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GETTLER-RYAN INC.

TRANSMITTAL

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P.O. Box 6004
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DATE: October 15, 2001
PROJ. #: DGDG90121G.4C01
SUBJECT: Chevron #9-0121
3026 Lakeshore Avenue
Oakland, California

FROM:

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SITE CONCEPTUAL MODEL

for
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

Report No. DG90121C.4C01
Delta Project No. DG90-121

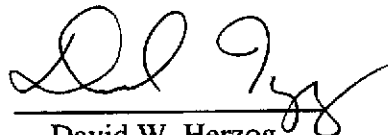
OCT 18 2001

Prepared for:

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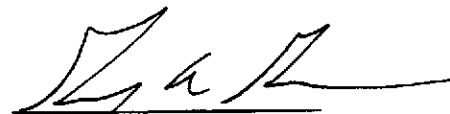
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October 15, 2001

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SITE CONCEPTUAL MODEL

for
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

Report No. DG90121C.4C01
Delta Project No. DG90-121

INTRODUCTION

At the request of Chevron Products Company (Chevron), Delta Environmental Consultants, Inc. network associate Gettler-Ryan Inc. (GR) is submitting this report presenting the site conceptual model (SCM) for Chevron Service Station #9-0121 located at 3026 Lakeshore Avenue in Oakland, California. The purpose of this work is to evaluate whether the implementation of further environmental investigation and/or remediation related to soil and groundwater is warranted at the site. This report was prepared based on information supplied by Chevron, and describes site hydrogeological conditions and distribution of contaminants in space and time, identifies potential current and future receptors, and recommends an appropriate action plan for the site.

SITE DESCRIPTION

The subject site is an active service station located on the southern corner of the intersection of Lakeshore Avenue and MacArthur Boulevard. Aboveground facilities consist of an island marketer, six dispenser islands located in the central portion of the site, and a storage/restroom building located in the southern corner of the site. Three gasoline underground storage tanks (USTs) and one diesel UST share a common pit near the northern corner of the site. A 7-foot diameter storm drain is located along the southeastern property line.

The site is located at the western edge of Piedmont Hills, approximately 800 feet northeast of Lake Merritt. The topography of the site and its northern and western vicinity is relatively flat, however, the surface southeast and east of the site slopes steeply toward the site.

The site vicinity is used for transportation, commercial, residential, and recreational purposes. The site is bounded by Lakeshore Avenue to the northwest, MacArthur Boulevard to the northeast, Excelsior Court to the southeast, and commercial properties to the southwest. The nearest commercial building (3014 Lakeshore) is located along the southwestern border of the subject site. Residential apartment complexes are present south and southeast of the site across Excelsior Court. The nearest residential buildings are located approximately 10 feet south and 40 feet southeast of the subject site boundary. First floors of these buildings are used for garages. Lake Merritt Park is

located approximately 90 feet northwest of the subject site across Lakeshore Avenue. Interstate 580 is located north and northeast of the site parallel to MacArthur Boulevard.

PREVIOUS ENVIRONMENTAL WORK

Hydrocarbon Release and UST Replacement

Chevron began service station operations at the site in the 1950s. In 1967, a 2,000-gallon inventory loss was discovered. The adjacent property owner (presumably at 3014 Lakeshore) complained about gasoline odors in the basement. The steel USTs were replaced with new USTs double wrapped in asphalt. A 32" long gash was observed in one of the removed tanks.

Leak Detection, UST Replacement, and Installation of Recovery System

In 1980, a tenant in the adjacent building complained of a gasoline odor most likely from the air conditioning system that obtained air from the basement, which created negative pressure in the basement that drew vapor from the subject site. A tank tightness test showed that the USTs at the Chevron site might have had a slight leak. The USTs were replaced with new fiberglass USTs and lines. The removed tanks were found to be tight, but some old product was found in the excavation. An unknown quantity of hydrocarbon impacted soil (reportedly several dozen truckloads) was removed from the site.

A recovery system consisting of a plastic barrier 14 to 16 feet deep was installed along the southwestern property line, against the basement wall of the adjacent building. Six wells were installed to recover any remaining product beneath the site, however, product and water infiltration problems continued in the adjacent building's basement.

Discovery of Free Product in Soil and Installation of Extraction Well

In May 1981, a large pocket of free product was discovered while checking on the remediation system. In July 1981, four additional observation wells were installed. A 24-inch diameter extraction well was installed near the UST pit area, but it appears that the recovery system was not turned on for any significant length of time. A pumping test performed in February 1982, indicated that groundwater depression could not be achieved even at 200 gallons per minute (heavy rains contributed to inflow of groundwater).

UST Abandonment and Station Remodel

In 1984, aboveground station facilities were renovated, but the USTs were not replaced. Two old USTs were discovered beneath the sidewalk and abandoned in place by filling with grout. Approximately 741 cubic yards of soil were removed during station reconstruction activities. It is not clear whether that soil was removed because of hydrocarbon impact. Tenants in the building at 3014 Lakeshore Avenue again complained of a gasoline odor in their building. No odor or sheen was noted in the basement sump during site inspection. In a letter sent to the property owner from

Chevron stated that during the two previous years that Chevron had been inspecting the basement of their building for odor or product in the sump, they did not find evidence of any hydrocarbons.

In March 1985, a water sample collected from the basement of the adjacent building (collected in response to an odor complaint) indicated a presence of aromatic compounds typical of gasoline products.

In December 1990, a gage stick hole was discovered in the unleaded gasoline UST. The hole was repaired and the UST went back into service.

In 1993, a drive off occurred and a small quantity of product was released into pea gravel beneath the dispenser.

Well Destruction and Installation of Monitoring Wells

In April 1991, the existing wells at the site were located and sampled, but it was observed that most of the wells were damaged beyond repair, most likely due to site reconstruction activities in 1984. All wells except the 24-inch extraction well were destroyed in July 1991. The extraction well was destroyed in September 1996.

Four 3/4-inch diameter on-site monitoring wells (MW-1 through MW-4) were installed in August 1991, and regular groundwater monitoring and sampling began. Four 2-inch diameter off-site monitoring wells (MW-5 through MW-8) were installed in July 1992.

Product Line and Dispenser Replacement

In September 1996, product lines and dispensers were replaced. Fifteen soil samples were collected from beneath the product lines and dispensers at depths ranging from 2.5 to 3 feet bgs). Soil sample chemical analytical data indicated that shallow soil beneath the site has been impacted by gasoline hydrocarbons.

Monitoring Well Installation and Replacement

In April 1999, groundwater monitoring well MW-9 was installed, and the 3/4-inch diameter wells MW-2 through MW-4 were abandoned and replaced with 2-inch diameter wells MW-2A through MW-4A, respectively.

