ARCADIS GERAGHTY & MILLER

ENVIRONMENTAL PROTECTION

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

554

WESTERN REGION
ENVIRONMENTAL

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

Richmond, California,
21 February 2000

Dear Mr. Chan:

Contact:
David Gomes

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 third quarter 1999 at the Former Penske Truck Leasing Facility at 725 Julie Ann Way, Oakland.

Extension:
(510) 233-3200

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

Sincerely,

ARCADIS Geraghty & Miller, Inc.

David Gomes
Staff Engineer/Project Manager

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

Our ref.:
Project No. RC000321.0002/aclt999

Results of Quarterly Groundwater Monitoring
Third 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 REPORT

Prepared December 3, 1999

ARCADIS GERAGHTY & MILLER

ARCADIS Geraghty & Miller, Inc.
1050 Marina Way South
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Tel 510 233 3200
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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

WESTERN REGION
ENVIRONMENTAL

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

Richmond,
December 21, 1999

Contact:
Paul V. Hehn

Extension:
510 233 3200

Dear Mr. Saut:

This report presents the results of the third quarter 1999 quarterly groundwater monitoring and sampling activities performed on September 22, 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 a 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.

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 provide information related to biodegradation activity.

In order to provide a baseline of DO and redox information, these parameters were measured and evaluated for all available wells during the fourth quarter 1998 sampling event. Measurements were made at 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 second quarter 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 (first quarter 1999) quarterly event report. The measurements for DO 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 estimated 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 third quarter groundwater monitoring was performed on September 22, 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, and MW-7 in accordance with the CZ remedial approach monitoring and sampling plan referenced above. Monitoring Well MW-5 was scheduled to be measured during the quarterly event but the well was covered by a pile of gravel during the

sampling event resulting from operations by the current property lessor. Thus, well MW-5 was inaccessible and not measured.

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 is being sampled on a semi-annual basis and was previously sampled during the second quarter of 1999. Well MW-5 will be sampled again during the fourth quarter of 1999.

The ACHCSA also requested that all wells be monitored for DO and redox. Both parameters were measured during this quarter. Wells with 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 exceeds the four volume purge requirements by 15% to 50%. During the current event, it was estimated that 800 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.

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 6.21 feet (Monitoring Well MW-4) to 7.40 feet (Monitoring Well MW-2) below the ground surface. A contour map based on the groundwater elevation data collected September 22, 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 September 1999.

The difference in the elevation of the groundwater surface between wells MW-2 and MW-1 is 0.16 feet, producing a hydraulic gradient (slope of the groundwater surface) of approximately 0.002 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 (71 µg/L) and MW-7 (560 µg/L). TPH as diesel was detected in the groundwater samples collected from Monitoring Wells MW-1 (7,300

µg/L), MW-2 (6,400 µg/L), MW-4 (4,000 µg/L), and MW-7 (840,000 µg/L). Benzene was detected in the groundwater samples collected from Monitoring Wells MW-1 (2.4 µg/L) and MW-7 (54 µg/L) (Figure 3). All other BTEX constituent results are presented in Table 2. MTBE was not detected in any of the groundwater samples analyzed. 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 (54 µg/L). Since the benzene concentration detected in Guard Well MW-7 was below the compliance level during the previous quarterly sampling event (2nd quarter 1999), downgradient well MW-8 was not sampled during the current second quarter sampling event. Sampling of well MW-8 is currently 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 groundwater samples collected from any of the wells sampled during the third quarter 1999 sampling event. Decreases were detected in the groundwater samples collected from wells MW-1 (from 960 µg/L to 71 µg/L), MW-2 (from 81 µg/L to ND), MW-4 (from 210 µg/L to ND), and MW-7 (from 820 µg/L to 560 µg/L).

Increases in TPH as diesel concentrations were detected in the samples collected from wells MW-2 (from 1,900 µg/L to 6,400 µg/L) and MW-4 (from 2,500 µg/L to 4,000 µg/L). Decreases were detected in the groundwater samples collected from wells MW-1 (from 82,000 µg/L to 7,300 µg/L) and MW-7 (from 1,300,000 µg/L to 840,000 µg/L).

Increases in benzene concentrations were detected in the samples collected from well MW-7 (from 34 µg/L to 54 µg/L). Decreases in benzene concentrations were detected in the groundwater samples collected from well MW-1 (from 23 µg/L to 2.4 µg/L) and MW-4 (from 0.70 µg/L to ND). Benzene was ND in well MW-2.

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.

Additional Groundwater Biodegradation Monitoring Results

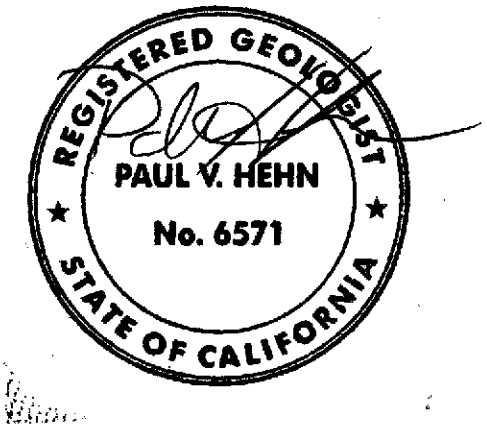
The results of this additional sampling and the monitoring of biodegradation parameters appear to indicate that active biodegradation is occurring beneath the facility. However, based on the low DO and redox results, the biodegradation of the petroleum hydrocarbons in the area of the former UST excavation,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

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

Dennis P. Maslonkowski, CHg
Principal Hydrogeologist



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 - Third Quarter 1999
Figure 3	Benzene Concentrations - Third Quarter 1999
Figure 4	Biodegradation Parameter Results - Third Quarter 1999
Attachment 1	Copies of Certified Laboratory Reports and Chain-of-Custody Documentation

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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.

