EXXON COMPANY, U.S.A.
POST OFFICE BOX 4032 . CONCORD, CA 94524-2032

ENVIRONMENTAL ENGINEERING
MARLA D. GUENSLER
SENIOR ENVIRONMENTAL ENGINEER
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May 24, 1993

Ms. Juliet Shin
Alameda County Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Exxon RAS #7-0104
1725 Park Street
Alameda, CA

Dear Ms. Shin:

Attached for your review and comment is a letter report entitled Offsite Source Investigation, for the above referenced site. This report, prepared by RESNA Industries, Inc., of Novato, California, details the results of the offsite file review to identify potential upgradient sources of hydrocarbon impacted groundwater and soil which may be impacting Exxon's site.

Although file documents are limited at the Alameda County Department of Environmental Health (ACDEH), there is substantial indication that the operation of underground storage tanks on the properties immediately upgradient from Exxon's site may have impacted groundwater. In addition to the results of the Offsite Groundwater Survey completed by Harding Lawson Associates, monitoring wells MW-3 and MW-6, which are up-and cross-gradient from Exxon's source area, consistently indicate levels of hydrocarbons which are indicative of an upgradient source. Exxon respectfully requests the ACDEH's assistance with a request for investigations by potential responsible parties upgradient from the site. Exxon feels it is unreasonable to incur the expense of installing upgradient injection wells, slurry walls, or any other barricading mechanisms to lessen the impact to the site from offsite sources. Also, it would seem unreasonable for Exxon to investigate an upgradient source area for which Exxon is not responsible.

& what named. System?

Exxon will continue to operate its remediation system on site despite the indication that potential upgradient sources may be impacting the site and thus, the cost for remediation. Exxon's onsite source is being remediated and additional downgradient investigations are being completed to determine if the extention of the remediation system offsite is feasible. The results report for the downgradient well installations will be forwarded in the near future.

Ms. Juliet Shin
May 24, 1993
RE: Exxon RAS #7-0104 Offsite File Search
Page 2

Should you have any questions or comments, or require additional information, please contact me at (510) 246-8776.

Sincerely,

Marla D. Guensler

Marla D. Guensler

Attachment

c: w/attachment:
Mr. Richard Hiett - San Francisco Region CWRQCB

w/o attachment:
Mr. Gary Pischke - RESNA, Novato, CA
Mr. L. W. Lindoen
Mr. E. E. Villasenor

MDG/mdg
a70104ltr.doc

RESNA
Working To Restore Nature

73 Digital Drive
Novato, CA 94949
Phone: (415) 382-7400
FAX: (415) 382-7415

May 21, 1993

Ms. Marla Guensler
Exxon Company, U.S.A.
P.O. Box 4032
2300 Clayton Road
Concord, California 94524

Subject: Offsite Source Investigation for Exxon Service Station No. 7-0104, 1725 Park Street, Alameda, California

Ms. Guensler:

At the request of Exxon Company, U.S.A (Exxon), RESNA Industries Inc. (RESNA) performed an offsite source investigation to further evaluate soil and groundwater quality near the subject site (Plate 1). RESNA performed the investigation to evaluate upgradient sources of hydrocarbons and evaluate the status of potential sources in the vicinity of the site as shown on Plate 2. The generalized site plan is shown on Plate 3.

RESNA prepared this report based on the following:

- The Harding Lawson Associates (HLA) reports: *Results of File Review and Offsite Reconnaissance* and *Offsite Groundwater Survey*
- RESNA's formal review of the ACDEH files
- Conversations with ACDEH and City of Alameda Fire Department (CAFD) personnel

The sites researched in HLA's file review and offsite groundwater reconnaissance report included the following: Good Chevrolet, 1603 Park Street; Cavanaugh Motors, 1700 Park Street; German Auto Service, 1719 Park Street; and Alameda Foreign Auto Service (U.S. Brake and Smog), 1726 Park Street (HLA, February 12, 1992, Project No. 92006,345.02). Good Chevrolet is downgradient from the subject site, and Cavanaugh Motors is cross-gradient. The HLA groundwater survey indicated non-detectable results offsite from both. & not so anymore from Good Chevrolet.

