In November 1998, Musco Excavators removed two single-post, semi-hydraulic hoists and one dual-post, hydraulic hoist with a clarifier from the site. Soil samples were collected beneath each of the hoists at depths ranging from 7.5 to 8 feet bsg. Trace metals were detected in a soil sample collected beneath the dual-post hoist and clarifier.

Property Boundary and Land Use

The subject is currently operated as retail fueling station. Martin Luther King Way borders the site to the east, 55th Street to the south, and commercial businesses and residential housing to the north and west. The site consists of a station building, two dispenser islands, and three USTs that share a common pit near the southern site boundary. Pertinent site features are shown on Figure 2. Site photographs, with descriptions, are included in Enclosure A.

Site Sketch

A site map is presented in Figure 2. The following information is provided in the site map:

- Site property lines
- Existing UST locations
- Existing monitoring wells
- Street names
- Buildings on site and adjacent properties
- Drains
- Utility vaults and lines

Topography

The land surrounding the site is relatively flat. Regionally, the topography slopes gently to the west. A USGS topographic map with the site centered on the map is presented in Figure 1.

Distance To Surface Water Bodies

There are no surface water bodies within a one-mile radius of the site. The nearest surface water body identified is Glen Echo Creek, located approximately 7,400 feet southeast of the subject site.

Local Water Supply

The Alameda County Water District supplies water to Alameda County from three sources: treated surface water, purchased San Francisco water, and blended water. The treated surface water is imported from the Sacramento/San Joaquin Delta and/or Lake Del Valle via the South Bay Aqueduct. This water is purified at the local water treatment plants. Purchased San Francisco water is surface water, which originates in either Hetch Hetchy Reservoir in Yosemite National Park, or locally in Calaveras or San Antonio Reservoirs in the Alameda Creek watershed. Blended water consists of purchased San Francisco water and local groundwater. The groundwater supply comes from the Niles Cone Groundwater Basin and is replenished through infiltrations from local rainwater, runoff from the Alameda Creek watershed, and water from the South Bay Aqueduct.

Municipal Water Wells

Based on a review of available public records and reconnaissance in the vicinity of the site, there are no municipal water supply wells present within 2,000 feet of the site. Delta confirmed this by telephone with the County of Alameda Public Works Agency in May 2001.

R02

Delta
Environmental
Consultants, Inc.

3164 Gold Camp Drive
Suite 200
Rancho Cordova, CA 95670-6021
U.S.A.
916/638-2085
FAX: 916/638-8385

August 1, 2002

Ms. Karen Streich
Chevron Products Company
6001 Bollinger Canyon Road, Room L4050
San Ramon, CA 94502-6577

AUG 1 2 2002

Subject: *Sensitive Receptor Survey*
Chevron Service Station No. 9-1583
5509 Martin Luther King Way
Oakland, California
Delta Project No. DG91-583

Dear Ms. Streich:

Delta Environmental Consultants, Inc. (Delta) has been authorized by Chevron Products Company (Chevron) to conduct a sensitive receptor survey in the vicinity of Chevron Service Station No. 9-1583, located at 5509 Martin Luther King Way, Oakland, Alameda County, California. The location of the site is presented in Figure 1 and a site map is presented as Figure 2. Photographs of the site were taken in April 2002 and are presented in Enclosure A. The purpose of this survey was to identify potential sensitive receptors of the residual petroleum hydrocarbons in soil and groundwater at the site.

Project Background Information

Petroleum hydrocarbons in soil and groundwater related to the operation of product storage and dispensing systems at the site were first reported in December 1989. During a product line upgrade it was discovered that gasoline had been released from a product line located near the dispenser islands. The piping was replaced and an investigation of the extent of gasoline release was initiated. Petroleum hydrocarbons were detected in one soil sample collected from the product line trenches in December 1989.

Between December 1983 and March 1994, eight groundwater monitoring wells were installed to define the extent of petroleum hydrocarbons in soil and groundwater. Quarterly groundwater monitoring was initiated in March 1990. Groundwater monitoring wells are currently sampled on a semi-annual and annual basis. In general, groundwater beneath the site flows toward the east-southeast.

In April 1995, the used oil underground storage tanks (USTs) was removed from the northwest corner of the site. Soil samples were collected from the base of the excavation at a depth of approximately 11 feet below surface grade (bsg). Petroleum hydrocarbons and trace metals were detected in soil samples collected. The former UST basin was overexcavated to approximately 12.5 feet bsg. In May 1995, approximately 80 cubic yards of used oil-impacted soil was transported and disposed of at BFI Waste Systems in Livermore, CA.