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———. 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 & 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 pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)	Redox (mv)	Casing Diameter (inches)
MW-1	2-Oct-90	9.76	5.42	-4.34	37.28	58.56	47	6.71	87.5	5,280			4
	28-Feb-91	8.54		-3.12	33.58	65.00	70	6.30	66.0	9,700			
	25-Mar-91	7.35		-1.93	33.50	71.00	75	6.50	64.0	7,200			
	1-May-91	7.91		-2.49	33.70	67.00	51	6.20	65.0	3,500			
	5-Aug-91	8.63		-3.21	NM	51.00	68	NM	63.6	7,690			
	23-Oct-91	9.00		-3.58	33.77	67.00	67	9.40	64.2	7,470			
	6-Jan-92	8.52		-3.10	33.87	65.00	69	9.40	63.2	6,640			
	20-Jul-92	7.94		-2.52	33.95	65.02	66	7.20	65.7	6,410			
	23-Oct-92	8.62		-3.20	33.57	64.80	60	7.50	69.8	1,930			
	4-Feb-93	6.55	5.43 (c)	-1.12	33.84	70.96	71	8.02	65.0	9,520			
	8-Apr-93	6.37		-0.94	33.80	71.32	65	6.60	66.7	>2,000			
	6-Aug-93	7.39		-1.96	33.88	68.67	69	7.22	68.1	5,890			
	28-Oct-93	7.85		-2.42	33.80	67.48	68	7.00	68.3	5,910			
	1-Feb-94	7.25		-1.82	33.99	69.52	70	7.63	63.2	7,610			
	12-Sep-94	6.75		-1.32	33.95	70.72	70	6.90	75.8	7,950			
	23-Nov-94	6.13		-0.70	33.93	72.28	73	6.10	66.2	>2,000			
	21-Feb-95	6.00		-0.57	34.00	55.44	56	7.36	70	890			
	23-May-95	6.04		-0.61	34.00	54.52	56	7.11	66.2	5,920			
	16-Aug-95	6.03		-0.60	34.00	55.94	56	7.27	69.3	5,510			
	21-Nov-95	6.90		-1.47	34.00	52.85	54	7.19	67.8	5,720			
	13-Feb-96	5.18		0.25	33.87	74.59	>75	7	71.2	6,070			
	13-May-96	6.10		-0.67	NM	72.20 (f)	>73	6.5	76.4	14,370			
	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	
	22-Sep-99	**6.47**		**-1.04**	**NM**	**71.57 (f)**	**>72**	**6.68**	**67.8**	**5,510**	**0.70**	**-317**	

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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 pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)	Redox (mv)	Casing Diameter (inches)
MW-2	2-Oct-90	10.38	6.21	-4.17	32.97	48.07	47	6.92	86.4	5,460			4
	28-Feb-91	9.19		-2.98	29.39	53.00	55	6.60	64.0	9,000			
	25-Mar-91	7.95		-1.74	29.39	57.00	70	6.60	63.0	6,400			
	1-May-91	8.58		-2.37	29.60	55.00	50	6.20	64.0	3,000			
	5-Aug-91	9.33		-3.12	NM	40.00	54	NM	65.1	5,680			
	23-Oct-91	9.57		-3.36	29.35	52.00	53	7.60	65.4	7,970			
	6-Jan-92	9.08		-2.87	29.50	53.00	53	9.18	62.8	6,990			
	20-Jul-92	8.60		-2.39	29.45	54.21	55	6.50	65.2	6,690			
	23-Oct-92	9.33		-3.12	29.18	51.60	55	7.20	69.8	1,900			
	4-Feb-93	7.17	6.20 (c)	-0.97	29.37	57.72	55	8.25	64.0	10,310			
	8-Apr-93	6.95		-0.75	29.32	58.16	60	6.90	66.7	>2,000			
	6-Aug-93	8.05		-1.85	29.33	55.33	66.5	7.26	66.4	6,250			
	28-Oct-93	8.50		-2.30	29.43	54.40	55	7.08	71.2	6,780			
	1-Feb-94	7.87		-1.67	29.54	56.32	57	8.35	62.4	8,250			
	12-Sep-94	7.42		-1.22	29.45	57.24	66	(e)	69.9	8,130			
	22-Nov-94	6.75		-0.55	29.50	59.15	60	6.8	67.6	>2,000			
	21-Feb-95	6.20		0.00	30.00	47.12	48	6.97	64	1,050			
	23-May-95	6.10		0.10	30.00	46.60	48	7.18	70.3	7,710			
	16-Aug-95	6.69		-0.49	30.00	46.62	46	7.42	65	6,790			
	21-Nov-95	7.62		-1.42	30.00	43.64	45	7.30	67.6	7,250			
	13-Feb-96	5.81		0.39	29.47	61.51	>62	7	71.8	2,890			
	13-May-96	6.40		-0.20	NM	59.98 (f)	>60	5.5	74.4	860			
	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	17.50	-212	
	3-Jun-99	6.79		-0.59	29.20	58.26	>59	7.56	68.3	1,210	0.80	-222	
	22-Sep-99	**7.40**		**-1.20**	**29.32**	**56.99**	**>57**	**7.21**	**70.7**	**1,027**	**1.04**	**-64**	

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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 pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)	Redox (mv)	Casing Diameter (inches)
MW-3	2-Oct-90	10.38	6.10	-4.28	37.08	56.82	54	6.89	88.4	639			4
	28-Feb-91	9.45		-3.35	31.61	58.00	60	6.10	66.0	1,020			
	25-Mar-91	7.98		-1.88	31.60	70.00	75	6.40	65.0	8,200			
	1-May-91	8.58		-2.48	33.70	65.00	50	6.40	67.0	4,100			
	5-Aug-91	9.26		-3.16	NM	50.00	67	NM	64.1	6,190			
	23-Oct-91	9.60		-3.50	33.48	66.00	66	7.30	67.3	8,430			
	6-Jan-92	9.08		-2.98	33.66	64.00	64	9.98	61.7	7,010			
	20-Jul-92	8.59		-2.49	33.76	65.44	66	6.80	66.0	7,540			
	23-Oct-92	9.30		-3.20	33.47	63.40	65	7.50	71.6	1,800			
	4-Feb-93	7.19	6.10 (c)	-1.09	33.65	68.79	65	8.29	64.0	10,290			
	8-Apr-93	6.98		-0.88	33.55	69.08	72	6.90	68.2	>2,000			
	6-Aug-93	8.01		-1.91	33.55	66.40	56 (d)	7.43	67.3	6,490			
	28-Oct-93	8.45		-2.35	33.60	65.40	66	7.02	72.0	6,590			
	1-Feb-94	8.03		-1.93	33.74	66.84	67	8.32	63.3	8,400			
	12-Sep-94	7.39		-1.29	33.70	68.40	70	7.73	68.7	8,030			
	22-Nov-94	6.76		-0.66	33.75	70.17	70	6.60	65.8	>2,000			
	21-Feb-95	6.36		-0.26	33.50	53.74	54	6.99	85.4	880			
	23-May-95	6.48		-0.38	33.50	52.69	54	7.25	68.7	6,060			
	16-Aug-95	6.63		-0.53	33.50	53.74	54	7.53	66.1	5,390			
	21-Nov-95	7.51		-1.41	33.50	50.68	52	7.34	67.4	5,730			
	13-Feb-96	5.91		0.19	33.69	72.24	>73	7	71.5	6,790			
	13-May-96	6.36		-0.26	NM	71.06 (f)	>72	6.5	76.7	14,360			
	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	17.40	159	
	3-Jun-99	6.70		-0.60	33.60	69.94	>70	NS	NS	NS	0.80	153	
	22-Sep-99	**7.28**		**-1.18**	**33.45**	**NM**	**NM**	**NM**	**NM**	**NM**	**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 pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)	Redox (mv)	Casing Diameter (inches)
MW-4	4-Feb-93	6.68	5.18 (o)	-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	NM	72.82 (f)	>73	6.60	67.9	9,810	0.90	-168.5	
	22-Sep-99	**6.21**		**-1.03**	**33.28**	**70.38**	**>71**	**6.09**	**66.6**	**16,010**	**1.06**	**-96**	

