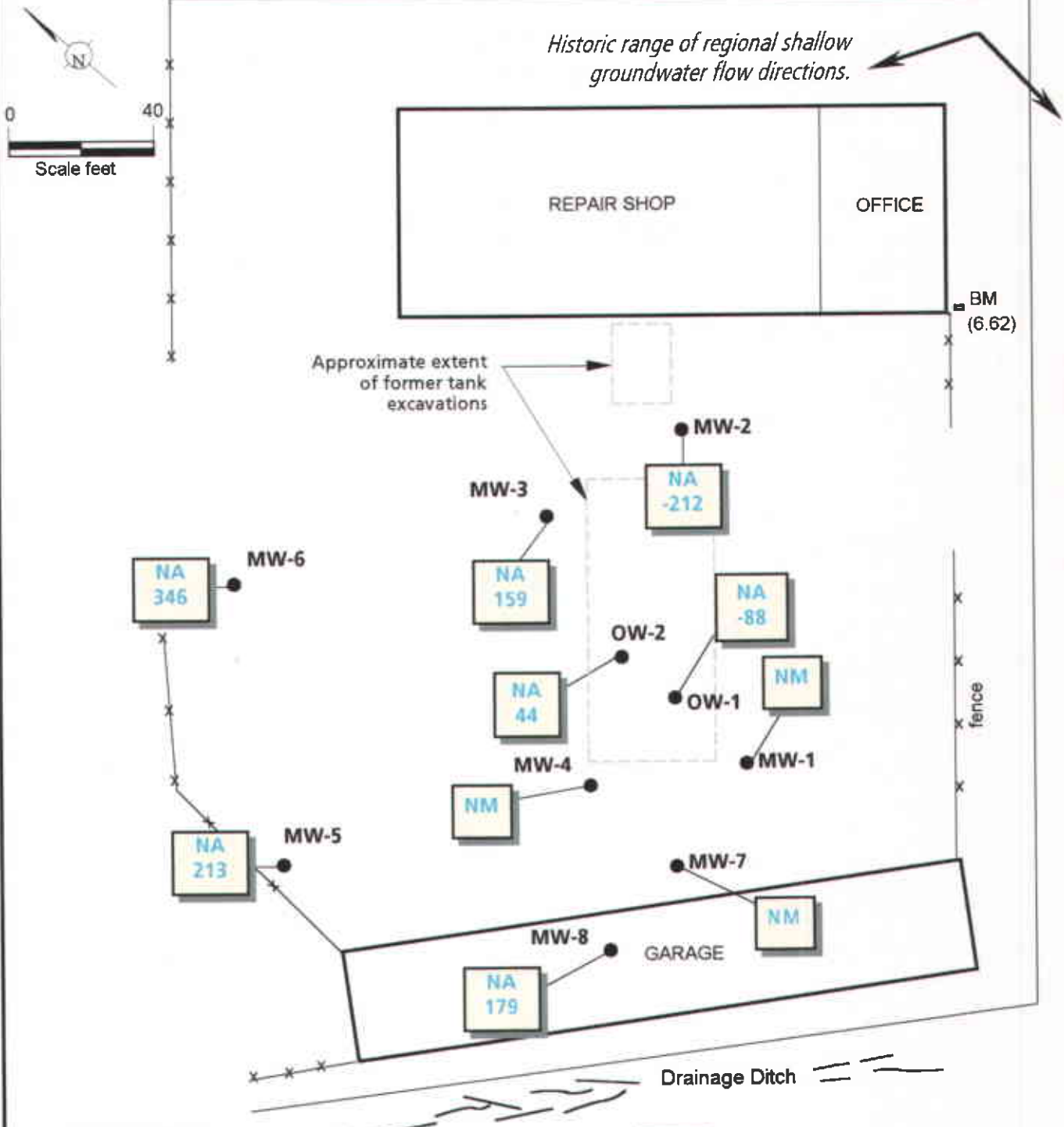


Julie Ann Way



BENZENE CONCENTRATIONS
 First Quarter 1999
 Former Penske Truck Leasing Co.
 725 Julie Ann Way, Oakland, California

RC000019.0010
FIGURE
3

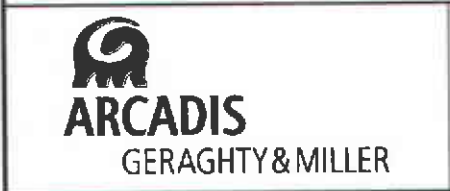


Julie Ann Way

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).
- NA** Not available due to equipment failure.