Private Water Wells

On April 24, 2002, Delta conducted a search of Department of Water Resources (DWR) files for domestic, municipal, and irrigation supply wells within 2,000 feet of the subject site. Two well sites were identified from the DWR search and were listed as active. One of the well sites was listed as an industrial well and the other as a cathodic protection well. The industrial well is located approximately 1,200 feet northwest of the subject site. An inventory of wells identified within 2,000 feet of the subject site is presented in Table 1. The well locations are presented on Figure 3.

Utilities and Vaults

During the site visit conducted by Delta on April 26, 2002, there were no man-sized utility vaults identified within the search area. However, several minor utility vaults were identified that included Pacific Bell and PG&E. Utilities identified adjacent to the site included: storm drains, sanitary sewer, TV cable, and water buried at depths between 4 and 22 feet bsg. Historical depth to groundwater at the site has ranged between 6.70 and 13.99 feet bsg. Storm drains were located throughout the site and were measured at approximately 3.0 feet bsg. Their trenches could act as a potential pathway of dissolved and vapor phase hydrocarbons. Locations of utilities are shown on Figure 2.

Photographs of the vault boxes are presented in Enclosure A as photographs 7 through 10. Photographs 7 and 8 depict electrical vault boxes along the east property boundary, photorgraph 9 depicts two electrical vault boxes and a telephone vault box along the east property boundary, and photograph 10 depicts an electrical vault box along the south property boundary.

Basements and Tunnels

There were no basements or tunnels identified a 250-foot radius of the site.

Aquifer Information

The water-bearing material beneath the site has not been classified as a potential source of drinking water. Delta confirmed this in a telephone conversation with the County of Alameda Public Works Agency in May 2002.

Remarks/Signatures

The interpretations contained in this report represent our professional opinions and are based, in part, on information supplied by the client. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

If you have any questions regarding this document, please contact Ben Heningburg at 916-536-2623.

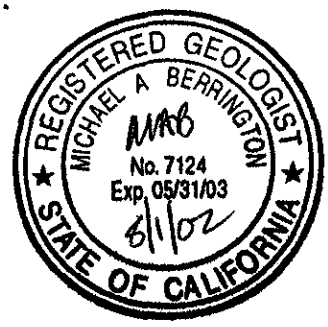
Sincerely,

DELTA ENVIRONMENTAL CONSULTANT, INC.

Brett A. Bardsley
Staff Geologist

Benjamin F. Heningburg
Project Manager

Mike A. Berrington, R.G.
California Registered Geologist No. 7124



BAB (LRP001.9-1583)
Enclosure
cc: Mr. Jim Brownell – Delta Environmental Consultants
Ms. Donna Drogos - Alameda County Health Care Services