All wells at the site except MW-5 are screened at various depths between 2 to 25 feet bgs. The screen interval in well MW-5 extends from 15 to 35 feet bgs. The top-of-casing of well MW-5 is at a higher elevation than the other wells at the site, and well MW-5 is in an area that appears to be semiconfined. Based on historical groundwater measurements (ranging from 9.74 to 13.75 feet bgs), the screened interval in the well is flooded, therefore, groundwater samples collected from well MW-5 may not detect gasoline hydrocarbons, which tend to concentrate near the groundwater surface.

Groundwater Monitoring and Sampling

Currently all on-site wells are sampled quarterly, and off-site wells are sampled biannually (MW-5 and MW-6) or annually (MW-7 and MW-8) for Total Petroleum Hydrocarbons as gasoline and diesel (TPHg and TPHd), benzene, toluene, ethylbenzene, and xylenes (BTEX), and methyl tert-butyl ether (MtBE). All wells are monitored quarterly. ORC was installed in well MW-1 in 1999 to enhance natural bioremediation. Historical groundwater monitoring and sampling data are in Appendix B, and historical potentiometric maps are in Appendix D.

During the most recent monitoring and sampling event on June 4, 2001, all wells were monitored, and only wells MW-1, MW-2A, MW-3A, MW-4A, and MW-9 were sampled. TPHg were detected in wells MW-1, MW-4A, and MW-9 at concentrations up to 3,200 ppb. Benzene and MtBE were detected in all wells ranging in concentrations from 2.0 to 310 ppb, and 37 to 7,800 ppb, respectively. TPHd were detected in all wells at concentrations up to 1,200 ppb. Figures 6 through 9 are isoconcentration maps for TPHg, benzene, MtBE, and TPHd, respectively, based on data collected during the March 1, 2001 event when all wells were sampled. Wells MW-5 through MW-8 are sampled semi-annually or annually, and were last sampled on March 1, 2001. At that time, these wells were non-detect for TPHg, TPHd, benzene, and MtBE, except for well MW-8 that had TPHd at a concentration of 51 ppb.

During the June 4, 2001 event, depth to water ranged from 1.52 to 11.31 feet below top of casing, with groundwater flow in the eastern corner of the site to the southeast, and flow to the southwest near the western corner of the site at gradients from 0.01 to 0.02.

Geology and Hydrogeology

The subject site is located approximately 1.75 miles northeast of the Oakland Inner Harbor, and approximately 3.75 miles northeast of San Francisco Bay. As mapped by E.J. Helley and others (1979, Flatland Deposits of the San Francisco Bay Region, California: U.S. Geological Survey Professional Paper 943), soil in the site vicinity consists of Holocene age estuarine deposits consisting of unconsolidated, water-saturated, dark, plastic clay and silty clay rich in organic material (Bay Mud) overlying Holocene age alluvial deposits of unconsolidated, moderately sorted, permeable sand and silt and Pleistocene alluvial deposits of weakly consolidated, poorly sorted, irregular interbedded clay, silt, sand, and gravel.

The boring logs indicate that the subject site is underlain by clays interbedded with silt, silty sand, and fine sand layers to the total depth explored of 35 feet bgs. Boring logs are included in Appendix E. Groundwater was encountered beneath the site at depths ranging from 4 to 10 feet bgs with the exception of well MW-5. Groundwater in well MW-5, which is located at the significantly higher elevation than the other wells, was encountered at a depth of 23 feet bgs and stabilized at a depth of 12.24 feet bgs. Groundwater in the area of well MW-5 appears to be in the semiconfined condition. Groundwater flow beneath the site is to the southwest in the northwestern part of the site and to the southeast under the eastern part of the site.

RECEPTOR SURVEY

Well Survey

Well data obtained by GR from the County of Alameda Public Works Agency (CAPWA) indicates that 33 monitoring wells and one cathode well are located within ½ mile of the Chevron site. Table 1 lists these wells and Figure 1 shows their locations. No water supply wells are located within ½ mile of the site according to the CAPWA.

Underground Utility Survey

GR obtained utility maps from the City of Oakland Public Works Department (sewer and storm drain), East Bay Municipal Utility District, or EBMUD (water), and Pacific Gas & Electric (gas and electric). Figure 2 shows the location of buried utility lines in the vicinity of the Chevron site.

Underground utility lines in Lakeshore Avenue include one 6'3"x10' storm drain, one 27-inch diameter sanitary sewer line, and water, gas, and electric lines. Underground utility lines in MacArthur Boulevard and Excelsior Court include sanitary sewer, gas, and water lines. Along the southeast property boundary of the Chevron site, adjacent to Excelsior Court, is a 7-foot diameter storm drain line located between approximately 6 to 13 feet below ground surface (bgs)

The specific depths of water, electric, or gas lines were not available, however these lines are usually buried shallower than 5 feet bgs. According to the EBMUD, water lines are usually buried between 3 and 5 feet bgs.

SITE CONCEPTUAL MODEL

The site conceptual model was prepared based on the site assessment and quarterly monitoring and sampling data collected at the site to date. A pictorial representation of the site conceptual model is presented on Figures 3 and 4.

Release Scenario and Plume Characterization

Shallow soil at the subject site has been impacted with fuel hydrocarbons at concentrations up to 4,100 parts per million (ppm) of TPHg, 100 ppm of TPHd, 40 ppm of benzene, and 31 ppm of MtBE. Impacted soil is present within a smear zone (2.5 to 11 feet bgs) over the area of the dissolved hydrocarbon plume. The highest hydrocarbon concentrations have been present in soil beneath the northern and middle dispenser islands. An unverified amount of soil has been removed from the site during UST replacement in 1980 and site reconstruction in 1984.

Groundwater beneath the site has been impacted by fuel hydrocarbons. Historically, floating product was present on groundwater beneath the site. A recovery system was installed which consisted of a 14 to 16 foot deep plastic barrier along the southwestern (downgradient) property boundary, and seven recovery wells.

Hydrocarbons have been detected in groundwater beneath the site at concentrations up to 60,000 parts per billion (ppb) of TPHg, 7,100 ppb of benzene, and 160,000 ppb of TPHd. MtBE has been reported at concentrations up to 63,000 ppb by EPA Method 8020. The highest hydrocarbon concentrations have been present in wells MW-1 and MW-2. These two wells have also contained floating product or product sheen (up to 0.75 feet thick). Floating product was removed from well MW-2 between June 1995 and March 1999 by bailing (total of 0.364 gallons removed).

Currently, floating product is not present on groundwater beneath the site. Hydrocarbon concentrations have decreased significantly in on-site wells MW-1 and MW-2A through MW-4A, and have not changed significantly in on-site well MW-9, since well installation. TPHg, benzene, and MtBE concentrations in off-site wells MW-5 through MW-8 generally have remained non-detectable (low concentrations detected only on few occasions), and TPHd concentrations in these wells decreased. However, groundwater samples collected from well MW-5 may not be representative of shallow groundwater conditions because of a deeper screen interval. In December 1998, groundwater samples from wells MW-1 and MW-3 through MW-8 were analyzed for bioremediation indicator parameters (sulfate, nitrate, ferrous iron and total alkalinity) to evaluate the occurrence of intrinsic bioremediation. Results of the analysis were inconclusive.