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 pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)	Redox (mv)	Casing Diameter (Inches)
MW-5	4-Feb-93	8.94	4.71 (o)	-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	16.40	213.0	
	3-Jun-99	5.20		-0.49	31.28	67.80	>68	7.27	69.4	4,310	0.90	70.7	
	22-Sep-99	**NM (g)**		**NM (g)**	**NM (g)**	**NM (g)**	**NM (g)**	**NM (g)**	**NM (g)**	**NM (g)**	**NM (g)**	**NM (g)**	

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 pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)	Redox (mv)	Casing Diameter (inches)
MW-6	12-Sep-94	6.56	5.37	-1.19	24.85	47.55	41 (d)	(e)	71.2	12,970			4
	22-Nov-94	6.04		-0.67	24.88	48.98	50	6.70	66.4	>2,000			
	21-Feb-95	NS		NS	NS	NS	NS	NS	NS	NS			
	23-May-95	5.32		0.05	24.70	NS	NS	NS	NS	NS			
	16-Aug-95	5.97		-0.60	24.70	NS	NS	NS	NS	NS			
	21-Nov-95	6.78		-1.41	24.70	NS	NS	NS	NS	NS			
	13-Feb-96	5.14		0.23	24.71	NS	NS	NS	NS	NS			
	13-May-96	5.64		-0.27	NM	NS	NS	NS	NS	NS			
	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	17.8	346	
	3-Jun-99	5.90		-0.53	24.65	NS	NS	NS	NS	NS	4.4	264	
	22-Sep-99	**6.48**		**-1.11**	**24.66**	**NM**	**NM**	**NM**	**NM**	**NM**	**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 pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)	Redox (mv)	Casing Diameter (Inches)
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	
	22-Sep-99	**7.05**		**-1.67**	**NM**	**59.67 (f)**	**>60**	**6.14**	**67.1**	**4,490**	**0.97**	**-337**	

ARCADIS GERAGHTY & MILLER

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

Well	Date	Depth to Water (a) (feet)	Top of Casing Elevation (feet)	Top of Water Elevation (feet)	Measured Depth of Well (a) (feet)	Calculated Purge Volume (b) (gallons)	Actual Purge Volume (gallons)	Field Measurements pH	Temp. (°F)	SC (µS/cm)	DO (mg/L)	Redox (mv)	Casing Diameter (Inches)
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	16.40	179	
	3-Jun-99	5.39		0.05	25.68	52.75	>53	7.01	60.5	5,530	0.90	116.7	
	22-Sep-99	**7.15**		**-1.71**	**25.62**	**48.04**	**>49**	**6.14**	**66.6**	**7,130**	**0.61**	**-11**	
OW-1	4-Mar-99	4.58	5.09	NM	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	NM	14.00	24.44	25.00	7.52	57.9	2,570	16.50	44	4

Notes appear on the follwong page.

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

(a) Measured from top of PVC casing.
(b) Based on four casing volumes.
(c) All well elevations resurveyed to site benchmark on February 10, 1993.
(d) Well went dry during purging.
(e) No reading - instrument malfunction.
(f) Purge volume estimated using well depth-to-bottom measurements from 4th quarter 1998.
(g) Well inaccessible, covered with rock.

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 & 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 (ao,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)	--
	22-Sep-99	**71**	**7,300 (y)**	**2.4**	**ND(<0.50)**	**ND(<0.50)**	**1.63**	**ND(<5.0)**	--

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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)
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)	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)	--
	22-Sep-99	**ND(<50)**	**6,400 (y, ab)**	**ND(<0.50)**	**ND(<0.50)**	**ND(<0.50)**	**ND(<1.0)**	**ND(<5.0)**	--

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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 (o) (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	--
	22-Sep-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,
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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 (o) (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	0.80	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)	--
	22-Sep-99	**ND(<50)**	**4,000 (y)**	**ND(<0.50)**	**ND(<0.50)**	**ND(<0.50)**	**ND(<1.0)**	**ND(<5.0)**	--

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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 (o) (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(<0.9)		--
	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)	--
	22-Sep-99	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**

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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-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	--
	22-Sep-99	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	--

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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-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)	--
	3-Jun-99	820 (u,ag)	1,300,000 (al)	34	6.4	1.7	15.8	ND(<5)	--
	22-Sep-99	**560**	**840,000 (y)**	**54**	**1.7**	**7.9**	**17.4**	**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 (o) (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	--
	22-Sep-99	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	**NS**	--
OW-1	4-Mar-99	--	31,000 (ao,ae,y)	--	--	--	--	--	--
OW-2	4-Mar-99	--	6,400 (ai,ae,y)	--	--	--	--	--	--
TB-LB	**22-Sep-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 & 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 & MILLER