ENCLOSURE A

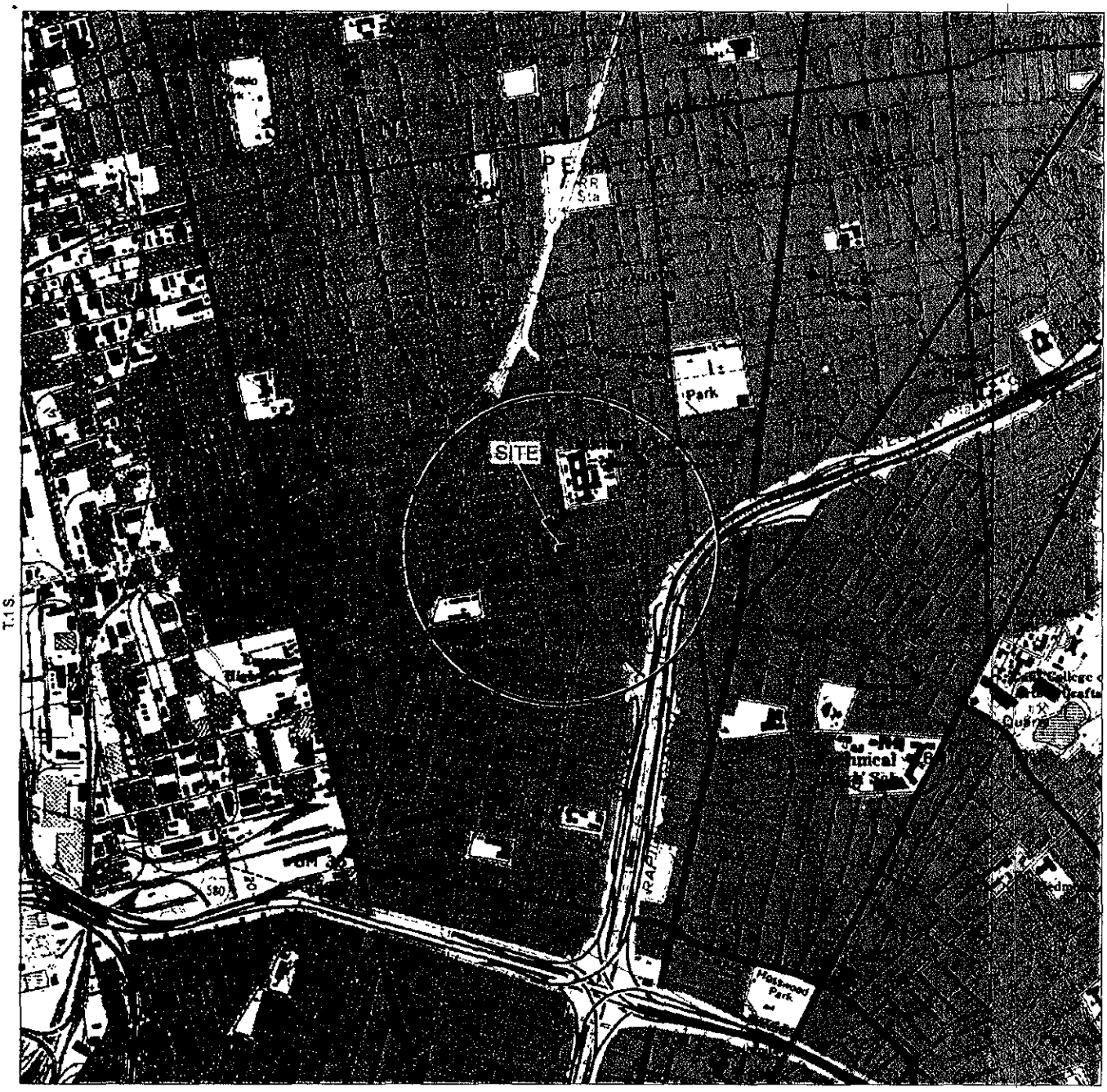
Site Photographs – April 2002

TABLE 1

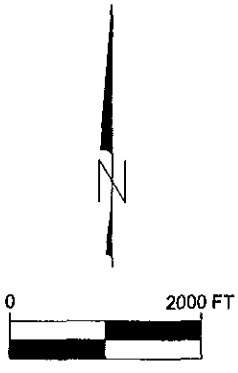
INVENTORY OF WATER WELLS WITHIN 2,000 FEET OF SITE

Chevron Service Station No. 9-1583
5509 Martin Luther King Way,
Oakland, California

Site Map Location	DWR Well I.D.	Well Location	Date Drilled	Proposed Use	Total Depth (ft)	Screened Interval(s) (ft)	Sanitary Seal Depth	Status
1	1S/4W 14L1	5702 B Adeline Street	07/26/77	Industrial	92	42-88	20	Active
2	1S/4W 14P1	4801 Oakport Street	04/11/74	Cathodic	120	None	93	Active



GENERAL NOTES:
BASE MAP FROM U.S.G.S.
OAKLAND WEST, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980



SCALE 1:24,000

FIGURE 1

SITE LOCATION MAP

CHEVRON SERVICE STATION NO. 9-1583
5509 MARTIN LUTHER KING WAY
OAKLAND, CA.

PROJECT NO. DG91-583	DRAWN BY M.L. 6/21/02
FILE NO. DG91583A	PREPARED BY BAB
REVISION NO. 2	REVIEWED BY

Delta Environmental Consultants, Inc.