The existence of the plastic barrier influences groundwater flow direction beneath the site, causing groundwater mounding in the western portion of the site. West of the barrier, the groundwater flow direction has been consistently toward the southwest. In the eastern portion of the site, the groundwater has been flowing generally toward the southeast. The groundwater flow direction in the eastern and southern portions of the site may be influenced by the presence of the 7-foot-diameter storm drain. The gradient has ranged from 0.01 to 0.03

TPHg, benzene, and MtBE have been delineated to the west, north and east in wells MW-6, MW-7, and MW-8. Unidentified hydrocarbons in the TPHd range are present in wells MW-6 and MW-8 at concentrations of 190 ppb and 51 ppb, respectively. The dissolved hydrocarbon plume appears to be shrinking. However, the groundwater condition beneath the commercial buildings immediately southwest of the subject site (downgradient side of the plastic barrier) is unknown. The plume has not been delineated downgradient (southeast) of well MW-3A, and plume delineation south of the site is not certain due to the deeper screen interval in well MW-5.

Potential Environmental Receptors

The hydrocarbon plume extends beneath the area, which currently is used for commercial purposes (gasoline sale) and transportation (Lakeshore Avenue and possibly MacArthur Boulevard and Excelsior Court). Most of this area is paved with asphalt or concrete. The Chevron island marketer building is present within the plume area. The edges of the plume may extend beneath the building located at 3014 Lakeshore Avenue, which is adjacent to the southwest property boundary of the Chevron site, however, the hydrocarbon concentrations in this area are expected to be low. The nearest residential buildings, located southeast of the site across Excelsior Court, are most likely

outside the plume area based on analytical data from wells MW-3A and MW-5. No water producing wells are located within ½ mile of the Chevron site.

Potential exposure receptors include current and future workers and customers of the Chevron station and building at 3014 Lakeshore Avenue, motorists, pedestrians, and utility maintenance workers. The potential exposure mediums are ambient air, indoor air in buildings, and soil and groundwater in potential future excavation areas. The major exposure pathway is hydrocarbon volatilization from smear zone soils and groundwater to ambient and indoor air. The potential exposure pathway for utility maintenance workers is dermal contact with hydrocarbon-impacted soil and groundwater.

Other Environmental Issues

The dissolved hydrocarbon plume has not been delineated southeast of MW-3A (downgradient, toward residential buildings). Delineation to the south by MW-5 is questionable due to a flooded screen interval in that well. Replacement of well MW-5 and installing an additional well or boring on the south side of Excelsior Court should be considered. Data from these wells/borings could be used for a Risk Based Correction Action (RBCA) evaluation (residential receptor).

Hydrocarbon concentrations in groundwater beneath the building at 3014 Lakeshore Avenue, adjacent to the southwestern Chevron site property line (downgradient of the plastic barrier) are unknown. Water samples should be collected from the pump sump in the basement of that building and analyzed. Data could be used for a RBCA evaluation (commercial receptor).

Several underground utility lines are present near the subject site, including a 7-foot diameter storm drain along the southeastern property line and a sewer line beneath the southern side of Lakeshore Avenue. Due to shallow groundwater conditions, utility trenches may be a factor in plume migration.

DISCUSSION AND RECOMMENDATION

Site conditions consist of petroleum-impacted soil and groundwater. Hydrocarbon impacted soil appears to be present within the smear zone between approximately 2 and 11 feet bgs. Concentrations of hydrocarbons in groundwater beneath the site have been decreasing. Natural attenuation processes appear to be facilitating concentration decreases and limiting hydrocarbon migration.

The dissolved hydrocarbon plume has been delineated to the west, north, and east, but not to the south. The northwestern edge of the plume may extend beneath Lakeshore Avenue, and the southeastern edge of the plume may extend beneath Excelsior Court, where underground utilities are present. Due to shallow groundwater conditions, the utility trenches may act as preferential pathways and conduits that could enhance contaminant migration.

Since the primary sources have been removed and the plume appears to be shrinking, natural attenuation may be the preferable approach to remediate the site. However, before this approach is considered, potential threats to human health and the environment must be evaluated. The existing

TABLE 1 - WELL SEARCH DATA

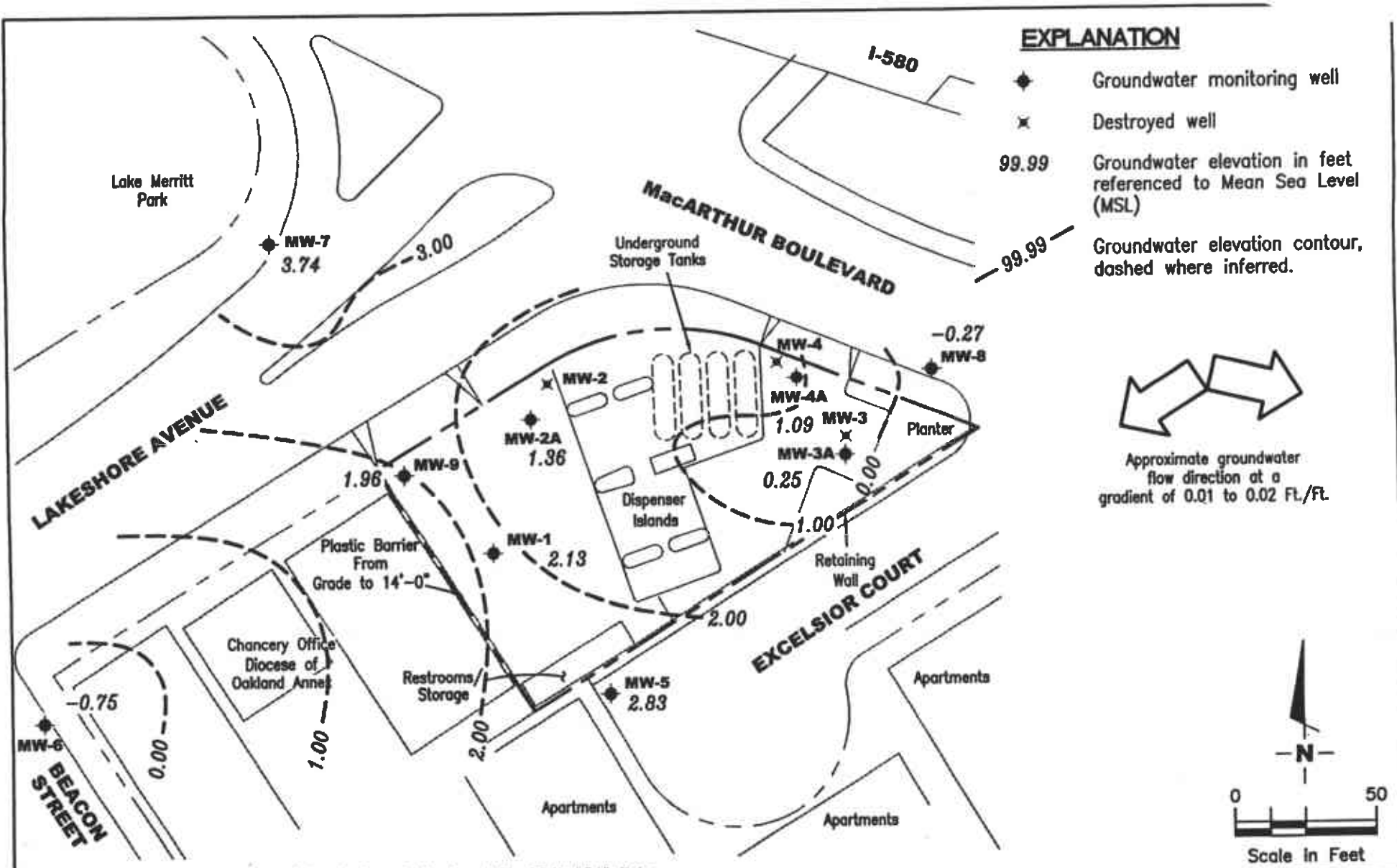
Chevron Service Station No. 9-0121
3026 Lakeshore Avenue
Oakland, California

