



A Report Prepared For:

Pacific Electric Motor Company
1009 66th Avenue
Oakland, California 94601

Attention: Mr. Rand Perry

**SECOND QUARTER 2000
GROUNDWATER MONITORING REPORT
PACIFIC ELECTRIC MOTOR COMPANY
1009 66TH AVENUE
OAKLAND, CALIFORNIA**

#565

SEPTEMBER 5, 2000

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PES ENVIRONMENTAL

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618.001.02.002

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1.0 INTRODUCTION

This report presents the results of quarterly groundwater monitoring performed by PES Environmental, Inc. (PES) during the second quarter of 2000 at Pacific Electric Motor Company (PEM) in Oakland, California (Plate 1). The current groundwater monitoring program consists of measuring the depth to groundwater in four onsite monitoring wells, and purging and sampling the monitoring wells (Wells MW-1, MW-2, MW-3, and MW-4) on a quarterly basis.

The purpose of the groundwater monitoring program is to: (1) evaluate the presence of petroleum hydrocarbons in groundwater; and (2) monitor water-level variations at the site. The quarterly monitoring program was performed in accordance with the sampling program specified in the Alameda County Environmental Health Services (ACEHS) December 1, 1998 letter *Additional Soil and Groundwater Investigation Report, 1009-66th Ave., Oakland, CA 94601* (ACEHS, 1998b) and the procedures outlined in PES' proposal dated December 11, 1998 (PES, 1998b).

2.0 BACKGROUND INFORMATION

The site is located in a residential and light industrial area in Oakland, California and is presently used to repair large electric motors. PEM formerly operated a 2,000-gallon steel gasoline underground storage tank (UST) on the east side of the warehouse building (Plate 2). The tank was reportedly installed in approximately 1975 (ENVIRON, 1997). In February 1995, the UST was removed by W. A. Craig, Inc. (WAC). Observations at the time of removal indicated that the tank was in good condition and no holes were evident. However, free-phase gasoline product was observed on the water surface in the tank excavation. Soil samples collected from the UST excavation and associated piping trenches detected total petroleum hydrocarbons as gasoline (TPH-g) at concentrations up to 10,000 milligrams per kilogram.

In April 1995, WAC performed a soil investigation consisting of nine soil borings to delineate the lateral and vertical extent of the petroleum hydrocarbons in soil. On the basis of the results of the soil investigation, WAC prepared and implemented a remediation program to remove soil affected by petroleum hydrocarbons. Approximately 1,500 cubic yards of soil were excavated and stockpiled onsite, and 116,000 gallons of petroleum hydrocarbon-affected water were pumped from the excavation and disposed. A dewatering sump installed by WAC during soil excavation was later converted to groundwater monitoring well WAC-1 (Plate 2). Because of its uncertain construction, ACEHS stated that no monitoring of Well WAC-1 is required (ACEHS, 1997). WAC summarized the results of their remediation program in a report entitled *Excavation and Sampling Report, Pacific Electric Motor Co., 1009 66th Avenue, Oakland, California*, dated May 12, 1997 (WAC, 1997).

ENVIRON, Inc. (ENVIRON) installed and sampled three shallow monitoring wells (MW-1, MW-2, MW-3) in June 1997 to evaluate groundwater conditions in the vicinity of the former UST. Well completion details are summarized in Table 1. The well installation program and associated soil and groundwater sampling program was summarized in the ENVIRON report *Soil and Ground Water Investigation, Summary Report, Pacific Electric Motor Co., 1009-66th Avenue, Oakland, California*, dated July 17, 1997 (ENVIRON, 1997). ENVIRON concluded that the remediation performed had successfully removed the source of the petroleum hydrocarbons (i.e., the former UST), and that residual concentrations of petroleum hydrocarbons in soil and groundwater were present only in the immediate vicinity of the former UST.

In September 1998 PES conducted additional soil and groundwater sampling in the vicinity of the former UST, as requested by the ACEHS in a May 13, 1998 letter to PEM (ACEHS, 1998a). Two soil borings were drilled within the backfill of the former UST excavation, and one monitoring well was installed downgradient of the former UST. Petroleum hydrocarbons were generally not detected in the excavation backfill, although groundwater samples collected from both soil borings indicated the presence of methyl tert-butyl ether (MTBE), a gasoline additive. Elevated petroleum hydrocarbons were found in soil and groundwater downgradient of the UST excavation during installation and groundwater sampling of monitoring well MW-4. On the basis of the elevated concentrations of petroleum hydrocarbons, PES recommended four quarters of additional groundwater monitoring. The additional investigation was summarized in the PES report *Results of Additional Soil and Groundwater Investigation, 1009 66th Avenue, Oakland, California*, dated November 11, 1998 (PES, 1998a).

3.0 WATER-LEVEL MEASUREMENTS

Water levels in four onsite groundwater monitoring wells (Wells MW-1, MW-2, MW-3, and MW-4) were measured by Blaine Tech Services, Inc. (Blaine Tech) of San Jose, California, under the direct supervision of PES, prior to sampling on May 18, 2000. Depth-to-water in the monitoring wells was measured from the top-of-casing (TOC) reference benchmark to a precision of 0.01-feet using an electronic water-level indicator/interface probe. Depth-to-water measurements were converted to water-level elevations by subtracting the depth to water from the TOC elevation referenced to a site datum established by ENVIRON (ENVIRON, 1997). Free product was not observed in any of the monitoring wells.

To prevent cross-contamination between wells, the portion of the water-level indicator that was submerged in the well was cleaned between well measurements using a phosphate-free detergent/deionized water solution and double rinsed with deionized water.

4.0 GROUNDWATER SAMPLING

On May 18, 2000, Blaine Tech, under the direct supervision of PES, collected groundwater samples from Wells MW-1, MW-2, MW-3, and MW-4. Groundwater samples were collected from each well after removing approximately three well volumes of water with disposable bailers. During well purging, the discharged water was monitored for pH, temperature, electrical conductivity, and turbidity.

Following purging, samples were collected from the wells using a stainless steel or Teflon disposable bailer and transferred to the appropriate laboratory sample containers. The sample containers were filled slowly to minimize sample volatilization and to ensure that the sample was free of air bubbles. The samples were labeled to designate sample number, time and date collected, and analysis required. The samples were immediately placed in a chilled, thermally-insulated cooler. To prevent cross-contamination between wells, the pump and stainless steel bailer were decontaminated using a high-pressure steam cleaner prior to initial use and after sampling at each well. Sampling procedures are documented in the groundwater sampling report prepared by Blaine Tech, included in Appendix A.