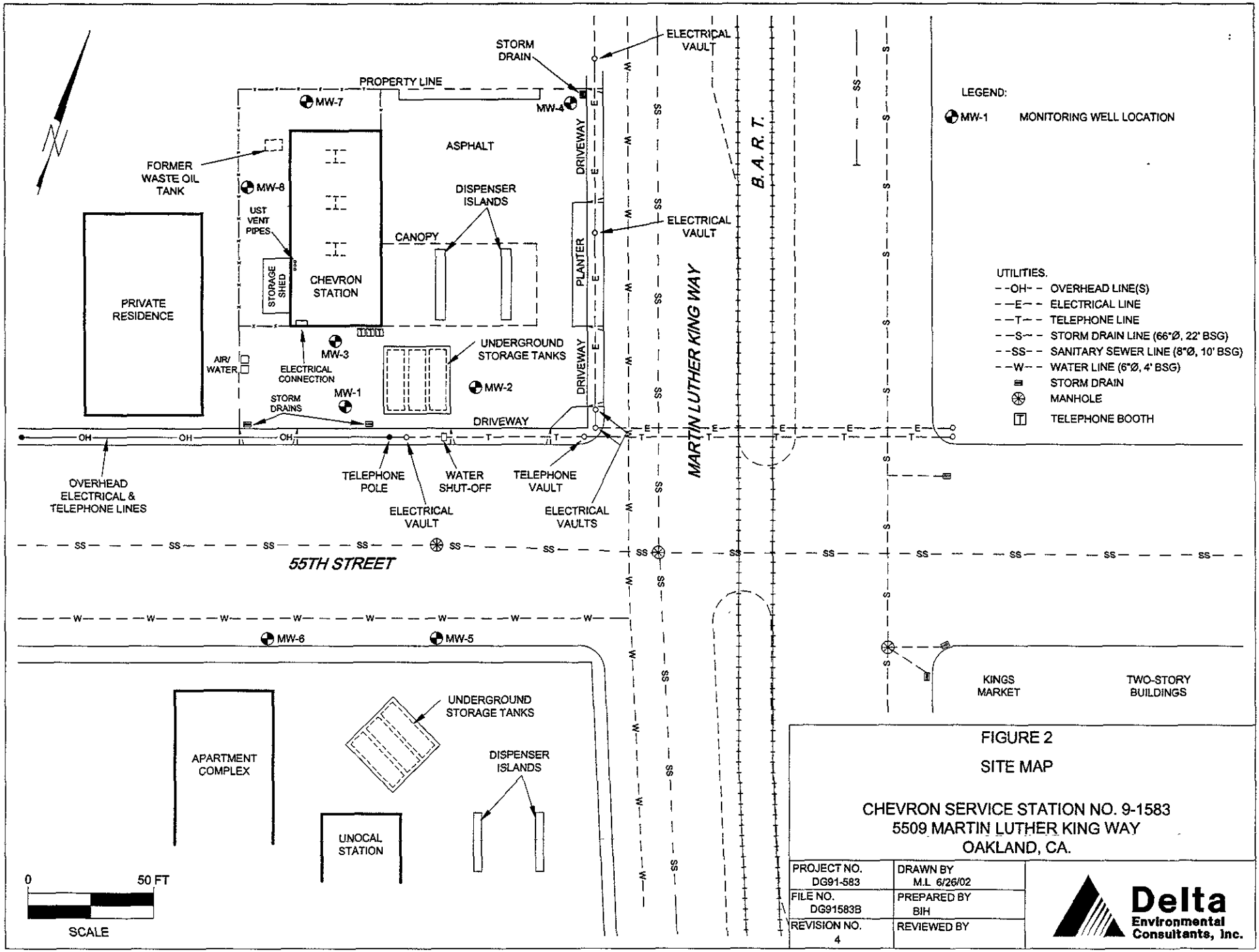


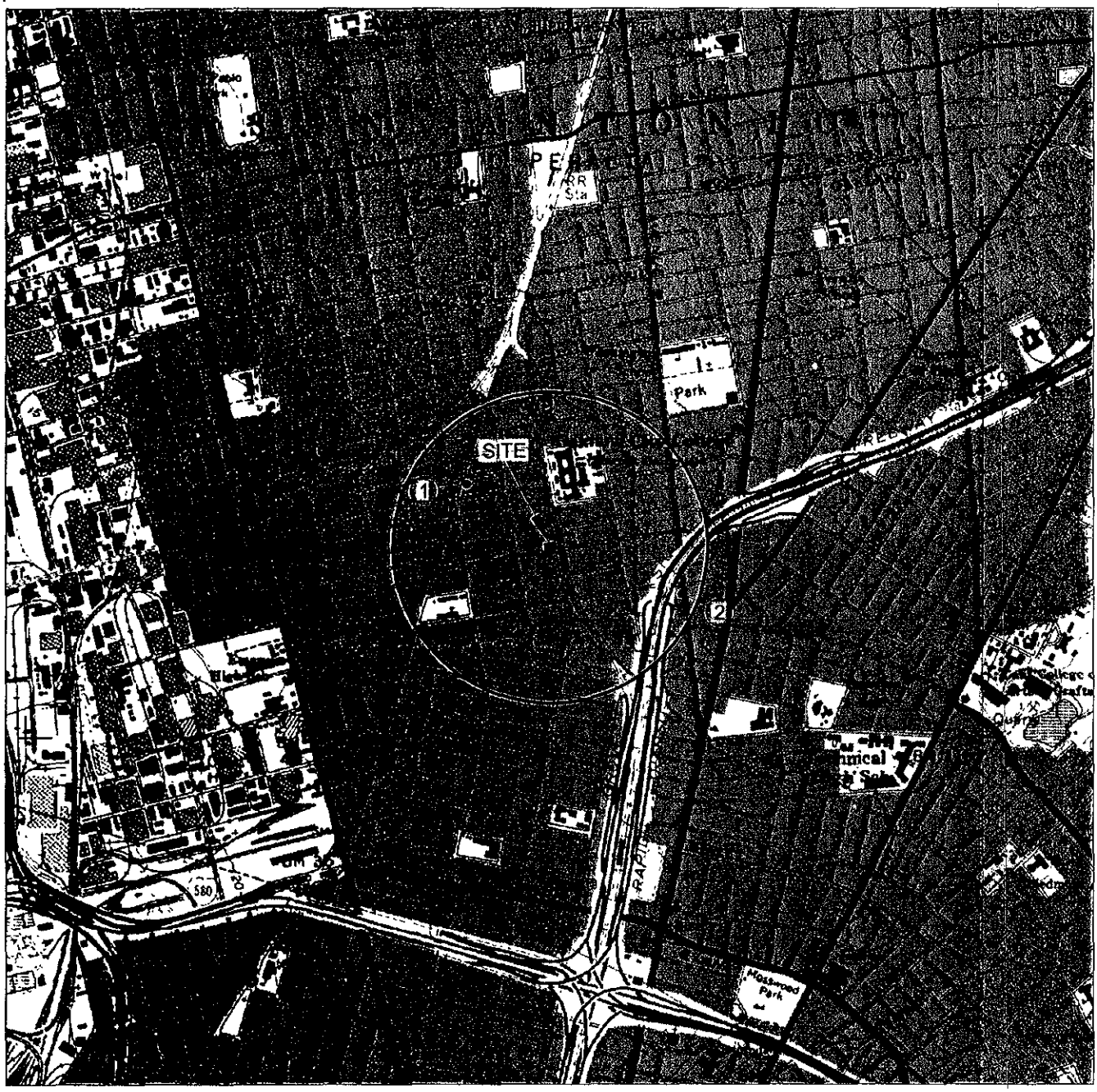
FIGURE 2

SITE MAP

CHEVRON SERVICE STATION NO. 9-1583
5509 MARTIN LUTHER KING WAY
OAKLAND, CA.

PROJECT NO. DG91-583	DRAWN BY M.L 6/26/02
FILE NO. DG91583B	PREPARED BY BIH
REVISION NO. 4	REVIEWED BY

Delta Environmental Consultants, Inc.



LEGEND.

(1) WATER WELL LOCATION

GENERAL NOTES:
BASE MAP FROM U.S.G.S.
OAKLAND WEST, CA.