- NA-212** Dissolved Oxygen (DO) mg/L
Oxygen Reduction Potential (Redox) mv
- NM** Well not measured during this quarterly event.



BIODEGRADATION PARAMETER RESULTS
 First 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



Environmental
Services

Quanterra Incorporated
880 Riverside Parkway
West Sacramento, California 95605

916 373-5600 Telephone
916 372-1059 Fax

April 9, 1999

QUANTERRA INCORPORATED PROJECT NUMBER: 304494
PO/CONTRACT: RC000019.0010

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

Dear Mr. Hehn,

This report contains the analytical results for the eight samples received under chain of custody by Quanterra Incorporated on March 5, 1999. These samples are associated with your PENSKE/Oakland project.

The case narrative is an integral part of this report.

If you have any questions, please feel free to call me at (916)374-4383.

Sincerely,

A handwritten signature in cursive script, appearing to read "Calvin Tanaka".

Calvin Tanaka
Project Manager

TABLE OF CONTENTS

QUANTERRA INCORPORATED PROJECT NUMBER 304494

Case Narrative

Quanterra's Quality Assurance Program

Sample Description Information

Chain of Custody Documentation

Total Petroleum Hydrocarbons (Gas) - Method 8021

Samples: 1 - 6

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

Total Petroleum Hydrocarbons (BTEX) - Method 8021

Samples: 1 - 6

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

Total Petroleum Hydrocarbons (Diesel) - Method 8015

Samples: 1 - 5, 7, 8

Sample Data Sheets

Method Blank Reports

Laboratory QC Reports

CASE NARRATIVE

QUANTERRA INCORPORATED PROJECT NUMBER 304494

General Comments

The sample containers were received intact and in good condition.

Two samples, OW-1 and OW-2, were received, but not listed on the Chain of custody form. The samples were analyzed for TPH as Diesel.

Where applicable, the reporting limits are adjusted to reflect any dilutions.

The method blank and LCS results for this set met the specified QC criteria for acceptance. Where QC criteria were not initially met, corrective actions are documented.

There were no anomalies associated with this project.

Quanterra - Western Region
Quality Control Definitions

QC Parameter	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® Quality Control Program, Policy QA-003, Rev. 0, 8/19/96.

Project Number/Name RC000014.001D
 Project Location PELSKE / OAKLAND
 Laboratory QUANTERA
 Project Manager PVH
 Sampler(s)/Affiliation RK

ANALYSIS / METHOD / SIZE	
TPH-D	BTEX / TPH-L / MTBE

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	TPH-D	BTEX / TPH-L / MTBE	Remarks	Total
DW-1	L	AS labeled					
DW-2							
MW-1			X	X			
MW-2			X	X			
MW-4			X	X			
MW-5			X	X			
MW-7			X	X			
TB-LB			X	X			
OW-1			RK X		SAMPLE DISSOLVED		
OW-2			X		PHASE ONLY		

rec'd in good cond. - 03-4-99

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

Total No. of Bottles/Containers 24

Relinquished by: <u>Paul K...</u>	Organization: <u>ARCADIS GERAGHTY + MILLER</u>	Date: <u>3/4/99</u>	Time: <u>1835</u>	Seal Intact?
Received by: <u>Clay H...</u>	Organization: <u>QES</u>	Date: <u>3/4/99</u>	Time: <u>1835</u>	Yes No <u>(N/A)</u>
Relinquished by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Seal Intact?
Received by: _____	Organization: _____	Date: <u>1/1</u>	Time: _____	Yes No <u>N/A</u>

Special Instructions/Remarks: _____

Delivery Method: In Person Common Carrier Lab Courier Other

SPECIFY

SPECIFY



SAMPLE DESCRIPTION INFORMATION
for
Geraghty & Miller, Inc.