Groundwater samples were transported under chain-of-custody protocol to a state-certified laboratory. Entech Analytical Labs of Sunnyvale, California analyzed samples for: (1) total petroleum hydrocarbons quantified as gasoline (TPH-g) using EPA Test Method 8015 Modified; (2) benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Test Method 8020; and (3) methyl tert-butyl ether (MTBE) using EPA Test Method 8020. Detected concentrations of MTBE were confirmed using EPA Test Method 8260. The laboratory reports and chain-of-custody records are included in Appendix B.

5.0 DISCUSSION OF MONITORING RESULTS

This section presents a summary of water-level measurements and groundwater analyses results from the March 2000 sampling event.

5.1 Water-Level Measurements

Depth-to-water measurements during the March 2000 event ranged from 4.04 feet (MW-2) to 4.40 feet (MW-4) below TOC. Groundwater water-level elevations ranged from 95.77 feet (MW-3) to 96.33 feet (MW-1) referenced to site datum established by ENVIRON (ENVIRON, 1997). Historical and current depth-to-water measurements and calculated water-level elevations are presented in Table 2.

Plate 3 presents water-level elevation contours developed from water levels measured on May 18, 2000. The water-level elevation contours indicate that groundwater flow is generally to the southwest. The observed flow direction differs slightly from the southern flow direction observed during the March 2000 monitoring event, but is within the historical range of

observed groundwater flow direction. The groundwater gradient is approximately 0.004 foot per foot (ft/ft).

5.2 Groundwater Chemistry

A summary of current and historical laboratory chemical results for petroleum hydrocarbons is presented in Table 3. The analytical laboratory reports and chain-of-custody forms are presented in Appendix B.

During the current monitoring period petroleum hydrocarbon compounds were detected in groundwater samples from Well MW-1 and MW-4.

No petroleum hydrocarbon compounds were detected in the samples collected from Wells MW-2, and MW-3 during the current sampling event. Low concentrations had been last detected in these wells during early 1999 sampling events.

At Well MW-1, TPH-g, benzene, toluene, ethyl benzene, and xylenes were detected at concentrations of 1,300, 10, 1.2, 38 and 130 micrograms per liter ($\mu\text{g/L}$), respectively. MTBE was detected at a concentration of 8.6 $\mu\text{g/L}$ using EPA Test Method 8020. MTBE was not detected in the sample collected from Well MW-1 when analyzed by EPA Test Method 8260. Although petroleum hydrocarbon concentrations in Well MW-1 have fluctuated over the past year, concentrations have generally decreased since June 1997.

At Well MW-4, TPH-g, benzene, toluene, ethyl benzene, and xylenes were detected at concentrations of 91,000, 15,000, 10,000, 2,200 and 9,600 $\mu\text{g/L}$, respectively. MTBE was detected at a concentration of 64,000 $\mu\text{g/L}$ using EPA Test Methods 8020 and confirmed at a concentration of 77,000 $\mu\text{g/L}$ using EPA Test Method 8260.

Current data from the downgradient monitoring wells (MW-2 and MW-3), consistent with that of the November 1999 event, appear to indicate that the petroleum hydrocarbon plume associated with the former UST remains stable and localized. Current data from Well MW-1 indicates a slight increase in petroleum hydrocarbon concentrations from the March 2000 sampling event, though current data remains consistent with historical concentrations. Petroleum hydrocarbon concentrations detected in Well MW-4 are consistent with concentrations observed during the March 2000 sampling event.

6.0 REFERENCES

Alameda County Environmental Health Services (ACEHS), 1997. *Soil and Groundwater Investigation for Pacific Electric Motor Co., 1009-66th Ave., Oakland, CA 94601.* August 19.

_____, 1998a. *Evaluation of Residual Health Risks at Pacific Electric Motor Company, 1009 66th Avenue, Oakland, CA 94601.* May 13.

_____, 1998b. *Additional Soil and Groundwater Investigation Report, 1009 66th Ave., Oakland, 94601.* December 1.

ENVIRON Corporation, 1997. *Soil and Groundwater Investigation, Summary Report, Pacific Electric Motor Co., 1009-66th Avenue, Oakland, California.* July 17.

PES Environmental, Inc. (PES), 1998a. *Results of Additional Soil and Groundwater Investigation, 1009 66th Avenue, Oakland, California.* November 11.

_____, 1998b. *Proposal, Quarterly Groundwater Sampling, Pacific Electric Motor Company, Oakland, California.* December 11.

W. A. Craig, Inc. (WAC), 1997. *Excavation and Sampling Report, Pacific Electric Motor Co., 1009 66th Avenue, Oakland, California.* May 12. (Partial)

**Table 1. Monitoring Well Completion Details
 Quarterly Monitoring Report
 Second Quarter 2000
 Pacific Electric Motor Company
 1009 66th Avenue, Oakland, California**

Well Number	Date Installed	Installed By	TOC Elevation (feet*)	Boring Diameter (inches)	Casing Diameter (inches)	Total Depth Boring (feet bgs)	Total Depth of Casing (feet bgs)	Screened Interval Depth (feet bgs)	
								Top	Bottom
MW-1	6/10/97	ENVIRON	101.04	8	2	26.5	25.5	5	25
MW-2	6/10/97	ENVIRON	100.12	8	2	25.5	25.5	5	25
MW-3	6/10/97	ENVIRON	100.23	8	2	25.5	25.5	5	25
MW-4	9/14/98	PES	100.32	8	2	25.0	25.0	15	25

Notes:

* = Referenced to site datum established by ENVIRON (1997).

bgs = Below ground surface.

**Table 2. Water-Level Elevation Data
Quarterly Monitoring Report
Second Quarter 2000
Pacific Electric Motor Company
1009 66th Avenue, Oakland, California**

Well Number	Date	Measured By	Top of Casing Elevation (feet*)	Depth to Water (feet BTOC)	Water-level Elevation (feet*)
MW-1	6/19/97	ENVIRON	100.67	5.87	94.80
	7/1/97	ENVIRON	100.67	5.88	94.79
	9/29/97	PES	100.67	6.45	94.22
	12/16/97	PES	100.67	3.42	97.25
	3/10/98	PES	100.67	3.06	97.61
	10/1/98	PES	100.67	6.36	94.31
	1/19/99	PES	100.67	5.33	95.34
	4/15/99	PES	100.67	3.23	97.44
	5/6/99	PES	100.67	4.36	96.31
	7/30/99	PES	100.67	5.49	95.18
	11/15/99	PES	100.67	6.30	94.37
	3/24/00	PES	100.67	3.47	97.20
	5/18/00	PES	100.67	4.34	96.33
MW-2	6/19/97	ENVIRON	99.85	5.30	94.55
	7/1/97	ENVIRON	99.85	5.37	94.48
	9/29/97	PES	99.85	6.05	93.80
	12/16/97	PES	99.85	3.81	96.04
	3/10/98	PES	99.85	2.89	96.96
	10/1/98	PES	99.85	5.83	94.02
	1/19/99	PES	99.85	5.26	94.59
	4/15/99	PES	99.85	3.19	96.66
	5/6/99	PES	99.85	3.91	95.94
	7/30/99	PES	99.85	4.79	95.06
	11/15/99	PES	99.85	5.92	93.93
	3/24/00	PES	99.85	3.55	96.30
	5/18/00	PES	99.85	4.04	95.81
MW-3	6/19/97	ENVIRON	99.93	5.50	94.43
	7/1/97	ENVIRON	99.93	5.52	94.41
	9/29/97	PES	99.93	6.16	93.77
	12/16/97	PES	99.93	5.52	94.41
	3/10/98	PES	99.93	3.11	96.82
	10/1/98	PES	99.93	5.96	93.97
	1/19/99	PES	99.93	5.45	94.48
	4/15/99	PES	99.93	3.85	96.08
	5/6/99	PES	99.93	4.12	95.81
	7/30/99	PES	99.93	5.14	94.79
	11/15/99	PES	99.93	6.35	93.58
	3/24/00	PES	99.93	3.29	96.64
	5/18/00	PES	99.93	4.16	95.77