RESNA personnel reviewed the Alameda County Department of Environmental Health files and contacted the City of Alameda Fire Department to obtain further information regarding releases and the status of potential investigations currently being performed at Shell service station at 1701 Park Street, the German Auto Service at 1719 Park Street, and U.S. Brake and Smog located at 1726 Park Street. The review results are discussed below.

Shell Service Station, 1701 Park Street

The site is currently an operating Shell service station. The ACDEH file for the site consisted of a compliance folder. The file indicates that four 10,000-gallon underground gasoline tanks are present at the site. All four underground storage tanks passed tank integrity tests on December 3, 1991 and December 1, 1992, but no mention was made of any testing of pump islands or associated piping. No other files were available at the ACDEH regarding the site. The site is not documented in the Alameda County list of leaking underground storage tanks. The location of the Shell service station is shown on Plate 2.

According to Captain Steve McKinley of the CAFD, city records indicate no new tanks have been installed at 1701 Park Street since 1972. However, records indicate an underground gasoline tank (180-gallon) was installed in 1933, and two tanks were installed in 1953 (5,000-and 7,500-gallon). No information was available on the status of the 1933 and 1953 tanks. According to Captain McKinley, the site has been a service station since 1933. The age of the four, existing 10,000-gallon gasoline tanks suggest the electronic monitoring system mentioned on the tank testing documentation in ACDEH files consists of simple electronic float devices in the USTs but there is no indication of electronic monitoring of the gasoline delivery system.

German Auto Service, 1719 Park Street

According to Captain McKinley, city records show the site located at 1719 Park Street contains a 1,000-gallon gasoline tank. The site is not documented in the Alameda County list of leaking underground storage tanks. The location of the German Auto Service is shown on Plate 2.

U.S. Brake and Smog, 1726 Park Street

According to personnel at U.S. Brake and Smog, underground storage tanks were removed from the site around 1960. No further documentation was available on the 1960 tank removal. The Alameda County list of leaking underground storage tanks (dated April 16, 1993) lists 1726 Park Street as a leaking tank site (state identification number: 587). The list states John B. Henry as the owner. The location of U.S. Brake and Smog is shown on Plate 2.

According to the current manager, the site at 1726 Park Street was formerly a Texaco service station and subsequently Alameda Foreign Auto. Texaco Environmental Services personnel confirmed the status of 1726 Park Street. U.S. Brake and Smog replaced Alameda Foreign Auto in 1992. The ACDEH file for the site consisted of a compliance folder which indicated that one tank had been removed from the site in November 1991. There were no available site maps, tank identification, or site assessments in the file. During the May 1993 offsite investigation, RESNA personnel observed what appeared to be backfilled boreholes and one onsite monitoring well at the 1726 Park Street site.

It was here but Kevin didn't give it.

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Working To Restore Nature

HLA Offsite Groundwater Survey

During an offsite groundwater survey, HLA collected groundwater samples along Park Street and Eagle Avenue within one block of the site. The reported highest concentrations of total petroleum hydrocarbons (TPH) as gasoline, TPH as diesel, and benzene were detected in sample results taken on the southwest side of Park Street between the Shell Station and the German Auto Service (HLA, October 30, 1992, Project No. 10495 579). HLA sample results indicated that dissolved hydrocarbon concentrations decreased upgradient along Park Street within the first 60 feet, and then increased within the next 60 feet (HLA, October 30, 1992, Project No. 10495 579). The HLA sample locations and results of sample analyses are shown on Plate 4.

Summary

Based upon file review and available limited source information, upgradient potential sources are the Shell Service Station at 1701 Park Street, and the German Auto Service at 1719 Park Street. Due to its adjacent and upgradient location, the German Auto Service is a possible source of offsite petroleum hydrocarbons. Because concentrations of dissolved petroleum hydrocarbons were highest between the upgradient German Auto Service and the Shell service station, either or both of these sites may be a contributing source of hydrocarbons at Exxon service station 7-0104.

Conclusions

In RESNA's opinion, the Shell service station and/or German Auto Service are likely offsite sources of dissolved petroleum hydrocarbons upgradient of Exxon service station 7-0104. The offsite sources may be affecting wells MW-6 and MW-3.

Please call with any questions or comments about this report.

Sincerely,
RESNA Industries Inc.