Lab ID	Client ID	Matrix	Sampled		Received Date
			Date	Time	
304494-0001-SA	MW-1	AQUEOUS	04 MAR 99		04 MAR 99
304494-0002-SA	MW-2	AQUEOUS	04 MAR 99		04 MAR 99
304494-0003-SA	MW-4	AQUEOUS	04 MAR 99		04 MAR 99
304494-0004-SA	MW-5	AQUEOUS	04 MAR 99		04 MAR 99
304494-0005-SA	MW-7	AQUEOUS	04 MAR 99		04 MAR 99
304494-0006-TB	TB-LB	AQUEOUS	04 MAR 99		04 MAR 99
304494-0007-SA	OW-1	AQUEOUS	04 MAR 99		04 MAR 99
304494-0008-SA	OW-2	AQUEOUS	04 MAR 99		04 MAR 99

Total Petroleum Hydrocarbons (Gas)
- Method 8021



Total Petroleum Hydrocarbons (Gasoline)
Method P/T-GAS-TR

Client Name: Geraghty & Miller, Inc.
Client ID: MW-1
LAB ID: 304494-0001-SA
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: NA

Received: 04 MAR 99
Analyzed: 10 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Gasoline	ND	ug/L	50	
Unknown hydrocarbon	95	ug/L	50	I
Surrogate	Recovery		Acceptable Range	
4-Bromofluorobenzene	94 %		87 - 122	

Note 1 = The peak pattern present in this sample represents an unknown mixture atypical of gasoline in the range of n-C7 to greater than n-C12 and may contain weathered gasoline. Quantitation is based on a gasoline reference in the range of n-C7 to n-C12 only.

NA = Not Applicable
ND = Not Detected

Reported By: Karen Mason

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.
Rev 230787



Total Petroleum Hydrocarbons (Gasoline)
Method P/T-GAS-TR

Client Name: Geraghty & Miller, Inc.
Client ID: MW-2
LAB ID: 304494-0002-SA
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: NA

Received: 04 MAR 99
Analyzed: 10 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Gasoline	ND	ug/L	50	
Unknown hydrocarbon	ND	ug/L	50	
Surrogate	Recovery		Acceptable Range	
4-Bromofluorobenzene	97 %		87 - 122	

NA = Not Applicable
ND = Not Detected

Reported By: Karen Mason

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.
Rev 230787



Total Petroleum Hydrocarbons (Gasoline)
Method P/T-GAS-TR

Client Name: Geraghty & Miller, Inc.

Client ID: MW-4

LAB ID: 304494-0003-SA

Matrix: AQUEOUS

Authorized: 04 MAR 99

Sampled: 04 MAR 99

Prepared: NA

Received: 04 MAR 99

Analyzed: 10 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Gasoline	ND	ug/L	50	
Unknown hydrocarbon	ND	ug/L	50	
Surrogate	Recovery		Acceptable Range	
4-Bromofluorobenzene	98 %		87 - 122	

NA = Not Applicable

ND = Not Detected

Reported By: Karen Mason

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.

Rev 230787



Total Petroleum Hydrocarbons (Gasoline)
Method P/T-GAS-TR

Client Name: Geraghty & Miller, Inc.
Client ID: MW-5
LAB ID: 304494-0004-SA
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: NA

Received: 04 MAR 99
Analyzed: 10 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Gasoline	ND	ug/L	50	
Unknown hydrocarbon	ND	ug/L	50	
Surrogate	Recovery		Acceptable Range	
4-Bromofluorobenzene	95 %		87 - 122	

NA = Not Applicable
ND = Not Detected

Reported By: Karen Mason

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.
Rev 230787



Total Petroleum Hydrocarbons (Gasoline)
Method P/T-GAS-TR

Client Name: Geraghty & Miller, Inc.
Client ID: MW-7
LAB ID: 304494-0005-SA
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: NA

Received: 04 MAR 99
Analyzed: 10 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Gasoline	ND	ug/L	50	
Unknown hydrocarbon	820	ug/L	50	I
Surrogate	Recovery		Acceptable Range	
4-Bromofluorobenzene	84 %		87 - 122	I

Note 1 = The peak pattern present in this sample represents an unknown mixture atypical of gasoline in the range of n-C7 to greater than n-C12. Quantitation is based on a gasoline reference in the range of n-C7 to n-C12.