7.5 MINUTE TOPOGRAPHIC
PHOTOREVISED 1980

QUADRANGLE LOCATION

N

0 2000 FT

SCALE

FIGURE 3

WATER WELL LOCATION MAP WITHIN
A 2,000 FOOT RADIUS OF SITE

CHEVRON SERVICE STATION NO. 9-1583
5509 MARTIN LUTHER KING WAY
OAKLAND, CA.

PROJECT NO DG91-583	DRAWN BY M.L. 6/21/02
FILE NO. DG91583A	PREPARED BY BAB
REVISION NO 1	REVIEWED BY

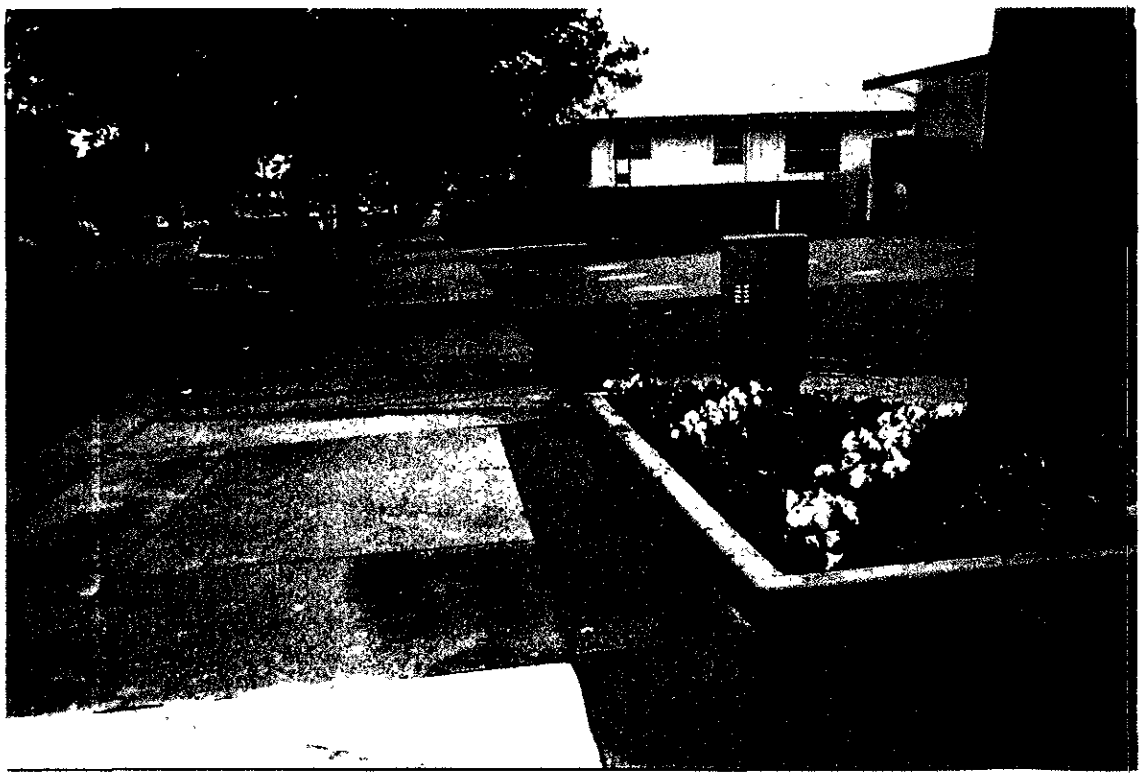
Delta Environmental Consultants, Inc.