| Map ID ^[1] | Well Owner | Well Location | Alameda County Well ID | Well Use | Year Installed |
|-----------------------|-----------------------|------------------------------------|------------------------|-------------|----------------|
| 1 | Chevron USA | 460 Grand Avenue | 1S/4W 25P16 | Monitoring | 1995 |
| 2 | EBMUD | Athol Avenue & Macarthur Boulevard | 1S/3W 31D1 | Cathode | 1998 |
| 3 | Lamorinda Development | 3329 Lakeshore Avenue | 1S/4W 25J1 | Monitoring | 1994 |
| 4 | Quik Stop Markets | 363 Grand Avenue (3 Wells) | 1S/4W 25P1-3 | Monitoring | 1988 |
| 4 | Quik Stop Markets | 363 Grand Avenue (5 Wells) | 1S/4W 25P4-8 | Monitoring | 1990 |
| 4 | Quik Stop Markets | 363 Grand Avenue | 1S/4W 25P12 | Monitoring | 1990 |
| 5 | Ranger Pipeline | 637 Beacon | 1S/4W 25R1 | Monitoring | 1989 |
| 6 | Shell Oil Company | 350 Grand Avenue | 1S/4W 25P9 | Piezometer | 1990 |
| 6 | Shell Oil Company | 350 Grand Avenue (2 Wells) | 1S/4W 25P10-11 | Monitoring | 1991 |
| 7 | Texaco Inc. | 500 Grand Avenue (4 Wells) | 1S/4W 25Q1-4 | Monitoring | 1988 |
| 7 | Texaco Inc. | 500 Grand Avenue (2 Wells) | 1S/4W 25Q1-2 | Monitoring | 1989 |
| 7 | Texaco Inc. | 500 Grand Avenue (3 Wells) | 1S/4W 25Q3-4 | Monitoring | 1990 |
| 7 | Texaco Inc. | 500 Grand Avenue (2 Wells) | 1S/4W 25Q10-11 | Monitoring | 1993 |
| 8 | Unocal Corporation | 3220 Lakeshore Avenue | 1S/4W 25R2 | Monitoring | 1990 |
| 8 | Unocal Corporation | 3220 Lakeshore Avenue (2 Wells) | 1S/4W 25R3-4 | Test | 1990 |
| 8 | Unocal Corporation | 3220 Lakeshore Avenue (3 Wells) | 1S/4W 25R22-24 | Monitoring | 1994 |
| 8 | Unocal Corporation | 3220 Lakeshore Avenue | 1S/4W 25R25 | Observation | 1997 |

Notes

Well data in this table obtained from the County of Alameda Public Works Agency.

^[1]Well location numbers correspond to Figure 1.



Source: Figure modified from drawings provided by RRM engineering contracting firm and City of Oakland Public Works.

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POTENTIOMETRIC MAP
 Chevron Service Station #9-0121
 3026 Lakeshore Avenue
 Oakland, California

FIGURE

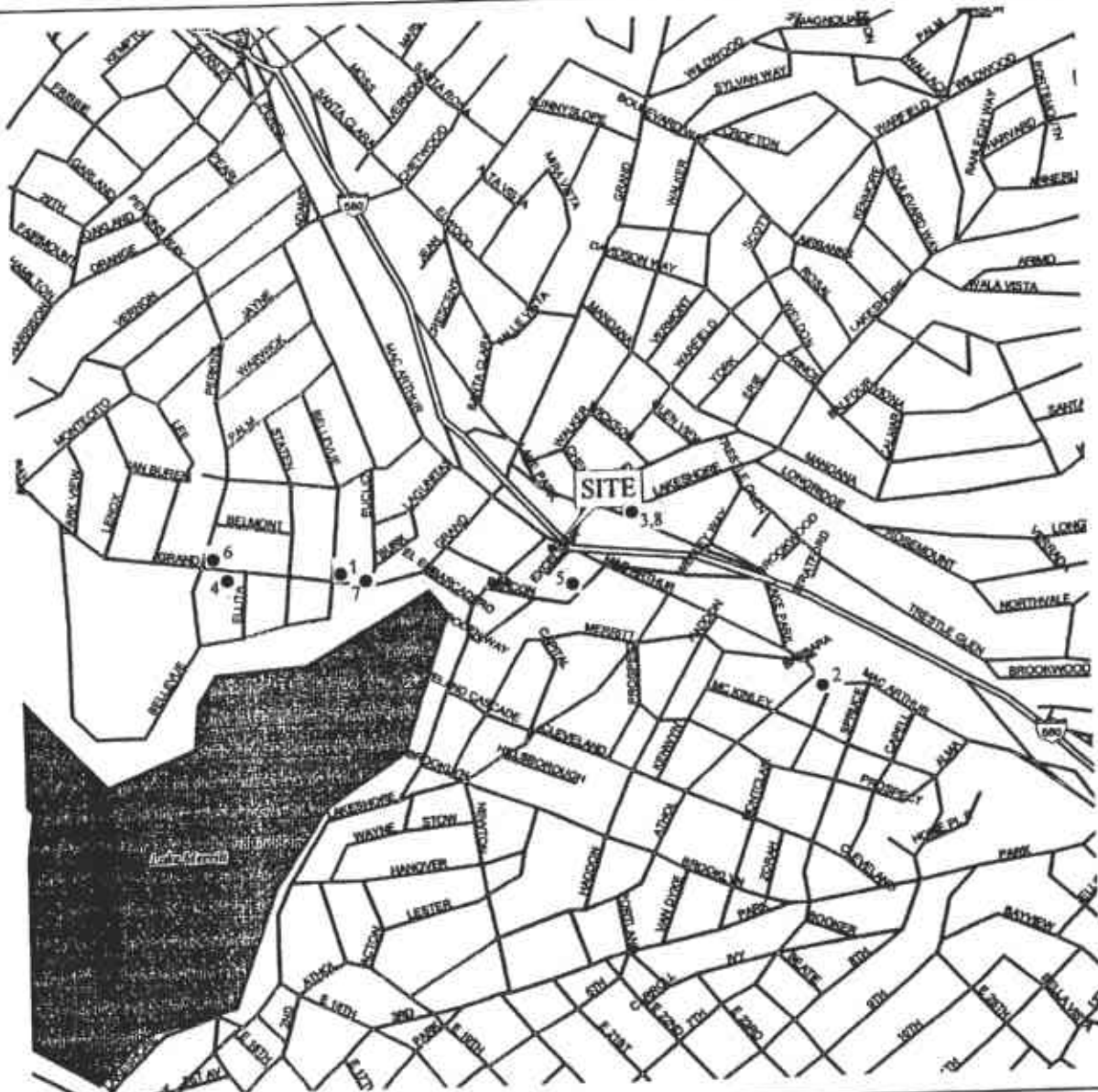
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DATE
 June 4, 2001