Note I = Surrogate recovery outside of limits due to sample matrix interference.
NA = Not Applicable
ND = Not Detected

Reported By: Karen Mason

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.
Rev 230787



Total Petroleum Hydrocarbons (Gasoline)
Method P/T-GAS-TR

Client Name: Geraghty & Miller, Inc.
Client ID: TB-LB
LAB ID: 304494-0006-TB
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: NA

Received: 04 MAR 99
Analyzed: 09 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Gasoline	ND	ug/L	50	
Unknown hydrocarbon	ND	ug/L	50	
Surrogate	Recovery		Acceptable Range	
4-Bromofluorobenzene	98 %		87 - 122	

NA = Not Applicable
ND = Not Detected

Reported By: Karen Mason

Approved By: Mike Orbanosky

The cover letter is an integral part of this report.
Rev 230787



QC LOT ASSIGNMENT REPORT
Volatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (LCS/BLANK)
304494-0001-SA	AQUEOUS	TPH-GAS-A	09 MAR 99-651	09 MAR 99-65A
304494-0002-SA	AQUEOUS	TPH-GAS-A	09 MAR 99-651	09 MAR 99-65A
304494-0003-SA	AQUEOUS	TPH-GAS-A	09 MAR 99-651	09 MAR 99-65A
304494-0004-SA	AQUEOUS	TPH-GAS-A	09 MAR 99-651	09 MAR 99-65A
304494-0005-SA	AQUEOUS	TPH-GAS-A	09 MAR 99-651	09 MAR 99-65A
304494-0006-TB	AQUEOUS	TPH-GAS-A	09 MAR 99-651	09 MAR 99-65A



METHOD BLANK REPORT
Volatile Organics by GC
Project: 304494

Test: TPH-GAS-TR-A
Method: P/T-GAS-TR
Matrix: AQUEOUS
QC Lot: 09 MAR 99-651
Analyzed: 09 MAR 99

Total Petroleum Hydrocarbons (Gasoline)

QC Run: 09 MAR 99-65A
Time: 13:43

Analyte	Result	Units	Reporting Limit	Qualifier
Gasoline	ND	ug/L	50	
Unknown hydrocarbon	ND	ug/L	50	
Surrogate	% Recovery	Acceptable Range		
4-Bromofluorobenzene	99	87 -122		

ND = Not Detected



LABORATORY CONTROL SAMPLE REPORT
Volatile Organics by GC
Project: 304494

Category: TPH-GAS-A TPH by Purge and Trap GC-FID
Testcode: TPH-GAS-TR-A Method: P/T-GAS-TR
Matrix: AQUEOUS Concentration Units: ug/L
QC Lot: 09 MAR 99-651 QC Run: 09 MAR 99-65A
Analyzed Date: 09 MAR 99 Time: 14:22

Analyte	-----Concentration-----		Accuracy(%)	
	Spiked	Measured	LCS	Limits
Gasoline	1000	985	98	74-120
Surrogate	-----Concentration-----		Accuracy(%)	
	Spiked	Measured	LCS	Limits
4-Bromofluorobenzene	20.0	21.8	109	87-122

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



MATRIX SPIKE QC REPORT
Volatile Organics by GC
Project: 304494

Category: TPH-GAS-A = TPH by Purge and Trap GC-FID
Test : TPH-GAS-TR-A
Matrix : AQUEOUS
Sample : 304474-0007
MS Run : 09 MAR 99-65A
Units : ug/L

Units Qualifier: Wet Weight

Analyte	-----Concentration-----		Amount Spiked	Percent Recovery	Control Limits	RPD Limit
	Sample Result	MS Result				
Gasoline	ND	997	1000	100	74-120	15
4-Bromofluorobenzene	98	111		0.0	87-122	0

ND = Not Detected

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

Total Petroleum Hydrocarbons
(BTEX) - Method 8021



Total Petroleum Hydrocarbons (Gasoline) and BTEX
Method 5030/GC/PID/FID

Client Name: Geraghty & Miller, Inc.

Client ID: MW-1

LAB ID: 304494-0001-SA

Matrix: AQUEOUS

Authorized: 04 MAR 99

Sampled: 04 MAR 99

Prepared: NA

Received: 04 MAR 99

Analyzed: 10 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Benzene	8.0	ug/L	0.50	
Toluene	ND	ug/L	0.50	
Ethylbenzene	1.0	ug/L	0.50	
M&P Xylene	1.7	ug/L	1.0	
o-Xylene	1.1	ug/L	0.50	
Methyl-t-butyl ether (MTBE)	ND	ug/L	5.0	

Surrogate	Recovery	Acceptable Range
a,a,a-Trifluorotoluene	84 %	70 - 130

NA = Not Applicable

ND = Not Detected

Reported By: Karen Mason

Approved By: Calvin Tanaka

The cover letter is an integral part of this report.