Jennifer Chase
Staff Geologist

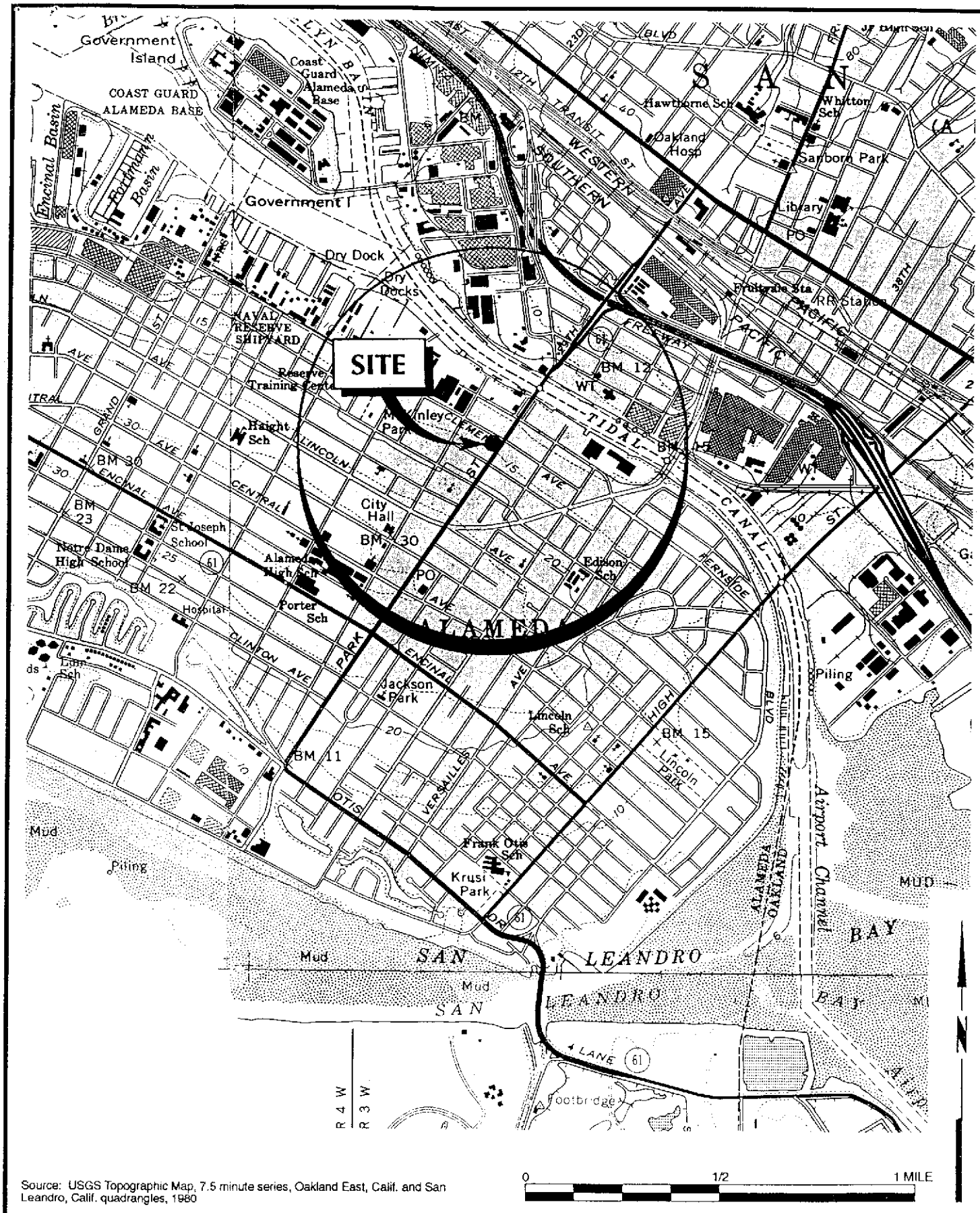
Gary Pischke, CEG 1501
Senior Project Geologist

Enclosures:
- Plate 1 - Site Vicinity Map
- Plate 2 - Area Map
- Plate 3 - Generalized Site Plan
- Plate 4 - Isoconcentration Map for TPH as Gasoline

References:

Harding Lawson Associates, Results of File Review and Offsite Reconnaissance, Exxon Station # 7-0104; HLA Project # 92006.345.02; dated February 12, 1992.

Harding Lawson Associates, Offsite Groundwater Survey, Exxon Station # 7-0104; HLA Project #10495 579; dated October 30, 1992.