REVISED DATE



Source: Street Atlas USA, Delorme (1995).

FIGURE



Gettler - Ryan Inc.

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 Dublin, CA 94568

VICINITY MAP
 Chevron Service Station No. 9-0121
 3026 Lakeshore Avenue
 Oakland, California

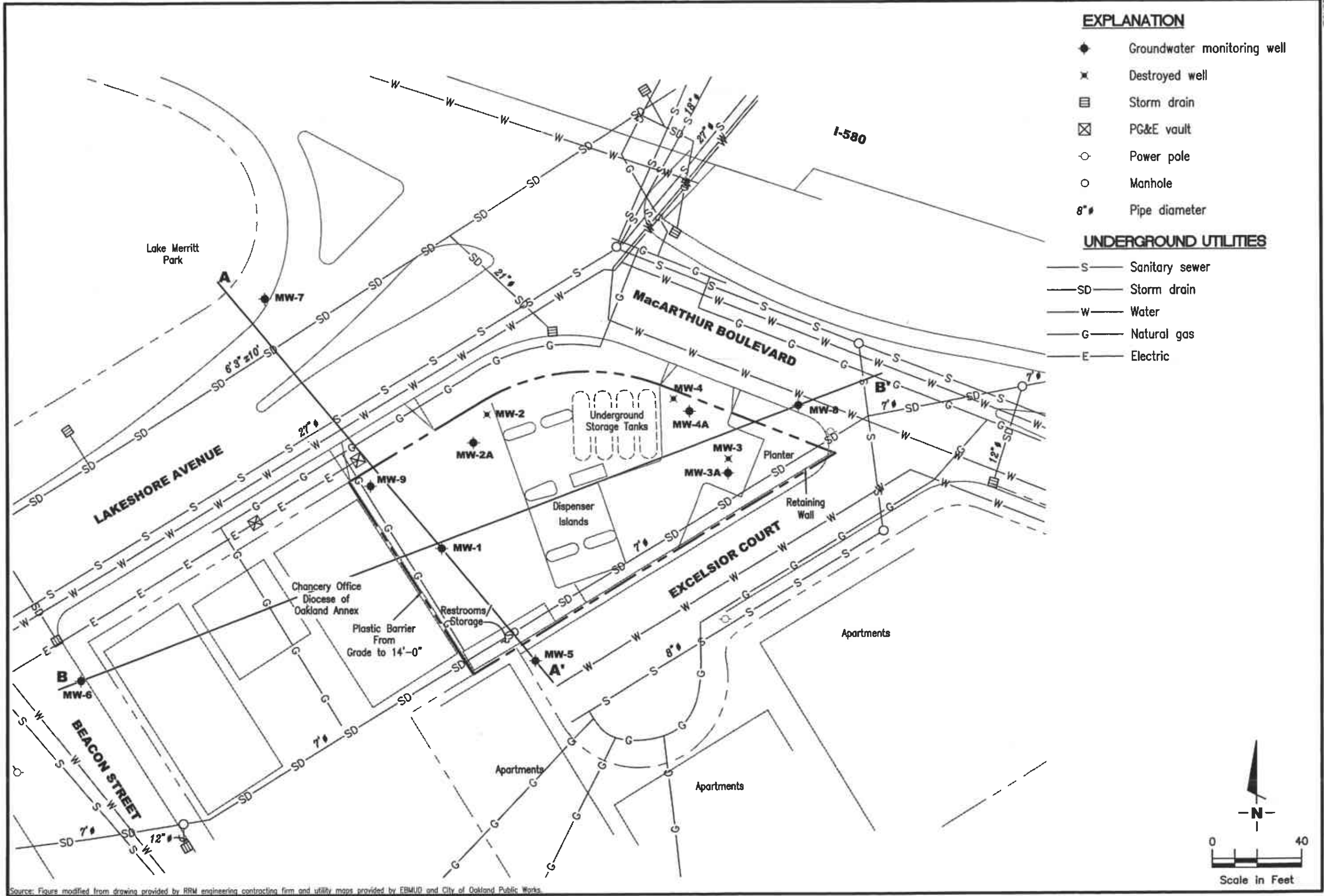
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JOB NUMBER
 346462

REVIEWED BY

DATE
 05/99

REVISED DATE



EXPLANATION

- ◆ Groundwater monitoring well
- × Destroyed well
- ▤ Storm drain
- ⊠ PG&E vault
- Power pole
- Manhole
- 8" Pipe diameter