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

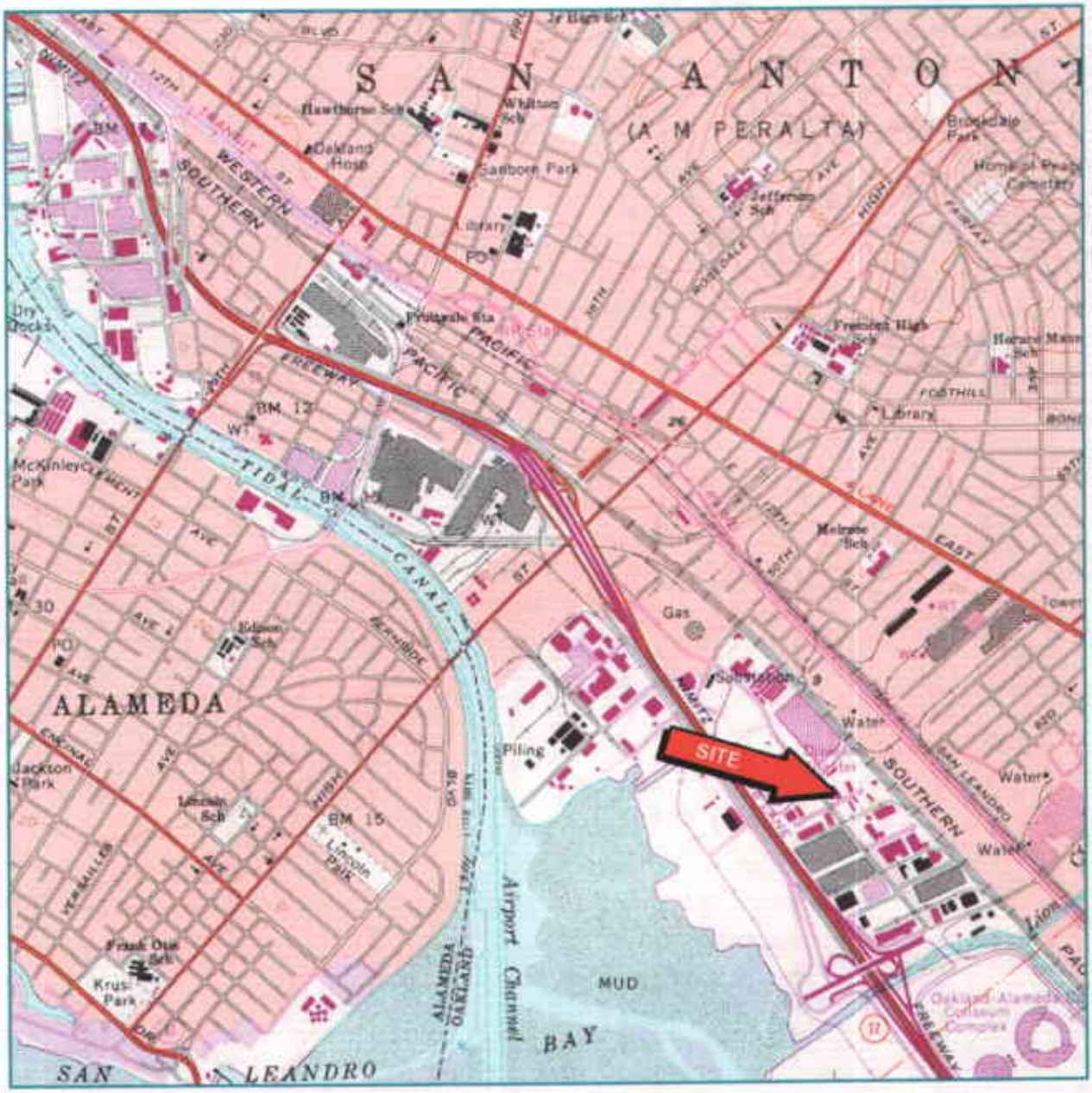
Former Penske Truck Leasing Facility,
725 Julie Ann Way, Oakland, California.

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.
(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.

( ) 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.



SCALE 1:24000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET

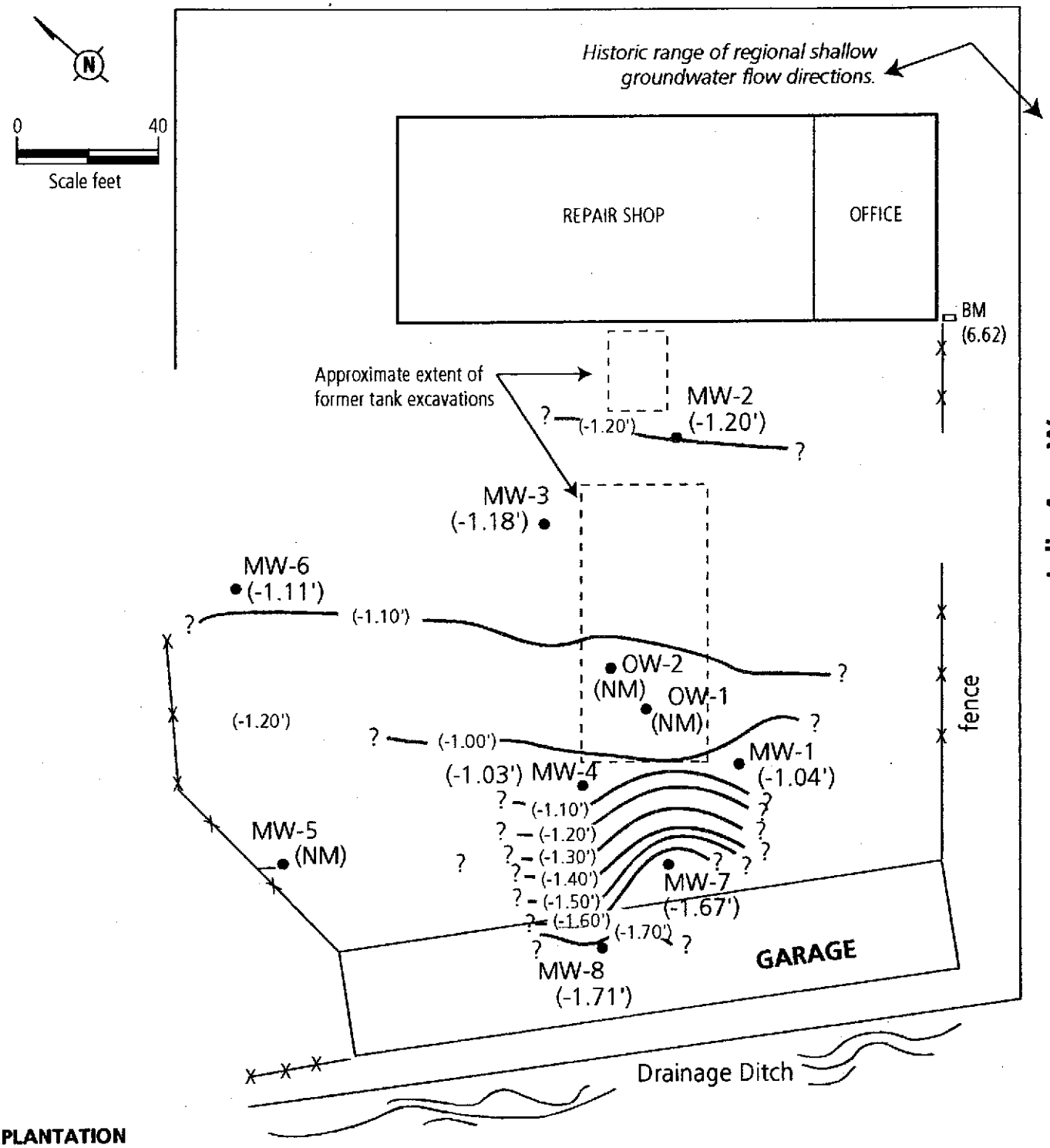
QUADRANGLE LOCATION

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



EXPLANTATION

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).