Source: USGS Topographic Map, 7.5 minute series, Oakland East, Calif. and San Leandro, Calif. quadrangles, 1980

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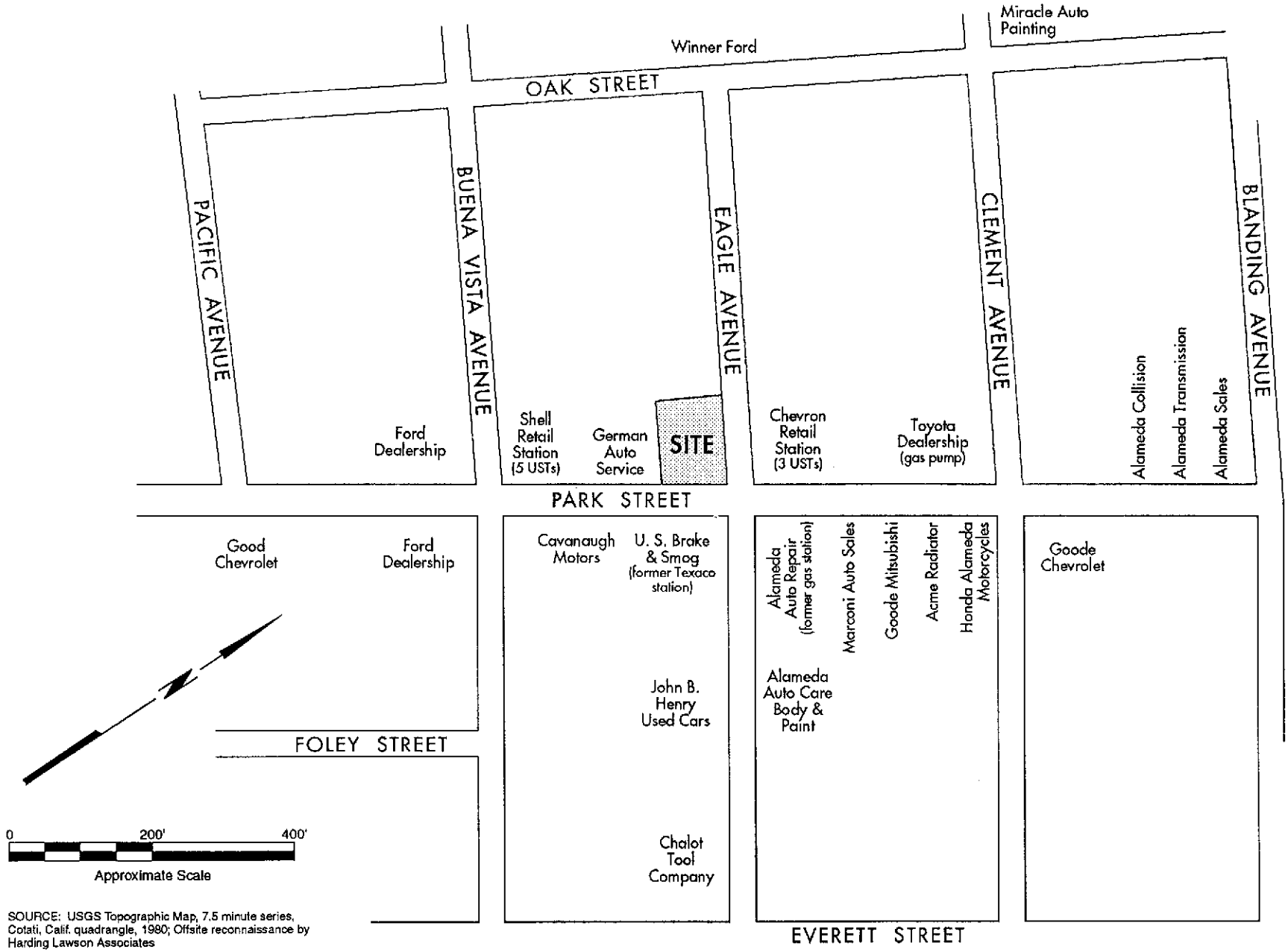
SITE VICINITY MAP

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

PLATE **1**



SOURCE: USGS Topographic Map, 7.5 minute series, Cotati, Calif. quadrangle, 1980; Offsite reconnaissance by Harding Lawson Associates