Rev 230787



Total Petroleum Hydrocarbons (Gasoline) and BTEX
Method 5030/GC/PID/FID

Client Name: Geraghty & Miller, Inc.
Client ID: MW-2
LAB ID: 304494-0002-SA
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: NA

Received: 04 MAR 99
Analyzed: 10 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Benzene	ND	ug/L	0.50	
Toluene	ND	ug/L	0.50	
Ethylbenzene	ND	ug/L	0.50	
M&P Xylene	ND	ug/L	1.0	
o-Xylene	ND	ug/L	0.50	
Methyl-t-butyl ether (MTBE)	ND	ug/L	5.0	
Surrogate	Recovery		Acceptable Range	
a,a,a-Trifluorotoluene	87 %		70 - 130	

NA = Not Applicable
ND = Not Detected

Reported By: Karen Mason

Approved By: Calvin Tanaka

The cover letter is an integral part of this report.
Rev 230787



Total Petroleum Hydrocarbons (Gasoline) and BTEX
Method 5030/GC/PID/FID

Client Name: Geraghty & Miller, Inc.
Client ID: MW-4
LAB ID: 304494-0003-SA
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: NA

Received: 04 MAR 99
Analyzed: 10 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Benzene	ND	ug/L	0.50	
Toluene	ND	ug/L	0.50	
Ethylbenzene	ND	ug/L	0.50	
M&P Xylene	ND	ug/L	1.0	
o-Xylene	ND	ug/L	0.50	
Methyl-t-butyl ether (MTBE)	ND	ug/L	5.0	

Surrogate	Recovery	Acceptable Range
a, a, a-Trifluorotoluene	85 %	70 - 130

NA = Not Applicable
ND = Not Detected

Reported By: Karen Mason

Approved By: Calvin Tanaka

The cover letter is an integral part of this report.
Rev 230787



Total Petroleum Hydrocarbons (Gasoline) and BTEX
Method 5030/GC/PID/FID

Client Name: Geraghty & Miller, Inc.
Client ID: MW-5
LAB ID: 304494-0004-SA
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: NA

Received: 04 MAR 99
Analyzed: 10 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Benzene	ND	ug/L	0.50	
Toluene	ND	ug/L	0.50	
Ethylbenzene	ND	ug/L	0.50	
M&P Xylene	ND	ug/L	1.0	
o-Xylene	ND	ug/L	0.50	
Methyl-t-butyl ether (MTBE)	ND	ug/L	5.0	

Surrogate	Recovery	Acceptable Range
a,a,a-Trifluorotoluene	83 %	70 - 130

NA = Not Applicable
ND = Not Detected

Reported By: Karen Mason

Approved By: Calvin Tanaka

The cover letter is an integral part of this report.
Rev 230787



Total Petroleum Hydrocarbons (Gasoline) and BTEX
Method 5030/GC/PID/FID

Client Name: Geraghty & Miller, Inc.

Client ID: MW-7

LAB ID: 304494-0005-SA

Matrix: AQUEOUS

Authorized: 04 MAR 99

Sampled: 04 MAR 99

Prepared: NA

Received: 04 MAR 99

Analyzed: 10 MAR 99

Dilution Factor: 10

Parameter	Result	Units	Reporting Limit	Qualifier
Benzene	57	ug/L	5.0	o
Toluene	ND	ug/L	5.0	
Ethylbenzene	17	ug/L	5.0	
M&P Xylene	27	ug/L	10	
o-Xylene	19	ug/L	5.0	
Methyl-t-butyl ether (MTBE)	ND	ug/L	50	

Surrogate	Recovery	Acceptable Range
a,a,a-Trifluorotoluene	84 %	70 - 130

Note o = Reporting Limit(s) raised due to high level of analyte present in sample.
NA = Not Applicable
ND = Not Detected

Reported By: Karen Mason

Approved By: Calvin Tanaka

The cover letter is an integral part of this report.
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Total Petroleum Hydrocarbons (Gasoline) and BTEX
Method 5030/GC/PID/FID

Client Name: Geraghty & Miller, Inc.
Client ID: TB-LB
LAB ID: 304494-0006-TB
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: NA

Received: 04 MAR 99
Analyzed: 09 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Benzene	ND	ug/L	0.50	
Toluene	ND	ug/L	0.50	
Ethylbenzene	ND	ug/L	0.50	
M&P Xylene	ND	ug/L	1.0	
o-Xylene	ND	ug/L	0.50	
Methyl-t-butyl ether (MTBE)	ND	ug/L	5.0	