(-1.71') Groundwater elevation (feet) relative to benchmark measured September 22,1999

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

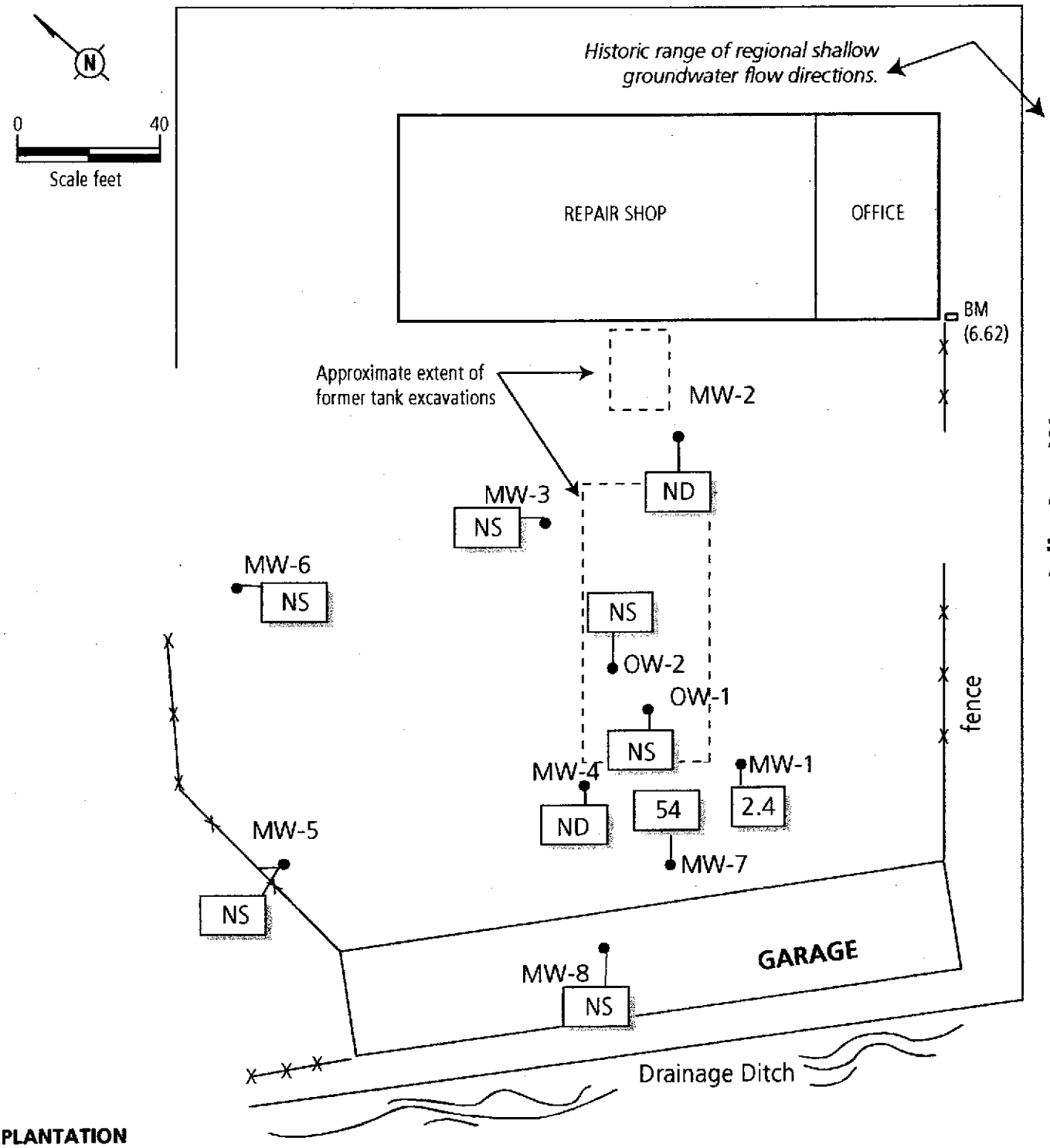
ARCADIS GERAGHTY&MILLER

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

RC000019.0010

FIGURE

2



EXPLANTATION

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

54 Benzene concentrations (in µg/L) from groundwater samples collected September 22, 1999

NS Well not sampled or monitored during this quarterly event.