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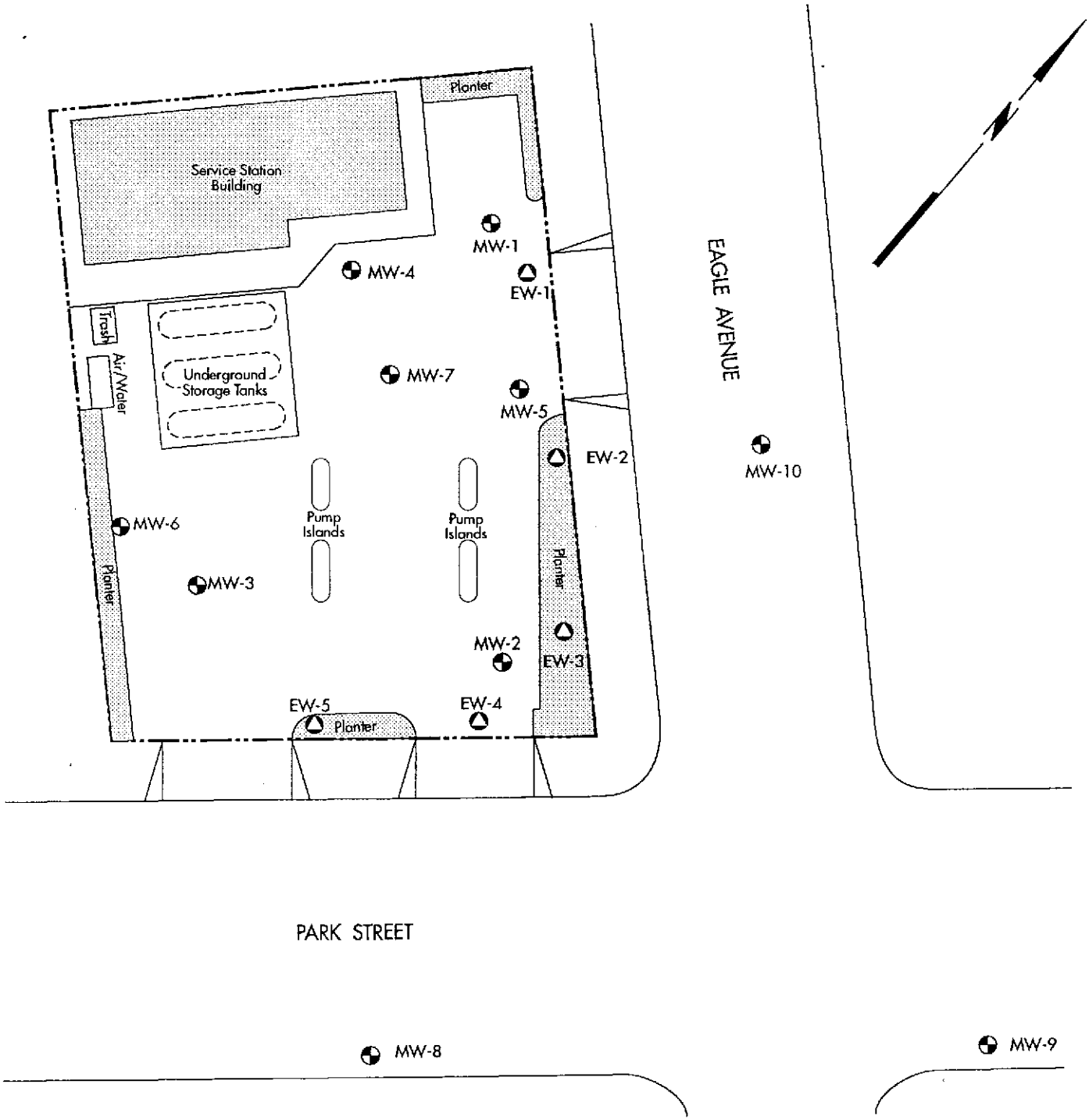
AREA MAP

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

PLATE
2



EXPLANATION

- MW-1 Monitoring well location
- EW-1 Extraction well location

Map Source: Site Map by Harding Lawson Associates, 1992; survey by Ron Archer, Civil Engineer, Inc., 1993

0 30' 60' 90'