ENCLOSURE A

Site Photographs – April 2002

Sensitive Receptor Survey
Chevron Service Station No. 9-1583
5509 Martin Luther King Way
Oakland, California

1. North corner facing southeast along property boundary.



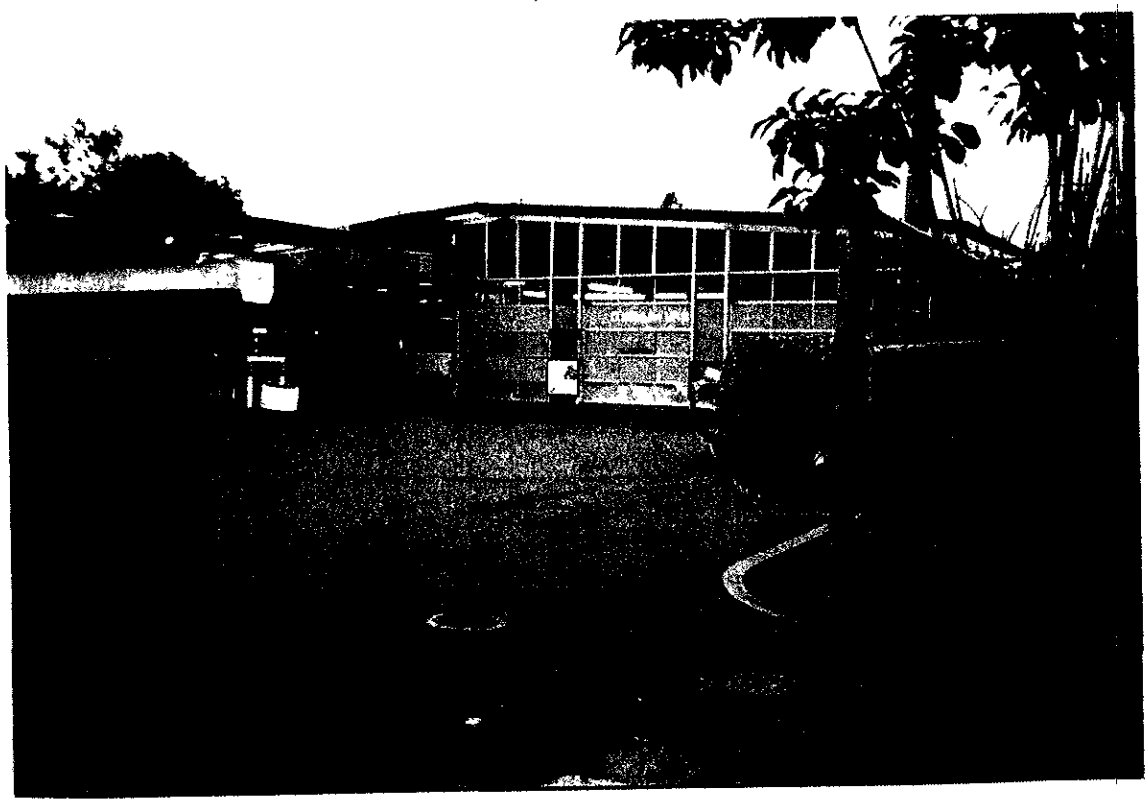
2. East corner facing southwest along property boundary.