UNDERGROUND UTILITIES

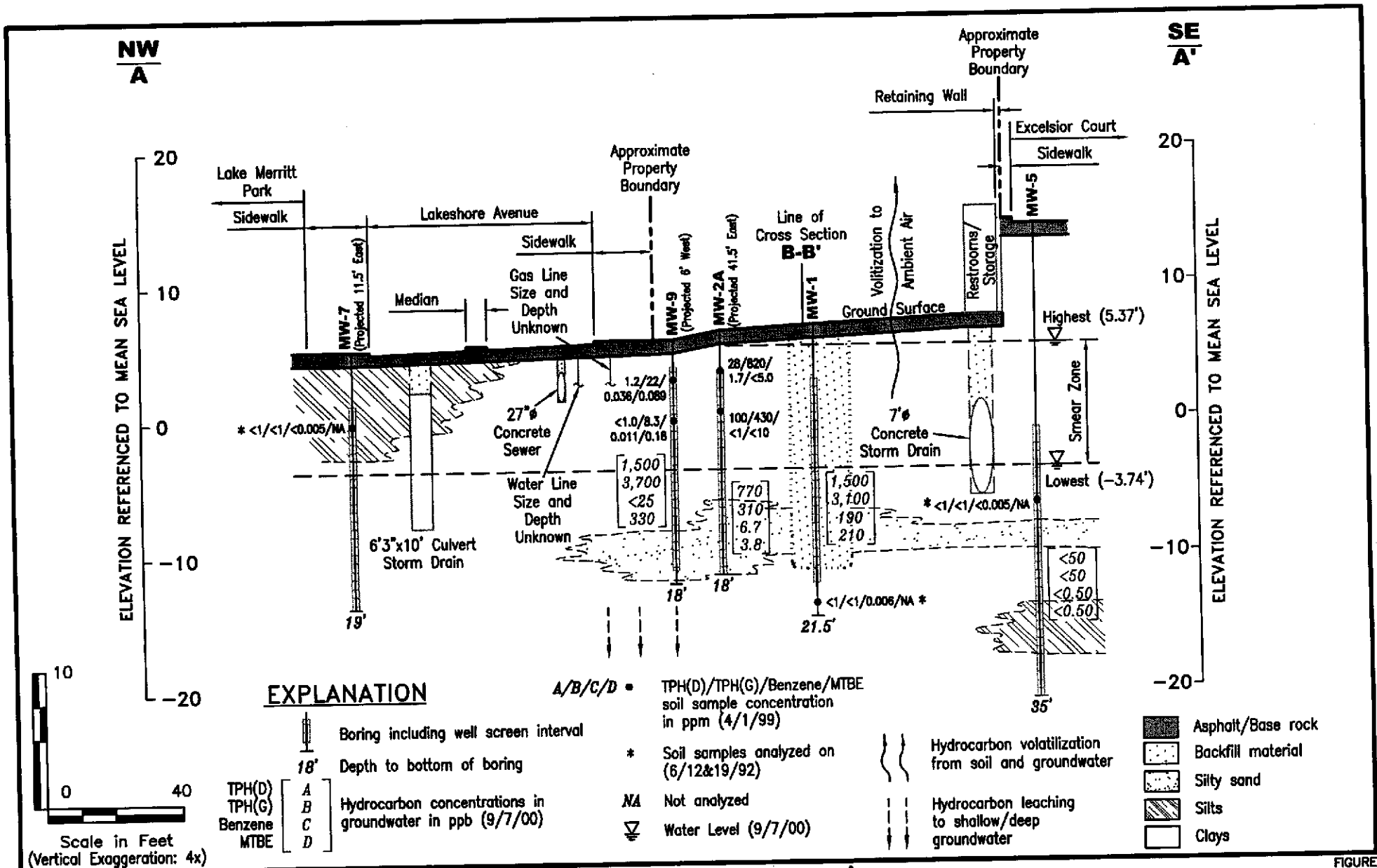
- S— Sanitary sewer
- SD— Storm drain
- W— Water
- G— Natural gas
- E— Electric

Source: Figure modified from drawing provided by RRM engineering contracting firm and utility maps provided by EBMUD and City of Oakland Public Works.

SITE PLAN/UTILITY MAP
 Chevron Service Station No. 9-0121
 3026 Lakeshore Avenue
 Oakland, California

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CROSS SECTION A-A'
 Chevron Service Station No. 9-0121
 3026 Lakeshore Avenue
 Oakland, California