**Table 2. Water-Level Elevation Data
 Quarterly Monitoring Report
 Second Quarter 2000
 Pacific Electric Motor Company
 1009 66th Avenue, Oakland, California**

Well Number	Date	Measured By	Top of Casing Elevation (feet*)	Depth to Water (feet BTOC)	Water-level Elevation (feet*)
MW-4	10/1/98	PES	100.32	6.32	94.00
	1/19/99	PES	100.32	5.59	94.73
	4/15/99	PES	100.32	7.71 #	92.61 #
	5/6/99	PES	100.32	4.50	95.82
	7/30/99	PES	100.32	5.18	95.14
	11/15/99	PES	100.32	6.27	94.05
	3/24/00	PES	100.32	3.59	96.73
	5/18/00	PES	100.32	4.40	95.92

Notes:

* = Referenced to site datum established by ENVIRON (1997).

BTOC = Below top of casing.

= Anomalous data, not used for water-level elevation contouring.

**Table 3. Analytical Results for Groundwater Samples
 Quarterly Monitoring Report
 Second Quarter 2000
 Pacific Electric Motor Company
 1009 66th Avenue, Oakland, California**

Sample Location	Date Sampled	Sampled By	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE EPA 8020 (µg/L)	MTBE EPA 8260 (µg/L)
MW-1	6/19/97	ENVIRON	18,000	3,300	200	1,100	4,900	<250	--
	9/29/97	PES	29,000	4,800	<25	2,000	3,500	<250	--
	12/16/97	PES	<50	1.3	<0.5	0.6	0.7	<5	--
	3/10/98	PES	190	2.0	<0.5	5.7	1.7	<5	--
	1/19/99	PES	1,000	40	<0.5	18	68	8.3	6.9
	4/15/99	PES	<50	0.92	0.9	0.7	0.87	<5.0	--
	7/30/99	PES	1,400	60	<0.5	63	120	13	<5.0
	11/15/99	PES	3,600	120	<0.5	150	620	<5.0	--
	3/24/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	5/18/00	PES	1,300	10	1.2	38	130	8.6	<5.0
MW-2	6/19/97	ENVIRON	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	9/29/97	PES	<50	<0.5	<0.5	<0.5	<0.5	<5	--
	12/16/97	PES	<50	<0.5	<0.5	<0.5	<0.5	<5	--
	3/10/98	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	1/19/99	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<5.0
	4/15/99	PES	<50	0.75	0.64	<0.5	0.74	<5.0	--
	7/30/99	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	11/15/99	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/24/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	5/18/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
MW-3	6/19/97	ENVIRON	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	9/29/97	PES	<50	<0.5	<0.5	<0.5	<0.5	<5	--
	12/16/97	PES	<50	<0.5	<0.5	<0.5	<0.5	<5	--
	3/10/98	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	1/19/99	PES	<50	0.78	<0.5	<0.5	<0.5	8.7	<5.0
	4/15/99	PES	<50	5.4	3.9	1.7	5.6	23	25
	7/30/99	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	11/15/99	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	3/24/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--
	5/18/00	PES	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--

**Table 3. Analytical Results for Groundwater Samples
 Quarterly Monitoring Report
 Second Quarter 2000
 Pacific Electric Motor Company
 1009 66th Avenue, Oakland, California**

Sample Location	Date Sampled	Sampled By	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE EPA 8020 (µg/L)	MTBE EPA 8260 (µg/L)
MW-4	9/15/98	PES	170,000	26,000	32,000	2,900	18,000	26,000	--
	1/19/99	PES	2,600	1,700	3.8	25	29	13,000	16,000
	4/15/99	PES	210,000	28,000	15,000	3,700	19,000	52,000	67,000
	7/30/99	PES	91,000	16,000	7,500	2,300	8,500	68,000	67,000
	11/15/99	PES	63,000	8,500	2,400	1,400	4,000	57,000	58,000
	3/24/00	PES	95,000	16,000	13,000	2,500	12,000	44,000	NA
	5/18/00	PES	91,000	15,000	10,000	2,200	9,600	64,000	77,000