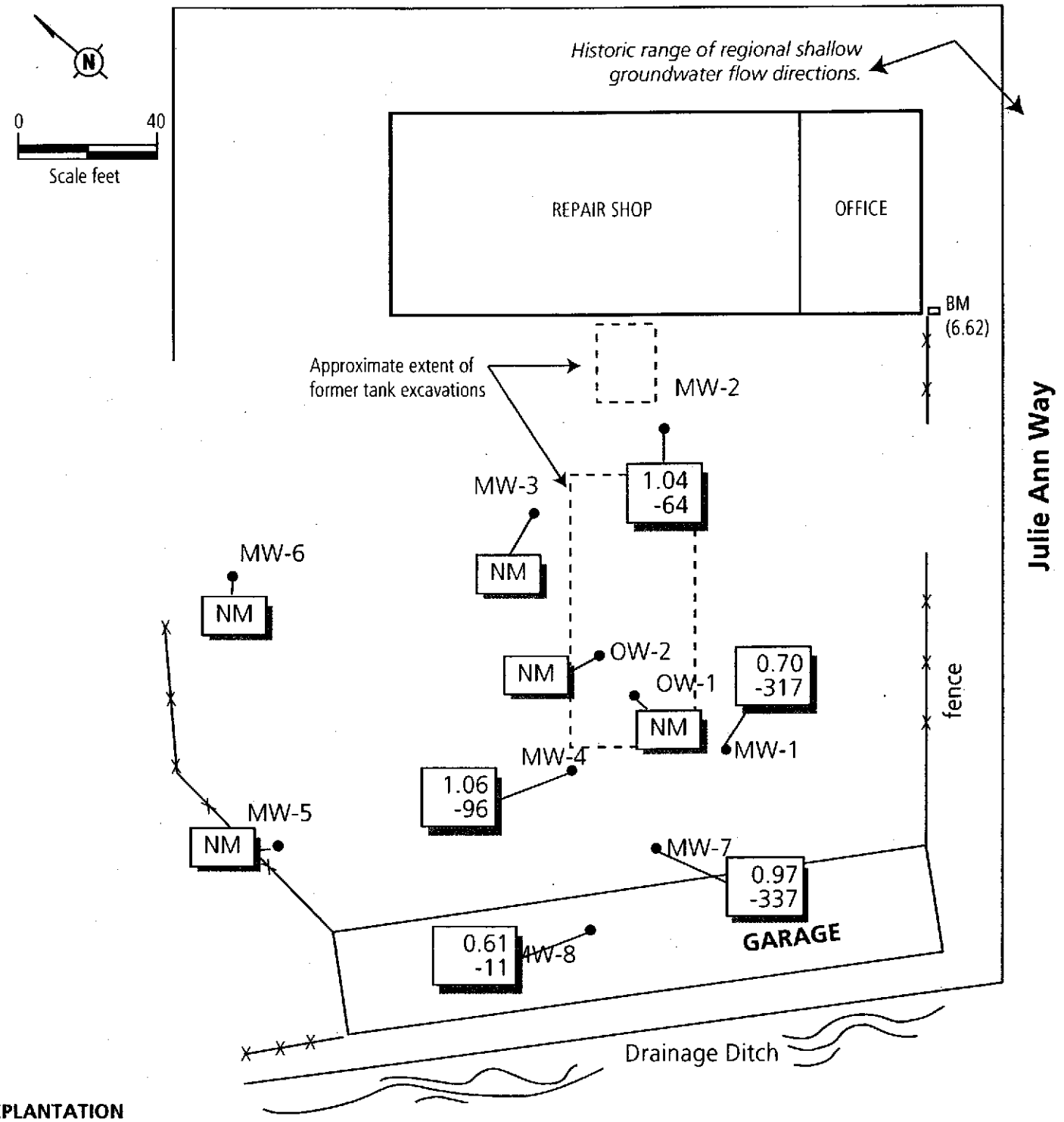
ARCADIS GERAGHTY&MILLER

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

RC000019.0010

FIGURE

3



EXPLANTATION

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).

0.97 / -212 — Dissolved Oxygen (DO) mg/L; Oxygen Reduction Potential (Redox) mw Measured September 22, 1999

NM — Well not measured during this quarterly event

ARCADIS GERAGHTY&MILLER

BIODEGRADATION PARAMETER RESULTS
Third 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

October 27, 1999

QUANTERRA INCORPORATED PROJECT NUMBER: G9I250143
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 samples received under chain of custody by Quanterra Incorporated on 9/23/99. These samples are associated with your Penske project.

The case narrative is an integral part of this report.

Preliminary results were sent via facsimile on October 22, 1999.

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

Sincerely,

Bonnie McNeill

Bonnie J. McNeill
Project Manager

Quanterra

TABLE OF CONTENTS

QUANTERRA INCORPORATED PROJECT NUMBER G9I250143

Quanterra

CASE NARRATIVE

QUANTERRA INCORPORATED PROJECT NUMBER G9I250143

General Comments

Samples were received at 6 degrees Centigrade.

WATER, 8015 MOD, Diesel

Sample surrogate recoveries were affected by the level of hydrocarbons present in the sample.

There were no other anomalies associated with this project.

Quanterra

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.

Quanterra

Sample Summary
G9I250143

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
D2X2F	1	MW-1	9/22/99 10:10 AM	9/23/99 12:05 PM
D2X2N	2	MW-2	9/22/99 12:20 PM	9/23/99 12:05 PM
D2X2Q	3	MW-4	9/22/99 09:30 AM	9/23/99 12:05 PM
D2X2T	4	MW-7	9/22/99 11:35 AM	9/23/99 12:05 PM
D2X2W	5	TB-LB	9/22/99	9/23/99 12:05 PM

Notes(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 no 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 weigh

ARCADIS GERAGHTY & MILLER

Laboratory Task Order No./P.O. No. _____

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Project Number/Name RC000019.0010

Project Location Penske/Oakland

Laboratory Quantera

Project Manager PVH

Sampler(s)/Affiliation RK

Sample ID/Location	Matrix	Date/Time Sampled	Lab ID	ANALYSIS / METHOD / SIZE: TPH-G/BTEX/MTBE	TPH-D					Remarks	Total
MW-1	L	9-22-99 1010		X	X						3 4
MW-2		1120		X	X						3 4
MW-4		930		X	X						3 4
MW-7		1135		X	X						3 4
~~MW-8~~	~~—~~	~~—~~		~~X~~	~~X~~						~~3 4~~
TB-LB	V										1

RECEIVED IN GOOD CONDITION UNDER COC

SEP 23 1999

INI:

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

Total No. of Bottles/ Containers: 17

				Seal Intact?
Relinquished by: [signature]	Organization: ARCADIS GERAGHTY & MILLER	Date 9/23/99	Time 1205	
Received by: [signature]	Organization: QES	Date 9/23/99	Time 1205	(Yes) No N/A
Relinquished by: _____	Organization: _____	Date / /	Time _____	Seal Intact?
Received by: _____	Organization: _____	Date / /	Time _____	Yes No N/A

Special Instructions/Remarks: _____

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

WATER, CA LUFT

Gasoline/BTEX + MTBE

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-1

GC Volatiles

Lot-Sample #...: G9I250143-001	**Work Order #...:** D2X2F102	**Matrix.....:** WATER	
Date Sampled...: 09/22/99	**Date Received..:** 09/23/99		
Prep Date.....: 10/05/99	**Analysis Date..:** 10/05/99		
Prep Batch #...: 9284490			
Dilution Factor: 1	**Method.....:** DHS CA LUFT		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
TPH (as Gasoline)	**71**	**50**	**ug/L**
Unknown Hydrocarbon	ND	50	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	105	(70 - 130)

NOTE(S):

The gasoline pattern appears degraded. Pattern does not match gasoline standard pattern.

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-1

GC Volatiles

Lot-Sample #...: G9I250143-001	**Work Order #...:** D2X2F103	**Matrix.....:** WATER	
Date Sampled...: 09/22/99	**Date Received..:** 09/23/99		
Prep Date.....: 10/05/99	**Analysis Date..:** 10/05/99		
Prep Batch #...: 9284491			
Dilution Factor: 1	**Method.....:** DHS CA LUFT		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	**2.4**	**0.50**	**ug/L**
Ethylbenzene	ND	0.50	ug/L
Toluene	ND	0.50	ug/L
m-Xylene & p-Xylene	**1.1**	**1.0**	**ug/L**
o-Xylene	**0.53**	**0.50**	**ug/L**
Methyl tert-butyl ether	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene	93	(70 - 130)

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-2

GC Volatiles

Lot-Sample #...: G9I250143-002	**Work Order #...:** D2X2N102		**Matrix.....:** WATER
Date Sampled...: 09/22/99	**Date Received..:** 09/23/99		
Prep Date.....: 10/05/99	**Analysis Date..:** 10/06/99		
Prep Batch #...: 9284490			
Dilution Factor: 1	**Method.....:** DHS CA LUFT		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	106	(70 - 130)

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-2

GC Volatiles

Lot-Sample #...: G9I250143-002	**Work Order #...:** D2X2N103	**Matrix.....:** WATER
Date Sampled...: 09/22/99	**Date Received..:** 09/23/99	
Prep Date.....: 10/05/99	**Analysis Date..:** 10/06/99	
Prep Batch #...: 9284491		
Dilution Factor: 1	**Method.....:** DHS CA LUFT	

PARAMETER	RESULT	REPORTING LIMIT	UNITS
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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene	105	(70 - 130)