Surrogate	Recovery	Acceptable Range
a,a,a-Trifluorotoluene	89 %	70 - 130

NA = Not Applicable
ND = Not Detected

Reported By: Karen Mason

Approved By: Calvin Tanaka

The cover letter is an integral part of this report.
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QC LOT ASSIGNMENT REPORT - MS QC
Volatile Organics by GC

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (BLANK/LCS)	MS QC Run Number (SA,MS,SD,DU)
304494-0001-SA	AQUEOUS	TPH-BTEX-A	09 MAR 99-65A	09 MAR 99-65A	
304494-0002-SA	AQUEOUS	TPH-BTEX-A	09 MAR 99-65A	09 MAR 99-65A	
304494-0003-SA	AQUEOUS	TPH-BTEX-A	09 MAR 99-65A	09 MAR 99-65A	
304494-0004-SA	AQUEOUS	TPH-BTEX-A	09 MAR 99-65A	09 MAR 99-65A	
304494-0005-SA	AQUEOUS	TPH-BTEX-A	09 MAR 99-65A	09 MAR 99-65A	
304494-0006-TB	AQUEOUS	TPH-BTEX-A	09 MAR 99-65A	09 MAR 99-65A	



METHOD BLANK REPORT
Volatile Organics by GC
Project: 304494

Test: TPH-GBX-A
Method: 5030/GC/PID/FID
Matrix: AQUEOUS
QC Lot: 09 MAR 99-65A
Analyzed: 09 MAR 99-

Total Petroleum Hydrocarbons (Gasoline) and BTEX

QC Run: 09 MAR 99-65A
Time: 13:43

Analyte	Result	Units*	Reporting Limit	Qualifier
Benzene	ND	ug/L	0.50	
Toluene	ND	ug/L	0.50	
Ethylbenzene	ND	ug/L	0.50	
M&P Xylene	ND	ug/L	1.0	
o-Xylene	ND	ug/L	0.50	
Methyl-t-butyl ether (MTBE)	ND	ug/L	5.0	
Surrogate	% Recovery		Acceptable Range	
a,a,a-Trifluorotoluene	87		70 -130	

ND = Not Detected

DUPLICATE CONTROL SAMPLE REPORT
 Volatile Organics by GC
 Project: 304494

Category: TPH-BTEX-A TPH and BTEX (Gasoline)

Testcode: TPH-GBX-A

Matrix: AQUEOUS

QC Lot: 09 MAR 99-65A

Analyzed Date: 10 MAR 99

Method: 5030/GC/PID/FID

Concentration Units: ug/L

Time: 05:58

Analyte	-----Concentration----- Spiked	-----Measured-----		Accuracy (%)		Limits	Precision (RPD)	
		DCS1	DCS2	DCS1	DCS2		DCS Limit	#
Benzene	10.0	9.26	9.31	93	93	79-121	0.51	10
Toluene	10.0	9.13	9.09	91	91	76-120	0.37	10
Ethylbenzene	10.0	9.17	8.90	92	89	79-119	3.0	15
M&P Xylene	10.0	18.8	18.0	188	180	79-119	4.6	15
o-Xylene	10.0	9.36	9.04	94	90	79-119	3.4	15

Surrogate	-----Concentration----- Spiked	-----Measured-----		Accuracy (%)		Limits
		DCS1	DCS2	DCS1	DCS2	
a,a,a-Trifluorotoluene	20.0	17.4	16.9	87	84	70-130

Note #: Outside of control limits.
 Calculations are performed before rounding to avoid round-off errors in calculated results.

*Total Petroleum Hydrocarbons
(Diesel) - Method 8015*



Total Petroleum Hydrocarbons by GC/FID (Triregional)
Method TPH-D-TRIREGIONAL

Client Name: Geraghty & Miller, Inc.

Client ID: MW-1

LAB ID: 304494-0001-SA

Matrix: AQUEOUS

Authorized: 04 MAR 99

Sampled: 04 MAR 99

Prepared: 09 MAR 99

Received: 04 MAR 99

Analyzed: 11 MAR 99

Dilution Factor: 100

Parameter	Result	Units	Reporting Limit	Qualifier
Diesel Fuel	ND	ug/L	5000	o
Unknown hydrocarbon	62000	ug/L	5000	1
Surrogate	Recovery		Acceptable Range	
o-Terphenyl	ND %		73 - 134	H

Note 1 = The hydrocarbon patten 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.