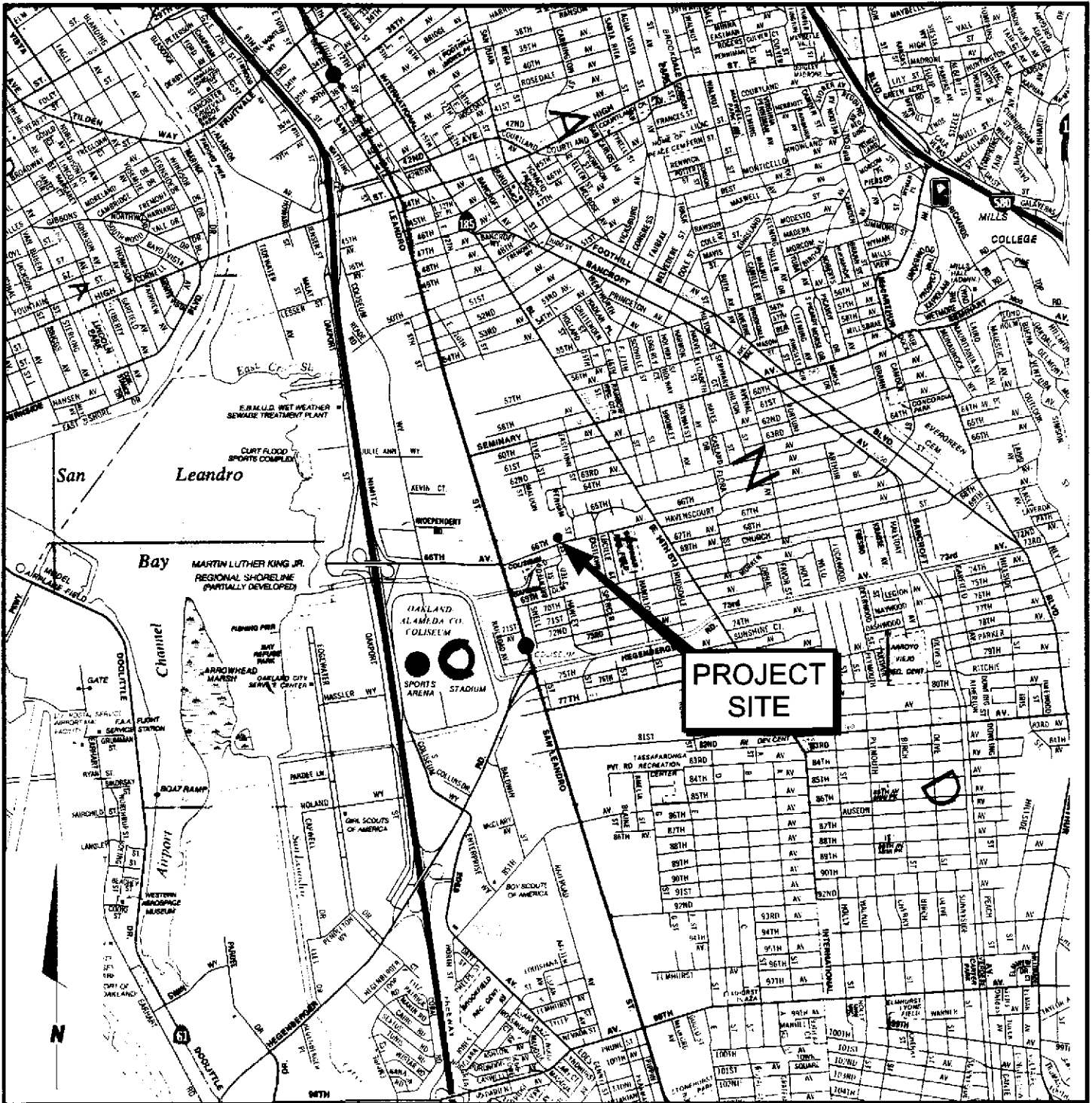
Notes:

TPH-g = Total petroleum hydrocarbons quantified as gasoline (EPA 8015M).

MTBE = Methyl tert-butyl ether (EPA 8020; detected concentrations were confirmed by EPA 8260.)

µg/L = Micrograms per liter.

<50 = Not detected at or above the indicated laboratory reporting limit.



0 2000 4000
 Scale in Feet

Oakland Map, California State Automobile Association, 1997.



Site Location Map
 Quarterly Groundwater Monitoring - Second
 Quarter 2000
 Pacific Electric Motor Company
 1009 66th Avenue, Oakland, California

PLATE
1

618.00102.002
 JOB NUMBER

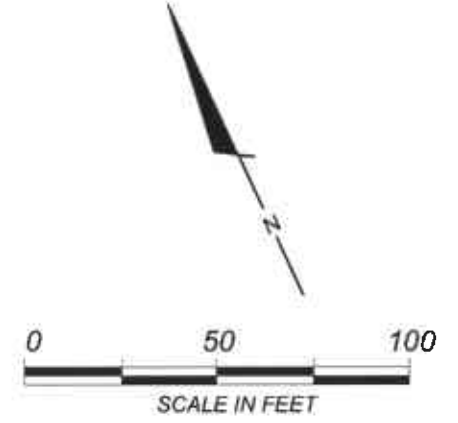
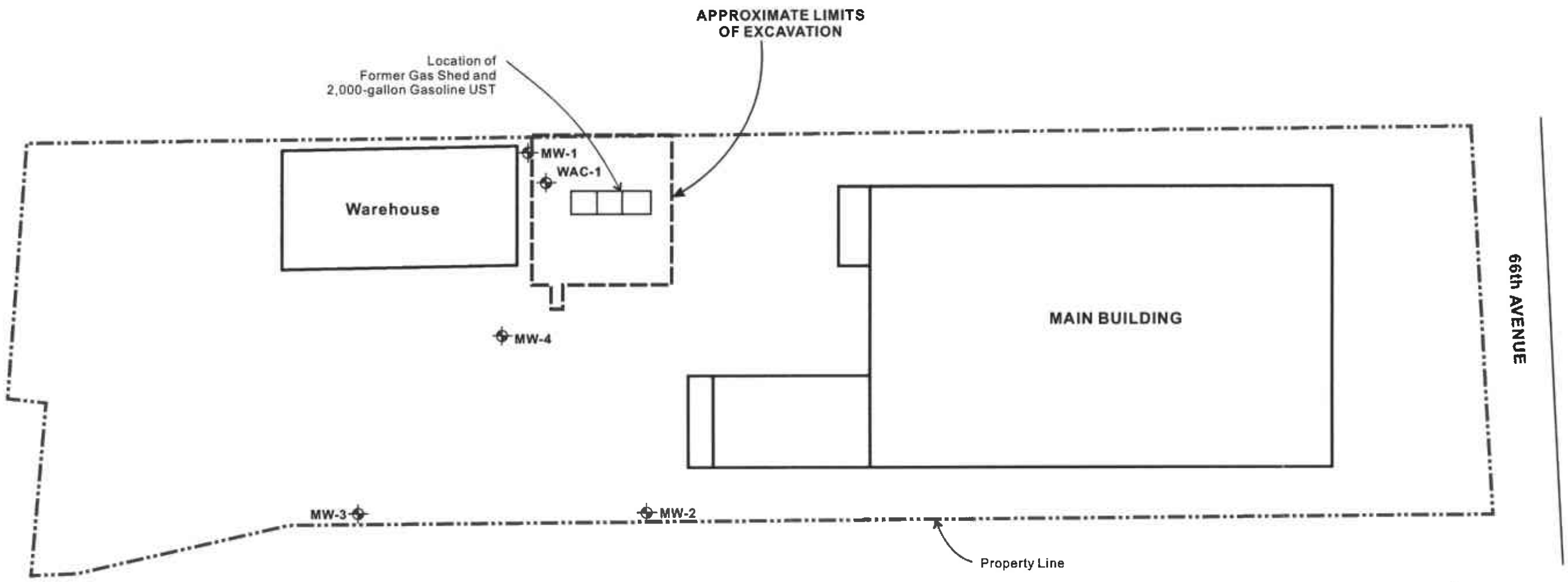
61800101004 V1.CDR
 DRAWING NUMBER