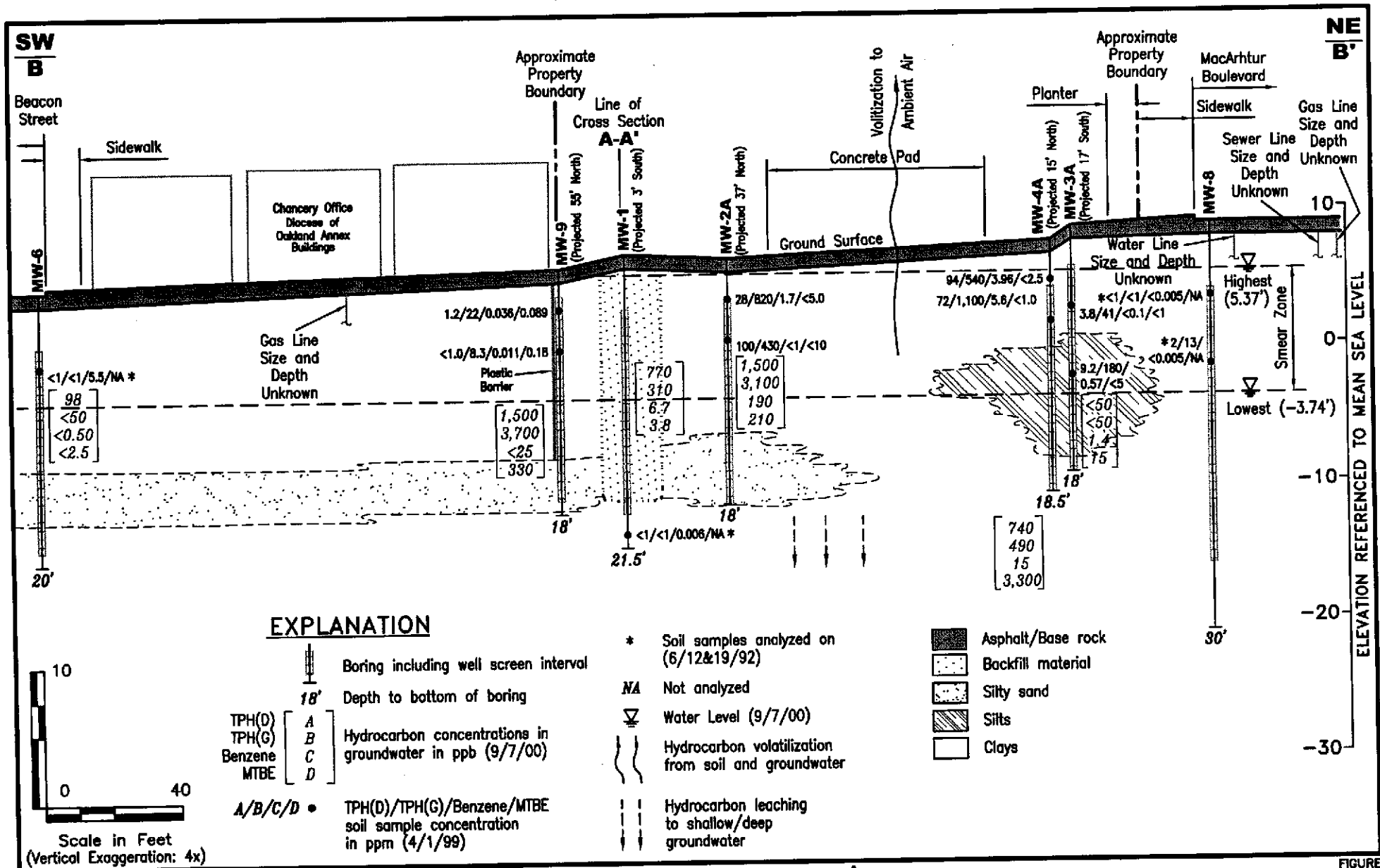
FIGURE
3

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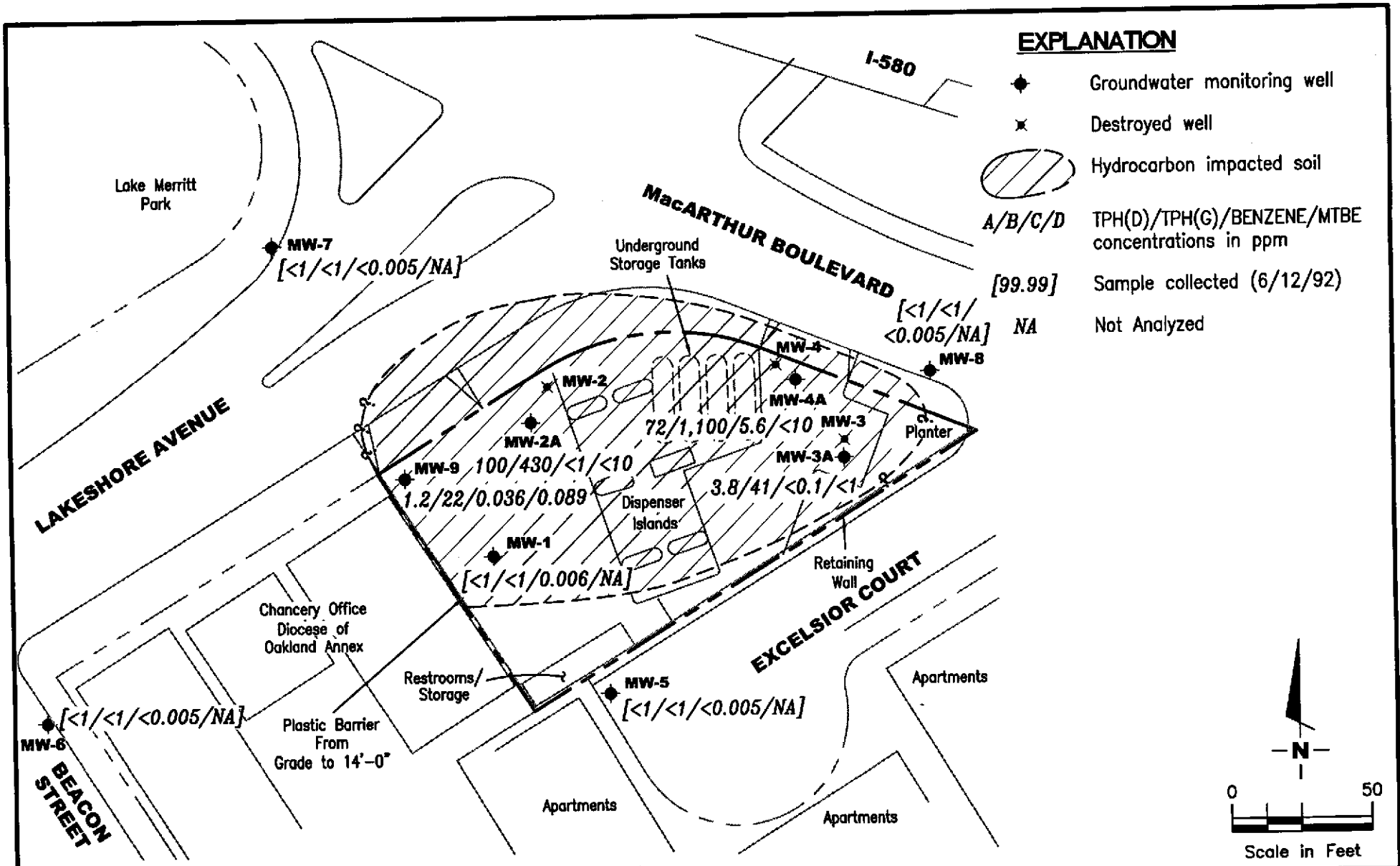
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CROSS SECTION B-B'
Chevron Service Station No. 9-0121
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Oakland, California

FIGURE
4



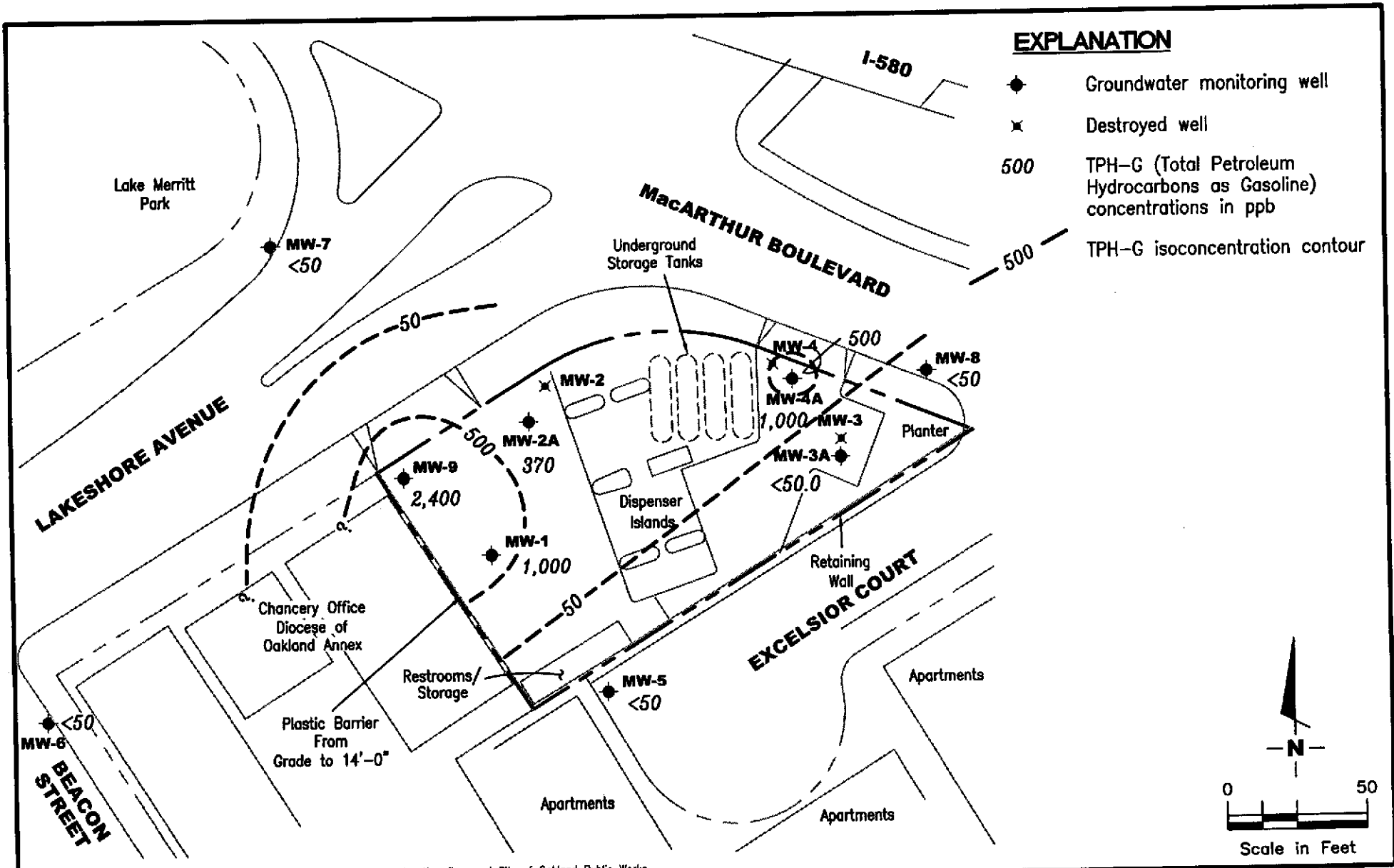
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HYDROCARBON CONCENTRATIONS IN SOIL IN SMEAR ZONE
 Chevron Service Station No. 9-0121
 3026 Lakeshore Avenue
 Oakland, California