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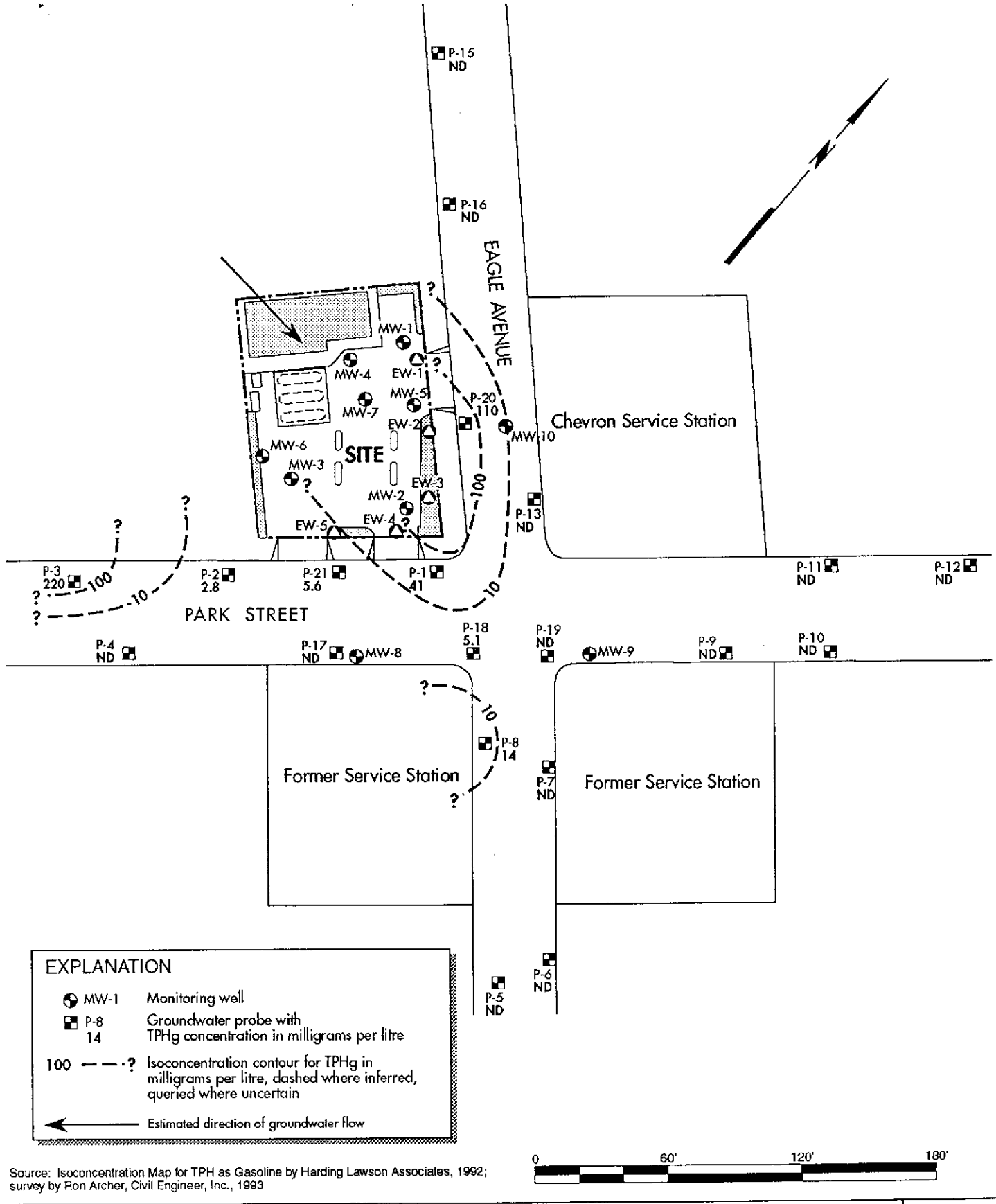
GENERALIZED SITE PLAN

Exxon Service Station No. 7-0104
1725 Park Street
Alameda, California

PLATE **3**



Source: Isoconcentration Map for TPH as Gasoline by Harding Lawson Associates, 1992; survey by Ron Archer, Civil Engineer, Inc., 1993

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CONCENTRATIONS OF TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (TPHg) IN GROUNDWATER—OFFSITE SURVEY

Exxon Service Station No. 7-0104
1725 Park Street, Alameda, California

PLATE
4