[Signature]
 REVIEWED BY



08/00
 DATE

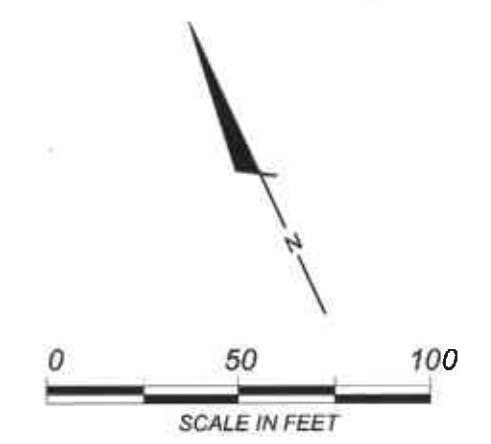
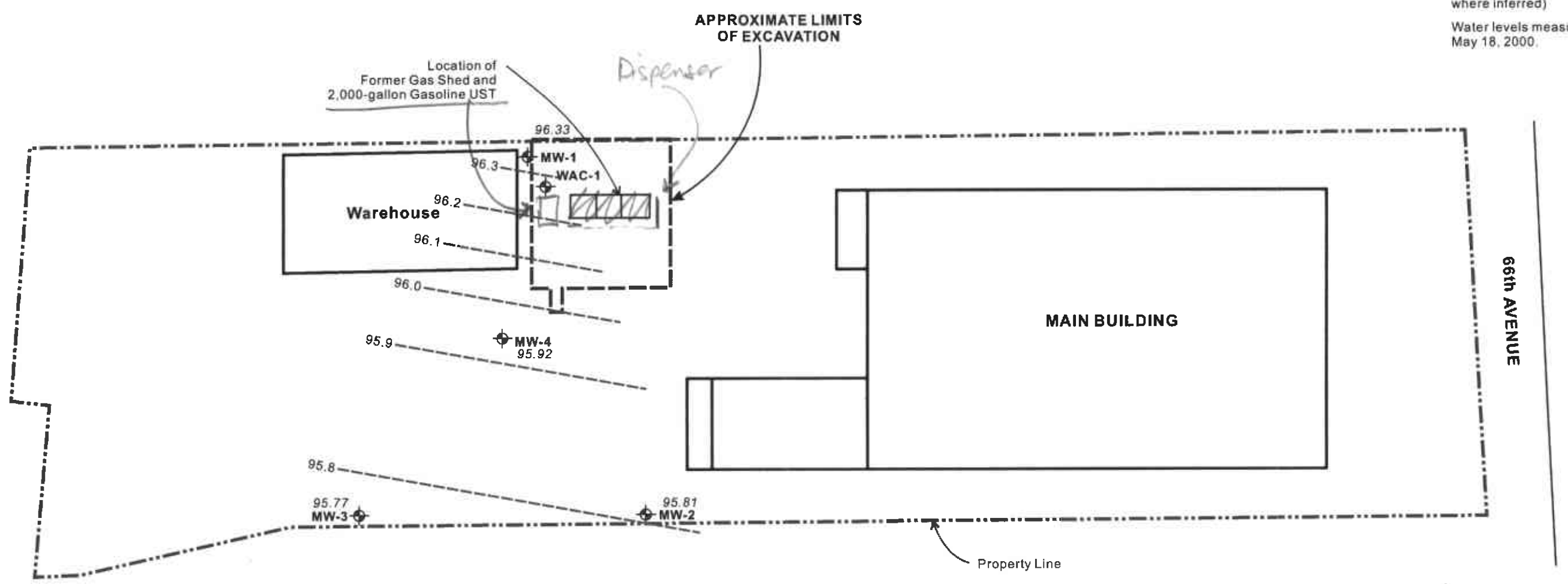
Explanation

⊕ Monitoring Well Location



Drawing modified from ENVIRON, 1997

- Explanation**
-  Monitoring Well Location
 - 96.33 Water-Level Elevation (in feet, referenced to site datum.
 -  Groundwater contour (in feet referenced to site datum: dashed where inferred)
 - Water levels measured on May 18, 2000.

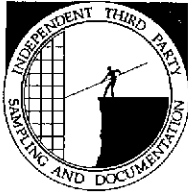


Drawing modified from ENVIRON, 1997

APPENDIX A

GROUNDWATER SAMPLING REPORT

BLAINE
TECH SERVICES, INC.



June 5, 2000

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

RECEIVED JUN 07 2000

PES Environmental, Inc.
1682 Novato Blvd., Suite 100
Novato, CA 94947

ATTN: Will Mast

Site:
Pacific Electric Motor Company
1099 66th Ave.
Oakland, California

Date:
May 18, 2000

GROUNDWATER SAMPLING REPORT 000518-K-2

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results, or become involved with the marketing or installation of remedial systems.

This report deals with the groundwater well sampling performed by our firm in response to your request. Data collected in the course of our work at the site are presented in the TABLE OF WELL MONITORING DATA. This information was collected during our inspection, well evacuation and sample collection. Measurements include the total depth of the well and the depth to water. Water surfaces were further inspected for the presence of immiscibles. A series of electrical conductivity, pH, turbidity, and temperature readings were obtained during well evacuation and at the time of sample collection.

STANDARD PRACTICES

Evacuation and Sampling Equipment

As shown in the TABLE OF WELL MONITORING DATA, the wells at this site were evacuated according to a protocol requirement for the removal of three case volumes of water, before sampling. The wells were evacuated using disposable bailers.

Samples were collected using disposable bailers.

Bailers: A bailer, in its simplest form, is a hollow tube which has been fitted with a check valve at the lower end. The device can be lowered into a well by means of a cord. When the bailer enters the water, the check valve opens and liquid flows into the interior of the bailer. The bottom check valve prevents water from escaping when the bailer is drawn up and out of the well.

Two types of bailers are used in groundwater wells at sites where fuel hydrocarbons are of concern. The first type of bailer is made of a clear material such as acrylic plastic and is used to obtain a sample of the surface and the near surface liquids, in order to detect the presence of visible or measurable fuel hydrocarbon floating on the surface. The second type of bailer is made of Teflon or stainless steel, and is used as an evacuation and/or sampling device.

Bailers are inexpensive and relatively easy to clean. Because they are manually operated, variations in operator technique may have a greater influence than would be found with more automated sampling equipment. Also, where fuel hydrocarbons are involved, the bailer may include near surface contaminants that are not representative of water deeper in the well.

Decontamination

All apparatus is brought to the site in clean and serviceable condition. The equipment is decontaminated after each use and before leaving the site.

Effluent Materials

The evacuation process creates a volume of effluent water which must be contained. Blaine Tech Services, Inc. will place this water in appropriate containers of the client's choice or bring new 55 gallon DOT 17 E drums to the site, which are appropriate for the containment of the effluent materials. The determination of how to properly dispose of the effluent water must usually await the results of laboratory analyses of the sample collected from the groundwater well. If that sample does not establish whether or not the effluent water is contaminated, or if effluent from more than one source has been combined in the same container, it may be necessary to conduct additional analyses on the effluent material.