Sensitive Receptor Survey
Chevron Service Station No. 9-1583
5509 Martin Luther King Way
Oakland, California

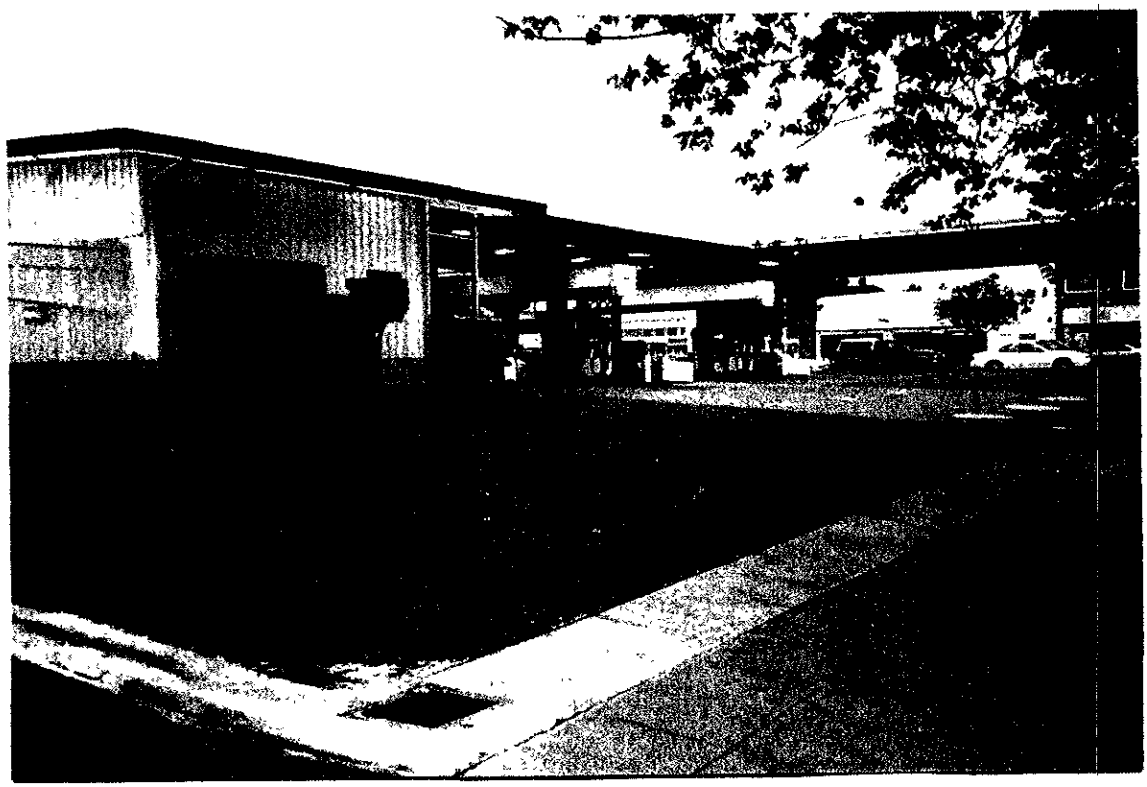
3. South corner facing northwest along property boundary.

4. West corner facing northeast along property boundary.

Sensitive Receptor Survey
Chevron Service Station No. 9-1583
5509 Martin Luther King Way
Oakland, California