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-4

GC Volatiles

Lot-Sample #...:	G9I250143-003	**Work Order #...:**	D2X2Q102	**Matrix.....:**	WATER
Date Sampled...:	09/22/99	**Date Received..:**	09/23/99		
Prep Date.....:	10/05/99	**Analysis Date..:**	10/06/99		
Prep Batch #...:	9284490				
Dilution Factor:	1	**Method.....:**	DHS CA LUFT		

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	104	(70 - 130)

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-4

GC Volatiles

Lot-Sample #...: G9I250143-003 **Work Order #...:** D2X2Q103 **Matrix.....:** WATER
Date Sampled...: 09/22/99 **Date Received..:** 09/23/99
Prep Date.....: 10/05/99 **Analysis Date..:** 10/06/99
Prep Batch #...: 9284491
Dilution Factor: 1 **Method.....:** DHS CA LUFT

PARAMETER	RESULT	REPORTING LIMIT	UNITS
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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene	91	(70 - 130)

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-7

GC Volatiles

Lot-Sample #...: G9I250143-004	**Work Order #...:** D2X2T102	**Matrix.....:** WATER	
Date Sampled...: 09/22/99	**Date Received..:** 09/23/99		
Prep Date.....: 10/05/99	**Analysis Date..:** 10/05/99		
Prep Batch #...: 9284490			
Dilution Factor: 1	**Method.....:** DHS CA LUFT		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
TPH (as Gasoline)	**560**	**50**	**ug/L**
Unknown Hydrocarbon	ND	50	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	101	(70 - 130)

NOTE(S):

The gasoline pattern appears degraded. Pattern does not match standard pattern.

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-7

GC Volatiles

Lot-Sample #...: G9I250143-004	**Work Order #...:** D2X2T103	**Matrix.....:** WATER	
Date Sampled...: 09/22/99	**Date Received..:** 09/23/99		
Prep Date.....: 10/05/99	**Analysis Date..:** 10/05/99		
Prep Batch #...: 9284491			
Dilution Factor: 1	**Method.....:** DHS CA LUFT		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Benzene	**54**	**0.50**	**ug/L**
Ethylbenzene	**7.9**	**0.50**	**ug/L**
Toluene	**1.7**	**0.50**	**ug/L**
m-Xylene & p-Xylene	**12**	**1.0**	**ug/L**
o-Xylene	**5.4**	**0.50**	**ug/L**
Methyl tert-butyl ether	ND	5.0	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene	91	(70 - 130)

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: TB-LB

GC Volatiles

Lot-Sample #...: G9I250143-005 **Work Order #...:** D2X2W101 **Matrix.....:** WATER
Date Sampled...: 09/22/99 **Date Received..:** 09/23/99
Prep Date.....: 10/05/99 **Analysis Date..:** 10/05/99
Prep Batch #...: 9284490
Dilution Factor: 1 **Method.....:** DHS CA LUFT

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	102	(70 - 130)

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: TB-LB

GC Volatiles

Lot-Sample #...: G9I250143-005 **Work Order #...:** D2X2W102 **Matrix.....:** WATER
Date Sampled...: 09/22/99 **Date Received..:** 09/23/99
Prep Date.....: 10/05/99 **Analysis Date..:** 10/05/99
Prep Batch #...: 9284491
Dilution Factor: 1 **Method.....:** DHS CA LUFT

PARAMETER	RESULT	REPORTING LIMIT	UNITS
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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene	93	(70 - 130)

Quanterra

QC DATA ASSOCIATION SUMMARY

G9I250143

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	DHS CA LUFT		9284490	
	WATER	DHS CA LUFT		9284491	
002	WATER	DHS CA LUFT		9284490	
	WATER	DHS CA LUFT		9284491	
003	WATER	DHS CA LUFT		9284490	
	WATER	DHS CA LUFT		9284491	
004	WATER	DHS CA LUFT		9284490	
	WATER	DHS CA LUFT		9284491	
005	WATER	DHS CA LUFT		9284490	
	WATER	DHS CA LUFT		9284491	

Quanterra

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G9I250143 **Work Order #...:** D3HVG101 **Matrix.....:** WATER
MB Lot-Sample #: G9J110000-490

Prep Date.....: 10/05/99
Analysis Date..: 10/05/99 **Prep Batch #...:** 9284490
Dilution Factor: 1

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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	98	(70 - 130)

NOTE(S):

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

Quanterra

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: G9I250143 **Work Order #...:** D3HVH101 **Matrix.....:** WATER
MB Lot-Sample #: G9J110000-491

Prep Date.....: 10/05/99
Analysis Date..: 10/05/99 **Prep Batch #...:** 9284491
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene	89	(70 - 130)

NOTE(S):

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

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: G9I250143 **Work Order #...:** D3HVG102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G9J110000-490 D3HVG103-LCSD
Prep Date.....: 10/05/99 **Analysis Date..:** 10/05/99
Prep Batch #...: 9284490
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Gasoline)	**1000**	**1010**	**ug/L**	**101**		**DHS CA LUFT**
	1000	**999**	**ug/L**	**100**	**1.5**	**DHS CA LUFT**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	118	(70 - 130)
	118	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: G9I250143 **Work Order #...:** D3HVH102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G9J110000-491 D3HVH103-LCSD
Prep Date.....: 10/05/99 **Analysis Date..:** 10/05/99
Prep Batch #...: 9284491
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Benzene	**10.0**	**9.52**	**ug/L**	**95**		**DHS CA LUFT**
	10.0	**9.49**	**ug/L**	**95**	**0.29**	**DHS CA LUFT**
Ethylbenzene	**10.0**	**9.52**	**ug/L**	**95**		**DHS CA LUFT**
	10.0	**9.47**	**ug/L**	**95**	**0.46**	**DHS CA LUFT**
Methyl tert-butyl ether	**10.0**	**9.23**	**ug/L**	**92**		**DHS CA LUFT**
	10.0	**9.37**	**ug/L**	**94**	**1.5**	**DHS CA LUFT**
Toluene	**10.0**	**9.62**	**ug/L**	**96**		**DHS CA LUFT**
	10.0	**9.51**	**ug/L**	**95**	**1.1**	**DHS CA LUFT**
m-Xylene & p-Xylene	**20.0**	**19.1**	**ug/L**	**96**		**DHS CA LUFT**
	20.0	**19.0**	**ug/L**	**95**	**0.34**	**DHS CA LUFT**
o-Xylene	**10.0**	**9.58**	**ug/L**	**96**		**DHS CA LUFT**
	10.0	**9.52**	**ug/L**	**95**	**0.68**	**DHS CA LUFT**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene	93	(70 - 130)
	91	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: G9I250143 **Work Order #...:** D3HVG102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G9J110000-490 D3HVG103-LCSD
Prep Date.....: 10/05/99 **Analysis Date..:** 10/05/99
Prep Batch #...: 9284490
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Gasoline)	**101**	**(70 - 130)**			**DHS CA LUFT**
	100	**(70 - 130)**	**1.5**	**(0-35)**	**DHS CA LUFT**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	118	(70 - 130)
	118	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: G9I250143 **Work Order #...:** D3HVH102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G9J110000-491 D3HVH103-LCSD
Prep Date.....: 10/05/99 **Analysis Date..:** 10/05/99
Prep Batch #...: 9284491
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**95**	**(70 - 130)**			**DHS CA LUFT**
	95	**(70 - 130)**	**0.29**	**(0-35)**	**DHS CA LUFT**
Ethylbenzene	**95**	**(70 - 130)**			**DHS CA LUFT**
	95	**(70 - 130)**	**0.46**	**(0-35)**	**DHS CA LUFT**
Methyl tert-butyl ether	**92**	**(70 - 130)**			**DHS CA LUFT**
	94	**(70 - 130)**	**1.5**	**(0-35)**	**DHS CA LUFT**
Toluene	**96**	**(70 - 130)**			**DHS CA LUFT**
	95	**(70 - 130)**	**1.1**	**(0-35)**	**DHS CA LUFT**
m-Xylene & p-Xylene	**96**	**(70 - 130)**			**DHS CA LUFT**
	95	**(70 - 130)**	**0.34**	**(0-35)**	**DHS CA LUFT**
o-Xylene	**96**	**(70 - 130)**			**DHS CA LUFT**
	95	**(70 - 130)**	**0.68**	**(0-35)**	**DHS CA LUFT**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene	93	(70 - 130)
	91	(70 - 130)