Note H = Spiked analyte not detected because of required sample dilution.

Note o = Reporting limit(s) raised due to high level of analyte present in sample.

ND = Not Detected

Reported By: Cindy Jervi

Approved By: Emily Uebelhoer

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Total Petroleum Hydrocarbons by GC/FID (Triregional)
Method TPH-D-TRIREGIONAL

Client Name: Geraghty & Miller, Inc.

Client ID: MW-2

LAB ID: 304494-0002-SA

Matrix: AQUEOUS

Authorized: 04 MAR 99

Sampled: 04 MAR 99

Prepared: 09 MAR 99

Received: 04 MAR 99

Analyzed: 11 MAR 99

Dilution Factor: 2.0

Parameter	Result	Units	Reporting Limit	Qualifier
Diesel Fuel	ND	ug/L	100	o
Unknown hydrocarbon	2000	ug/L	100	I
Surrogate	Recovery		Acceptable Range	
o-Terphenyl	151 %		73 - 134	I

Note 1 = The hydrocarbon patten 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 C10 and n-C24 only.

Note I = Surrogate recovery outside of limits due to sample matrix interference.

Note o = Reporting limit(s) raised due to high level of analyte present in sample.

ND = Not Detected

Reported By: Cindy Jervi

Approved By: Emily Uebelhoer

The cover letter is an integral part of this report.

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Total Petroleum Hydrocarbons by GC/FID (Triregional)
Method TPH-D-TRIREGIONAL

Client Name: Geraghty & Miller, Inc.
Client ID: MW-4
LAB ID: 304494-0003-SA
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: 09 MAR 99

Received: 04 MAR 99
Analyzed: 11 MAR 99

Dilution Factor: 2.0

Parameter	Result	Units	Reporting Limit	Qualifier
Diesel Fuel	ND	ug/L	100	o
Unknown hydrocarbon	2900	ug/L	100	I
Surrogate	Recovery		Acceptable Range	
o-Terphenyl	221 %		73 - 134	I

Note 1 = The hydrocarbon patter 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.

Note I = Surrogate recovery outside of limits due to sample matrix interference.

Note o = Reporting limit(s) raised due to high level of analyte present in sample.

ND = Not Detected

Reported By: Cindy Jervi

Approved By: Emily Uebelhoer

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Total Petroleum Hydrocarbons by GC/FID (Triregional)
Method TPH-D-TRIREGIONAL

Client Name: Geraghty & Miller, Inc.
Client ID: MW-5
LAB ID: 304494-0004-SA
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: 09 MAR 99

Received: 04 MAR 99
Analyzed: 11 MAR 99

Dilution Factor: 1.0

Parameter	Result	Units	Reporting Limit	Qualifier
Diesel Fuel	ND	ug/L	50	
Unknown hydrocarbon	780	ug/L	50	I
Surrogate	Recovery		Acceptable Range	
o-Terphenyl	123 %		73 - 134	

Note 1 = The hydrocarbon patter 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.

ND = Not Detected

Reported By: Cindy Jervi

Approved By: Emily Uebelhoer

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Total Petroleum Hydrocarbons by GC/FID (Triregional)
Method TPH-D-TRIREGIONAL

Client Name: Geraghty & Miller, Inc.

Client ID: MW-7

LAB ID: 304494-0005-SA

Matrix: AQUEOUS

Authorized: 04 MAR 99

Sampled: 04 MAR 99

Prepared: 09 MAR 99

Received: 04 MAR 99

Analyzed: 11 MAR 99

Dilution Factor: 100

Parameter	Result	Units	Reporting Limit	Qualifier
Diesel Fuel	ND	ug/L	5000	o
Unknown hydrocarbon	170000	ug/L	5000	I
Surrogate	Recovery		Acceptable Range	
o-Terphenyl	ND %		73 - 134	H

Note 1 = The hydrocarbon patten 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.

Note H = Spiked analyte not detected because of required sample dilution.

Note o = Reporting limit(s) raised due to high level of analyte present in sample.

ND = Not Detected

Reported By: Cindy Jervi

Approved By: Emily Uebelhoer

The cover letter is an integral part of this report.

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Total Petroleum Hydrocarbons by GC/FID (Triregional)
Method TPH-D-TRIREGIONAL

Client Name: Geraghty & Miller, Inc.