Sampling Methodology

Samples were obtained by standardized sampling procedures that follow an evacuation and sample collection protocol. The sampling methodology conforms to both State and Regional Water Quality Control Board standards and specifically adheres to EPA requirements for apparatus, sample containers and sample handling as specified in publication SW 846 and T.E.G.D. which is published separately.

Sample Containers

Sample containers are supplied by the laboratory performing the analyses.

Sample Handling Procedures

Following collection, samples are promptly placed in an ice chest containing ice or an inert ice substitute such as Blue Ice or Super Ice. The samples are maintained in either an ice chest or a refrigerator until delivered into the custody of the laboratory.

Sample Designations

All sample containers are identified with both a sampling event number and a discrete sample identification number. Please note that the sampling event number is the number that appears on our chain of custody. It is roughly equivalent to a job number, but applies only to work done on a particular day of the year rather than spanning several days, as jobs and projects often do.

Chain of Custody

Samples are continuously maintained in an appropriate cooled container while in our custody and until delivered to the laboratory under our standard chain of custody. If the samples are taken charge of by a different party (such as another person from our office, a courier, etc.) prior to being delivered to the laboratory, appropriate release and acceptance records are made on the chain of custody (time, date and signature of person accepting custody of the samples).

Hazardous Materials Testing Laboratory

The samples obtained at this site were analyzed at Entech in Sunnyvale, California. Entech is certified by the California Department of Health Services under the Environmental Laboratory Accreditation Program (ELAP), and is listed as ELAP #I-2346.

Personnel

All Blaine Tech Services, Inc. personnel receive 29 CFR 1910.120(e)(2) training as soon after being hired as is practical. In addition, many of our personnel have additional certifications that

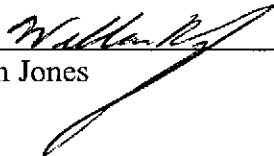
include specialized training in level B supplied air apparatus and the supervision of employees working on hazardous materials sites. Employees are not sent to a site unless we are confident they can adhere to any site safety provisions in force at the site and unless we know that they can follow the written provisions of an SSP and the verbal directions of an SSO.

In general, employees sent to a site to perform groundwater well sampling will assume an OSHA level D (wet) environment exists unless otherwise informed. The use of gloves and double glove protocols protects both our employees and the integrity of the samples being collected. Additional protective gear and procedures for higher OSHA levels of protection are available.

Reportage

Submission to the Regional Water Quality Control Board and the local implementing agency should include copies of the sampling report, the chain of custody and the certified analytical report issued by the Hazardous Materials Testing Laboratory.

Please call if we can be of any further assistance.



William Jones

WRJ/pb

attachments: table of well monitoring data
chain of custody

TABLE OF WELL MONITORING DATA

Well I.D.	MW-1			MW-2			MW-3			MW-4		
Date Sampled	05/18/00			05/18/00			05/18/00			05/18/00		
Well Diameter (in.)	2			2			2			2		
Total Well Depth (ft.)	24.96			24.93			24.82			24.58		
Depth To Water (ft.)	4.34			4.04			4.16			4.40		
Free Product (in.)	NONE			NONE			NONE			NONE		
Reason If Not Sampled	--			--			--			--		
1 Case Volume (gal.)	3.3			3.3			3.3			3.2		
Did Well Dewater?	NO			NO			NO			NO		
Gallons Actually Evacuated	10.00			10.00			10.00			10.00		
Purging Device	DISPOSABLE BAILER			DISPOSABLE BAILER			DISPOSABLE BAILER			DISPOSABLE BAILER		
Sampling Device	DISPOSABLE BAILER			DISPOSABLE BAILER			DISPOSABLE BAILER			DISPOSABLE BAILER		
Time	9:56	10:02	10:06	11:33	11:38	11:42	11:04	11:08	11:12	10:29	10:33	10:38
Temperature (Fahrenheit)	65.2	64.6	64.4	63.9	63.8	63.8	63.7	63.3	63.3	67.4	67.7	67.8
pH	6.22	6.55	6.52	7.00	6.96	6.97	6.87	6.75	6.74	6.36	6.45	6.47
Conductivity (micromhos/cm)	342	403	408	1110	1098	1060	3213	4313	5098	6064	6444	6525
Nephelometric Turbidity Units	67	>200	>200	>200	>200	>200	>200	>200	>200	61	52	46
Dissolved Oxygen (D.O) (mg/L)	--			--			--			--		
Oxidation Reduction Potential (mV)	--			--			--			--		
BTS Chain of Custody	000518-K-2			000518-K-2			000518-K-2			000518-K-2		
BTS Sample I.D.	MW-1			MW-2			MW-3			MW-4		
DOHS HMTL Laboratory	ENTECH			ENTECH			ENTECH			ENTECH		
Analysis	TPH-G, BTEX, MTBE			TPH-G, BTEX, MTBE			TPH-G, BTEX, MTBE			TPH-G, BTEX, MTBE		

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 673-7771
 PHONE (408) 673-0565

CONDUCT ANALYSIS TO DETECT

LAB Entech DHS # _____
 ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
 EPA RWQCB REGION _____
 LIA
 OTHER

CHAIN OF CUSTODY
 CLIENT PES BTS # 000518-KZ
 SITE Pacific Electric Motor
1099 66th Avenue
Oakland, CA

C = COMPOSITE ALL CONTAINERS

TPH - Gas (8015)	BTEX (8020)	MTBE (8020) *																
X	X	X																
X	X	X																
X	X	X																
X	X	X																

SPECIAL INSTRUCTIONS
 Invoice and Report to : PES
 Attn: Will Mast
 * Confirm MTBE hits by EPA 8240/8260

SAMPLE I.D.	DATE	TIME	MATRIX S= SOIL W=H ₂ O	CONTAINERS TOTAL																ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #		
MW-1	5/18/00	1008	W	6	HCL																				
MW-2	}	1144	↓	6	VOAS																				
MW-3		1114		6	40ml																				
MW-4		1041		6	↓																				

SAMPLING COMPLETED DATE 5/18/00 TIME 1144 SAMPLING PERFORMED BY MATT SMITH RESULTS NEEDED NO LATER THAN Per Client

RELEASED BY Matthew Smith DATE 5/19/00 TIME 1135 RECEIVED BY J. Miller DATE 5/19/00 TIME 11:35

RELEASED BY _____ DATE _____ TIME _____ RECEIVED BY _____ DATE _____ TIME _____

RELEASED BY _____ DATE _____ TIME _____ RECEIVED BY _____ DATE _____ TIME _____

SHIPPED VIA _____ DATE SENT _____ TIME SENT _____ COOLER # _____

APPENDIX B

**LABORATORY REPORTS
AND
CHAIN-OF-CUSTODY RECORDS**

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

May 26, 2000

Will Mast

PES Environmental, Inc.