NOTE(S):

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

Bold print denotes control parameters

Quanterra

WATER, 8015 MOD, Diesel

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-1

GC Semivolatiles

Lot-Sample #...: G9I250143-001	**Work Order #...:** D2X2F101	**Matrix.....:** WATER	
Date Sampled...: 09/22/99	**Date Received..:** 09/23/99		
Prep Date.....: 09/29/99	**Analysis Date..:** 10/20/99		
Prep Batch #...: 9272381			
Dilution Factor: 5	**Method.....:** SW846 8015 MOD		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
TPH (as Diesel)	**7300 Q**	**250**	**ug/L**
Unknown Hydrocarbon	ND	250	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
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.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

The diesel pattern appears degraded.

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-2

GC Semivolatiles

Lot-Sample #...: G9I250143-002	**Work Order #...:** D2X2N101	**Matrix.....:** WATER	
Date Sampled...: 09/22/99	**Date Received..:** 09/23/99		
Prep Date.....: 09/29/99	**Analysis Date..:** 10/20/99		
Prep Batch #...: 9272381			
Dilution Factor: 5	**Method.....:** SW846 8015 MOD		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
TPH (as Diesel)	ND	250	ug/L
Unknown Hydrocarbon	**6400 Q**	**250**	**ug/L**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
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.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

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

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-4

GC Semivolatiles

Lot-Sample #...: G9I250143-003	**Work Order #...:** D2X2Q101	**Matrix.....:** WATER	
Date Sampled...: 09/22/99	**Date Received..:** 09/23/99		
Prep Date.....: 09/29/99	**Analysis Date..:** 10/20/99		
Prep Batch #...: 9272381			
Dilution Factor: 3	**Method.....:** SW846 8015 MOD		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
TPH (as Diesel)	**4000 Q**	**150**	**ug/L**
Unknown Hydrocarbon	ND	150	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	256 *	(66 - 136)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

The diesel pattern appears degraded.

Quanterra

ARCADIS GERAGHTY & MILLER, INC

Client Sample ID: MW-7

GC Semivolatiles

Lot-Sample #...: G9I250143-004	**Work Order #...:** D2X2T101	**Matrix.....:** WATER	
Date Sampled...: 09/22/99	**Date Received..:** 09/23/99		
Prep Date.....: 09/29/99	**Analysis Date..:** 10/21/99		
Prep Batch #...: 9272381			
Dilution Factor: 500	**Method.....:** SW846 8015 MOD		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
TPH (as Diesel)	**840000 Q**	**25000**	**ug/L**
Unknown Hydrocarbon	ND	25000	ug/L

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
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.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

The diesel pattern appears degraded.

Quanterra

QC DATA ASSOCIATION SUMMARY

G9I250143

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	SW846 8015 MOD		9272381	
	WATER	DHS CA LUFT		9284490	
	WATER	DHS CA LUFT		9284491	
002	WATER	SW846 8015 MOD		9272381	
	WATER	DHS CA LUFT		9284490	
	WATER	DHS CA LUFT		9284491	
003	WATER	SW846 8015 MOD		9272381	
	WATER	DHS CA LUFT		9284490	
	WATER	DHS CA LUFT		9284491	
004	WATER	SW846 8015 MOD		9272381	
	WATER	DHS CA LUFT		9284490	
	WATER	DHS CA LUFT		9284491	
005	WATER	DHS CA LUFT		9284490	
	WATER	DHS CA LUFT		9284491	

Quanterra

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: G9I250143 **Work Order #...:** D32R2101 **Matrix.....:** WATER
MB Lot-Sample #: G9I290000-381

Prep Date.....: 09/29/99
Analysis Date..: 10/19/99 **Prep Batch #...:** 9272381
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
TPH (as Diesel)	ND	50	ug/L	SW846 8015 MOD
Unknown Hydrocarbon	ND	50	ug/L	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	104	(66 - 136)

NOTE(S):

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

Quanterra

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #...: G9I250143 **Work Order #...:** D32R2102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G9I290000-381 D32R2103-LCSD
Prep Date.....: 09/29/99 **Analysis Date..:** 10/19/99
Prep Batch #...: 9272381
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
TPH (as Diesel)	**300**	**287**	**ug/L**	**96**		**SW846 8015 MOD**
	300	**296**	**ug/L**	**99**	**3.1**	**SW846 8015 MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	112	(66 - 136)
	111	(66 - 136)

NOTE(S):

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

Bold print denotes control parameters

Quanterra

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: G9I250143 **Work Order #...:** D32R2102-LCS **Matrix.....:** WATER
LCS Lot-Sample#: G9I290000-381 D32R2103-LCSD
Prep Date.....: 09/29/99 **Analysis Date..:** 10/19/99
Prep Batch #...: 9272381
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**96**	**(50 - 129)**			**SW846 8015 MOD**
	99	**(50 - 129)**	**3.1**	**(0-23)**	**SW846 8015 MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	112	(66 - 136)
	111	(66 - 136)

NOTE(S):

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

Bold print denotes control parameters