5. Front half of station building facing south.

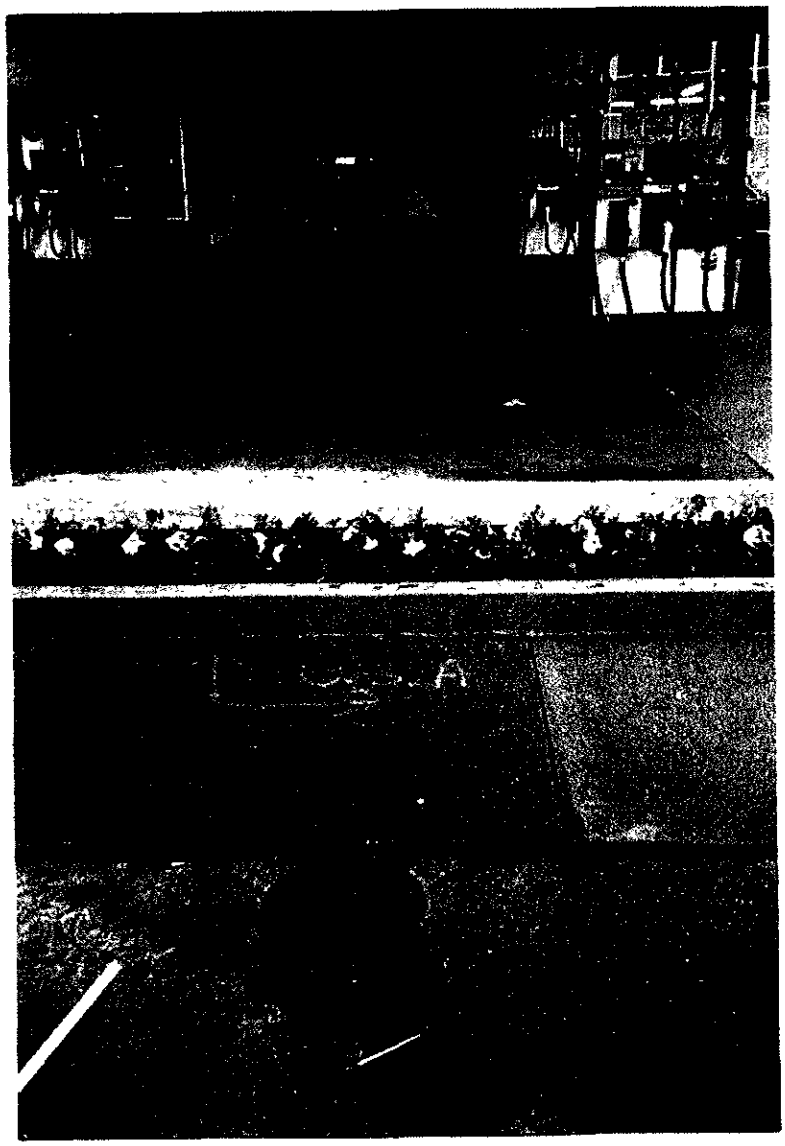


6. Back half of station building facing north.

Sensitive Receptor Survey
Chevron Service Station No. 9-1583
5509 Martin Luther King Way
Oakland, California

7. Electrical vault box along east property boundary.

Sensitive Receptor Survey
Chevron Service Station No. 9-1583
5509 Martin Luther King Way
Oakland, California

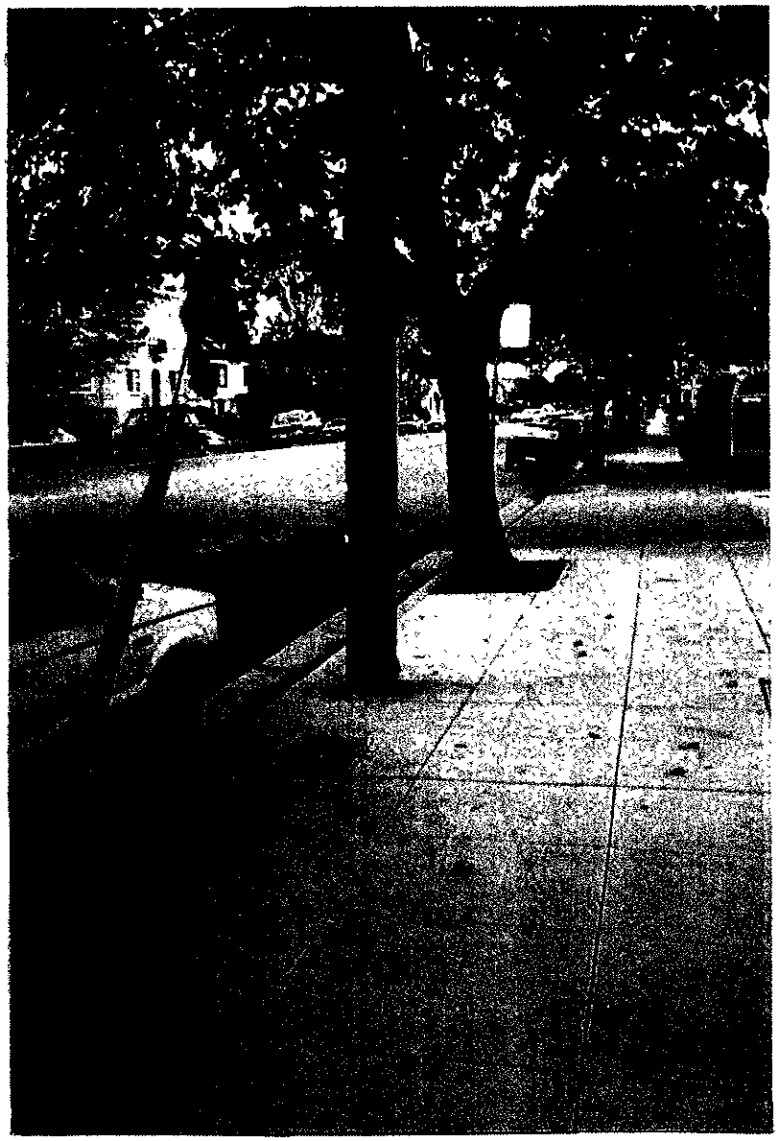


8. Electrical vault box along east property boundary.

Sensitive Receptor Survey
Chevron Service Station No. 9-1583
5509 Martin Luther King Way
Oakland, California

9. Electrical and telephone vault boxes along east property boundary.

Sensitive Receptor Survey
Chevron Service Station No. 9-1583
5509 Martin Luther King Way
Oakland, California



10. Electrical vault box along south property boundary.