1682 Novato Boulevard, Suite 100

Novato, CA 94947

Order: 20587

Date Collected: 5/18/00

Project Name:

Date Received: 5/19/00

Project Number: 000518-K2

P.O. Number:

Project Notes:


On May 19, 2000, samples were received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
Liquid	Gas/BTEX/MTBE	EPA 8015 MOD. (Purgeable) EPA 8020

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,



Michelle L. Anderson
Lab Director

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

PES Environmental, Inc.
1682 Novato Boulevard, Suite 100
Novato, CA 94947
Attn: Will Mast

Date: 5/26/00
Date Received: 5/19/00
Project Name:
Project Number: 000518-K2
P.O. Number:
Sampled By: Blaine Tech

Certified Analytical Report

Order ID: 20587

Lab Sample ID: 20587-001

Client Sample ID: MW-1

Sample Time: 10:08 AM

Sample Date: 5/18/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	10.0		1	0.5	0.5	µg/L		5/22/00	WGC4000522B	EPA 8020
Toluene	1.2		1	0.5	0.5	µg/L		5/22/00	WGC4000522B	EPA 8020
Ethyl Benzene	38		1	0.5	0.5	µg/L		5/22/00	WGC4000522B	EPA 8020
Xylenes, Total	130		1	0.5	0.5	µg/L		5/22/00	WGC4000522B	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							83		65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	8.6		1	5	5	µg/L		5/22/00	WGC4000522B	EPA 8020
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							83		65 - 135	

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	1300		1	50	50	µg/L		5/22/00	WGC4000522B	EPA 8015 MOD. (Purgeable)
Surrogate							Surrogate Recovery		Control Limits (%)	
aaa-Trifluorotoluene							72		65 - 135	


DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


Michelle L. Anderson, Laboratory Director*Environmental Analysis Since 1983*

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

PES Environmental, Inc.
1682 Novato Boulevard, Suite 100
Novato, CA 94947
Attn: Will Mast

Date: 5/26/00
Date Received: 5/19/00
Project Name:
Project Number: 000518-K2
P.O. Number:
Sampled By: Blaine Tech

Certified Analytical Report

Order ID: 20587

Lab Sample ID: 20587-002

Client Sample ID: MW-2

Sample Time: 11:44 AM

Sample Date: 5/18/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	µg/L		5/23/00	WGC4000522B	EPA 8020
Toluene	ND		1	0.5	0.5	µg/L		5/23/00	WGC4000522B	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	µg/L		5/23/00	WGC4000522B	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	µg/L		5/23/00	WGC4000522B	EPA 8020
Surrogate aaa-Trifluorotoluene							Surrogate Recovery 99		Control Limits (%) 65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L		5/23/00	WGC4000522B	EPA 8020
Surrogate aaa-Trifluorotoluene							Surrogate Recovery 99		Control Limits (%) 65 - 135	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	µg/L		5/23/00	WGC4000522B	EPA 8015 MOD. (Purgeable)
Surrogate aaa-Trifluorotoluene							Surrogate Recovery 104		Control Limits (%) 65 - 135	


DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

PES Environmental, Inc.
 1682 Novato Boulevard, Suite 100
 Novato, CA 94947
 Attn: Will Mast

Date: 5/26/00
 Date Received: 5/19/00
 Project Name:
 Project Number: 000518-K2
 P.O. Number:
 Sampled By: Blaine Tech

Certified Analytical Report

Order ID: 20587

Lab Sample ID: 20587-004

Client Sample ID: MW-4

Sample Time: 10:41 AM

Sample Date: 5/18/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	15000		500	0.5	250	µg/L		5/23/00	WGC4000522B	EPA 8020
Toluene	10000		500	0.5	250	µg/L		5/23/00	WGC4000522B	EPA 8020
Ethyl Benzene	2200		500	0.5	250	µg/L		5/23/00	WGC4000522B	EPA 8020
Xylenes, Total	9600		500	0.5	250	µg/L		5/23/00	WGC4000522B	EPA 8020
Surrogate						Surrogate Recovery		Control Limits (%)		
aaa-Trifluorotoluene						101		65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	64000		500	5	2500	µg/L		5/23/00	WGC4000522B	EPA 8020
Surrogate						Surrogate Recovery		Control Limits (%)		
aaa-Trifluorotoluene						101		65 - 135		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	91000		500	50	25000	µg/L		5/23/00	WGC4000522B	EPA 8015 MOD. (Purgeable)
Surrogate						Surrogate Recovery		Control Limits (%)		
aaa-Trifluorotoluene						106		65 - 135		


DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


 Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

QUALITY CONTROL RESULTS SUMMARY

Volatile Organic Compounds
Laboratory Control Sample

QC Batch #: WMS000525

Matrix: Liquid

Units: $\mu\text{g/L}$

Date analyzed: 05/25/00

Spiked Sample: Blank Spike

PARAMETER	Method #	SA $\mu\text{g/L}$	SR $\mu\text{g/L}$	SP $\mu\text{g/L}$	SP %R	SPD $\mu\text{g/L}$	SPD %R	RPD	QC LIMITS	
									RPD	%R
1,1- Dichloroethene	8240/8260	25	ND	24.3	97	25.2	101	3.6	25	50-150
Methyl-tert-butyl ether	8240/8260	25	ND	23.9	96	24.7	99	3.3	25	50-150
Benzene	8240/8260	25	ND	24.9	100	25.5	102	2.4	25	50-150
Trichloroethene	8240/8260	25	ND	28.9	116	29.7	119	2.7	25	50-150
Toluene	8240/8260	25	ND	24.0	96	24.6	98	2.5	25	50-150
Chlorobenzene	8240/8260	25	ND	25.6	102	26.3	105	2.7	25	50-150
<i>Surrogates</i>										
Toluene -d8	8240/8260		98%	98%		98%				65-135
Dibromofluoromethane	8240/8260		119%	114%		119%				65-135
4-Bromofluorobenzene	8240/8260		96%	97%		96%				65-135
MTBE-d3	8240/8260		113%	109%		110%				65-135

Definition of Terms:

na: Not Analyzed in QC batch

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike Duplicate % Recovery

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography

Laboratory Control Sample

QC Batch #: WGC4000522B

Matrix: Liquid

Units: µg/Liter

Date Analyzed: 05/22/00

Quality Control Sample: Blank Spike

PARAMETER	Method #	MB µg/Liter	SA µg/Liter	SR µg/Liter	SP µg/Liter	SP % R	SPD µg/Liter	SPD %R	% RPD	QC LIMITS	
										RPD	%R
Benzene	8020	<0.50	4.7	ND	3.8	80	4.2	89	11.1	25	70-130
Toluene	8020	<0.50	29	ND	26	90	28	95	5.5	25	70-130
Ethyl Benzene	8020	<0.50	5.6	ND	5.0	90	5.1	91	1.4	25	70-130
Xylenes	8020	<0.50	32	ND	29	90	31	97	6.7	25	70-130
Gasoline	8015	<50.0	469	ND	439	94	458	98	4.2	25	70-130
aaa-TFT(S.S.)-FID	8020			105%	115%		109%				65-135
aaa-TFT(S.S.)-PID	8015			98%	100%		108%				65-135