Client ID: OW-1

LAB ID: 304494-0007-SA

Matrix: AQUEOUS

Authorized: 04 MAR 99

Sampled: 04 MAR 99

Prepared: 09 MAR 99

Received: 04 MAR 99

Analyzed: 12 MAR 99

Dilution Factor: 20

Parameter	Result	Units	Reporting Limit	Qualifier
Diesel Fuel	ND	ug/L	1000	o
Unknown hydrocarbon	31000	ug/L	1000	1
Surrogate	Recovery		Acceptable Range	
o-Terphenyl	ND %		73 - 134	H

Note 1 = 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.

Note H = Spiked analyte not detected because of required sample dilution.

Note o = Reporting limit(s) raised due to high level of analyte present in sample.

ND = Not Detected

Reported By: Cindy Jervi

Approved By: Emily Uebelhoer

The cover letter is an integral part of this report.

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Total Petroleum Hydrocarbons by GC/FID (Triregional)
Method TPH-D-TRIREGIONAL

Client Name: Geraghty & Miller, Inc.
Client ID: OW-2
LAB ID: 304494-0008-SA
Matrix: AQUEOUS
Authorized: 04 MAR 99

Sampled: 04 MAR 99
Prepared: 09 MAR 99

Received: 04 MAR 99
Analyzed: 12 MAR 99

Dilution Factor: 5.0

Parameter	Result	Units	Reporting Limit	Qualifier
Diesel Fuel	ND	ug/L	250	o
Unknown hydrocarbon	6400	ug/L	250	i
Surrogate	Recovery		Acceptable Range	
o-Terphenyl	ND %		73 - 134	H

Note 1 = The hydrocarbon patten 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.

Note H = Spiked analyte not detected because of required sample dilution.

Note o = Reporting limit(s) raised due to high level of analyte present in sample.

ND = Not Detected

Reported By: Cindy Jervi

Approved By: Emily Uebelhoer

The cover letter is an integral part of this report.

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QC LOT ASSIGNMENT REPORT
Hydrocarbon Work Cell

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (LCS/BLANK)
304494-0001-SA	AQUEOUS	TPH-D-TR-A	09 MAR 99-11R	09 MAR 99-11R
304494-0002-SA	AQUEOUS	TPH-D-TR-A	09 MAR 99-11R	09 MAR 99-11R
304494-0003-SA	AQUEOUS	TPH-D-TR-A	09 MAR 99-11R	09 MAR 99-11R
304494-0004-SA	AQUEOUS	TPH-D-TR-A	09 MAR 99-11R	09 MAR 99-11R
304494-0005-SA	AQUEOUS	TPH-D-TR-A	09 MAR 99-11R	09 MAR 99-11R
304494-0007-SA	AQUEOUS	TPH-D-TR-A	09 MAR 99-11R	09 MAR 99-11R
304494-0008-SA	AQUEOUS	TPH-D-TR-A	09 MAR 99-11R	09 MAR 99-11R



METHOD BLANK REPORT
Hydrocarbon Work Cell
Project: 304494

Test: TPH-D-TR-A
Method: TPH-D-TRIREGIONAL
Matrix: AQUEOUS
QC Lot: 09 MAR 99-11R
Analyzed: 11 MAR 99

Total Petroleum Hydrocarbons by GC/FID (Triregional)

QC Run: 09 MAR 99-11R
Time: 08:11

Analyte	Result	Units	Reporting Limit	Qualifier
Diesel Fuel	ND	ug/L	50	
Unknown hydrocarbon	ND	ug/L	50	
Surrogate	% Recovery	Acceptable Range		
o-Terphenyl	93	73 -134		

ND = Not Detected



DUPLICATE CONTROL SAMPLE REPORT
Hydrocarbon Work Cell
Project: 304494

Category: TPH-D-TR-A Petroleum Hydrocarbons (Diesel), Tri-Regional
Testcode: TPH-D-TR-A Method: TPH-D-TRIREGIONA
Matrix: AQUEOUS Concentration Units: ug/L
QC Lot: 09 MAR 99-EIR Analyzed Date: 11 MAR 99 Time: 09:12

Analyte	-----Concentration----- Spiked	-----Measured-----		Accuracy (%)		Limits	Precision (RPD)	
		DCS1	DCS2	DCS1	DCS2		DCS Limit	Limit
Diesel Fuel	300	252	262	84	87	57-112	3.8	23
Surrogate								
o-Terphenyl	40.0	39.8	41.4	99	103	73-134		

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