Definition of Terms:

- na: Not Analyzed in QC batch
- MB: Method Blank
- SA: Spike Added
- SR: Sample Result
- RPD(%): Duplicate Analysis - Relative Percent Difference
- SP: Spike Result
- SP (%R): Spike % Recovery
- SPD: Spike Duplicate Result
- SPD (%R): Spike % Recovery
- nc: Not Calculated

QUALITY CONTROL RESULTS SUMMARY

Volatile Organic Compounds
Laboratory Control Sample

QC Batch #: WMS000527

Matrix: Liquid

Units: µg/L

Date analyzed: 05/27/00

Spiked Sample: Blank Spike

PARAMETER	Method #	SA µg/L	SR µg/L	SP µg/L	SP %R	SPD µg/L	SPD %R	RPD		QC LIMITS
									RPD	%R
1,1-Dichloroethene	8240/8260	40	ND	39.8	99	39.7	99	0.3	25	50-150
Methyl-tert-butyl ether	8240/8260	40	ND	44.2	111	42.1	105	5.0	25	50-150
Benzene	8240/8260	40	ND	42.1	105	41.6	104	1.2	25	50-150
Trichloroethene	8240/8260	40	ND	42.1	105	41.3	103	2.0	25	50-150
Toluene	8240/8260	40	ND	41.3	103	40.4	101	2.1	25	50-150
Chlorobenzene	8240/8260	40	ND	41.0	103	39.7	99	3.3	25	50-150
<i>Surrogates</i>										
Toluene -d8	8240/8260		100%	97%		97%				65-135
Dibromofluoromethane	8240/8260		108%	101%		103%				65-135
4-Bromofluorobenzene	8240/8260		93%	103%		103%				65-135
MTBE-d3	8240/8260		106%	106%		105%				65-135

Definition of Terms:

na: Not Analyzed in QC batch

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike Duplicate % Recovery

BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1106
 FAX (408) 573-7771
 PHONE (408) 573-0555

CONDUCT ANALYSIS TO DETECT

LAB

Entech

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
 LIA
 OTHER
 RWQCB REGION _____

CHAIN OF CUSTODY

BTS # **000518-KZ**

CLIENT

PES

SITE

Pacific Electric Motor

1099 66th Avenue

Oakland, CA

C = COMPOSITE ALL CONTAINERS

TPH - Gas (8015)

BTEX (8020)

MTBE (8020) *

SPECIAL INSTRUCTIONS

Invoice and Report to : PES

Attn: Will Mast

* Confirm MTBE hits by EPA 8240/8260

MATRIX CONTAINERS

SAMPLE I.D.	DATE	TIME	S= SOIL W=H ₂ O	CONTAINERS	
				TOTAL	
20587					

SAMPLE I.D.	DATE	TIME	S= SOIL W=H ₂ O	TOTAL		TPH - Gas (8015)	BTEX (8020)	MTBE (8020) *	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #	
001 MW-1	5/18/00	1008	W	6	HCL	X	X	X					
002 MW-2	}	1144	↓	6	VOAS	X	X	X					
003 MW-3		1114		6	40ml	X	X	X					
004 MW-4		1041		6	↓	X	X	X					

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED
	5/18/00	1144	MATT SMITH	NO LATER THAN Per Client

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>Matthew Smith</i>	5/19/00	1135	<i>J. Myheri</i>	5/19/00	11:35
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>J. Myheri</i>	5/19/00	12:13	<i>Greg Dambardo</i>	5/19/00	1420
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

20 MAY 19 13:

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

May 30, 2000

Will Mast

PES Environmental, Inc.

1682 Novato Boulevard, Suite 100

Novato, CA 94947

RECEIVED JUN 09 2000

Order: 20587

Date Collected: 5/18/00

Project Name:

Date Received: 5/19/00

Project Number: 000518-K2

P.O. Number:

Project Notes:

On May 19, 2000, samples were received under documented chain of custody. Results for the following analyses are attached:

<u>Matrix</u>	<u>Test</u>	<u>Method</u>
Liquid	MTBE by EPA 8260B	EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,



Michelle L. Anderson
Lab Director

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

PES Environmental, Inc.
1682 Novato Boulevard, Suite 100
Novato, CA 94947
Attn: Will Mast

Date: 5/30/00
Date Received: 5/19/00
Project Name:
Project Number: 000518-K2
P.O. Number:
Sampled By: Blaine Tech

Certified Analytical Report

Order ID: 20587

Lab Sample ID: 20587-001

Client Sample ID: MW-1

Sample Time: 10:08 AM

Sample Date: 5/18/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	µg/L	5/26/00	WMS000525	EPA 8260B
		Surrogate		Surrogate Recovery		Control Limits (%)			
		4-Bromofluorobenzene		100		65 - 135			
		Dibromofluoromethane		117		65 - 135			
		Toluene-d8		97		65 - 135			


DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


Michelle L. Anderson, Laboratory Director

Page 1 of 2

Environmental Analysis Since 1983

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

PES Environmental, Inc.
1682 Novato Boulevard, Suite 100
Novato, CA 94947
Attn: Will Mast

Date: 5/30/00
Date Received: 5/19/00
Project Name:
Project Number: 000518-K2
P.O. Number:
Sampled By: Blaine Tech

Certified Analytical Report

Order ID: 20587

Lab Sample ID: 20587-004

Client Sample ID: MW-4

Sample Time: 10:41 AM

Sample Date: 5/18/00

Matrix: Liquid

Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	77000		500	5	2500	µg/L	5/27/00	WMS000527	EPA 8260B
Surrogate		Surrogate Recovery		Control Limits (%)					
4-Bromofluorobenzene		98		65 - 135					
Dibromofluoromethane		108		65 - 135					
Toluene-d8		96		65 - 135					

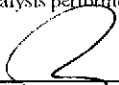
DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)


Michelle L. Anderson, Laboratory Director

Page 2 of 2

Environmental Analysis Since 1983

DISTRIBUTION

**SECOND QUARTER 2000
GROUNDWATER MONITORING REPORT
PACIFIC ELECTRIC MOTOR COMPANY
1009 66TH AVENUE
OAKLAND, CALIFORNIA**

SEPTEMBER 5, 2000

COPY NO. 4

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