FIGURE
5

| | | | |
|---------------------------------|-------------|---------------------------|--------------|
| PROJECT NUMBER DG90121C.4C01 | REVIEWED BY | DATE April 1 & 2, 1999 | REVISED DATE |
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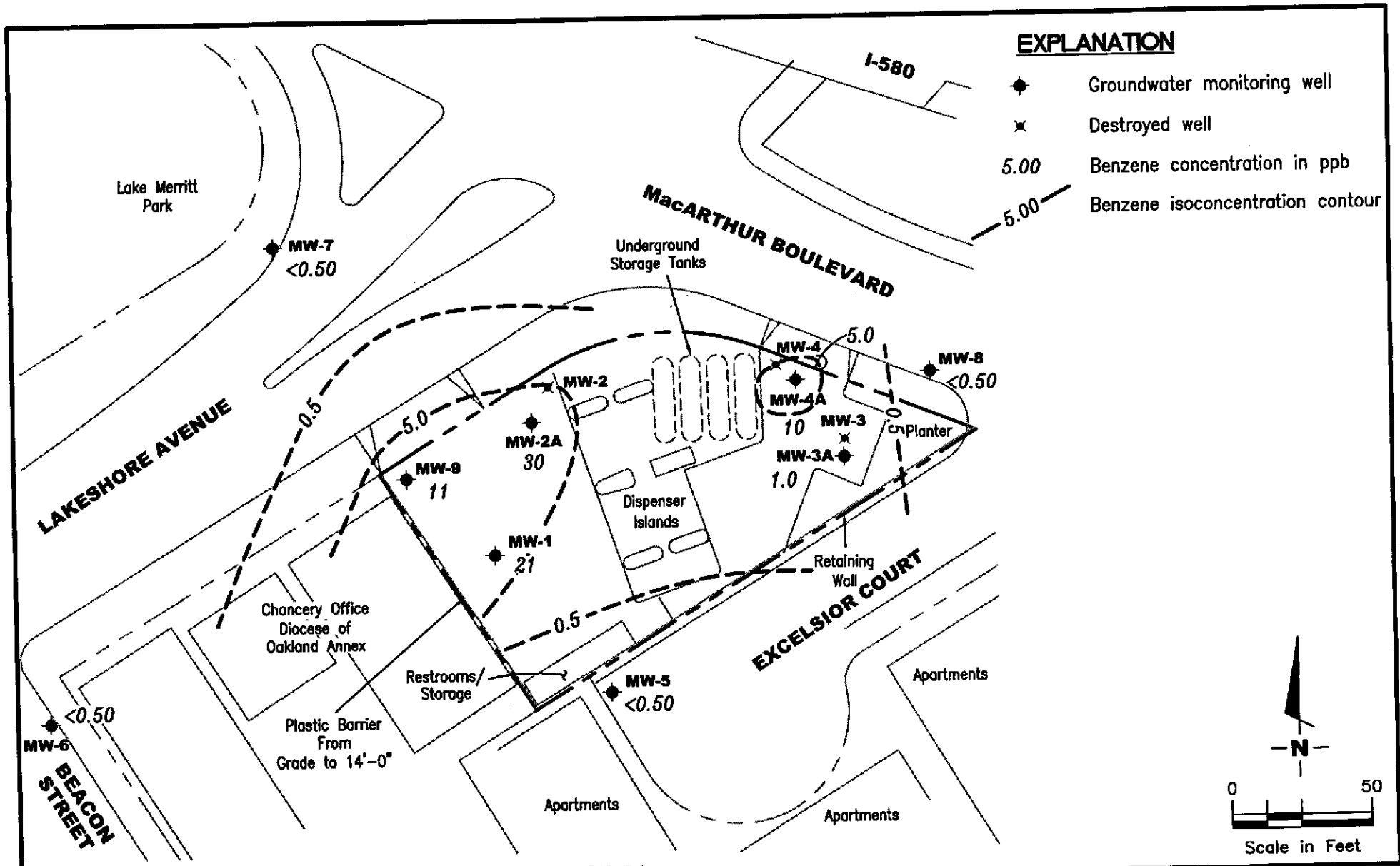
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TPH-G CONCENTRATIONS IN GROUNDWATER ON 3/1/01
 Chevron Service Station No. 9-0121
 3026 Lakeshore Avenue
 Oakland, California

FIGURE
6

| | | | |
|---------------------------------|-------------|-----------------------|--------------|
| PROJECT NUMBER DG90121C.4C01 | REVIEWED BY | DATE March 1, 2001 | REVISED DATE |
|---------------------------------|-------------|-----------------------|--------------|



EXPLANATION

- ◆ Groundwater monitoring well
- ✕ Destroyed well
- 5.00 Benzene concentration in ppb
- 5.00 Benzene isoconcentration contour

Source: Figure modified from drawings provided by RRM engineering contracting firm and City of Oakland Public Works.

BENZENE CONCENTRATIONS IN GROUNDWATER ON 3/1/01

Chevron Service Station No. 9-0121
 3026 Lakeshore Avenue
 Oakland, California

FIGURE

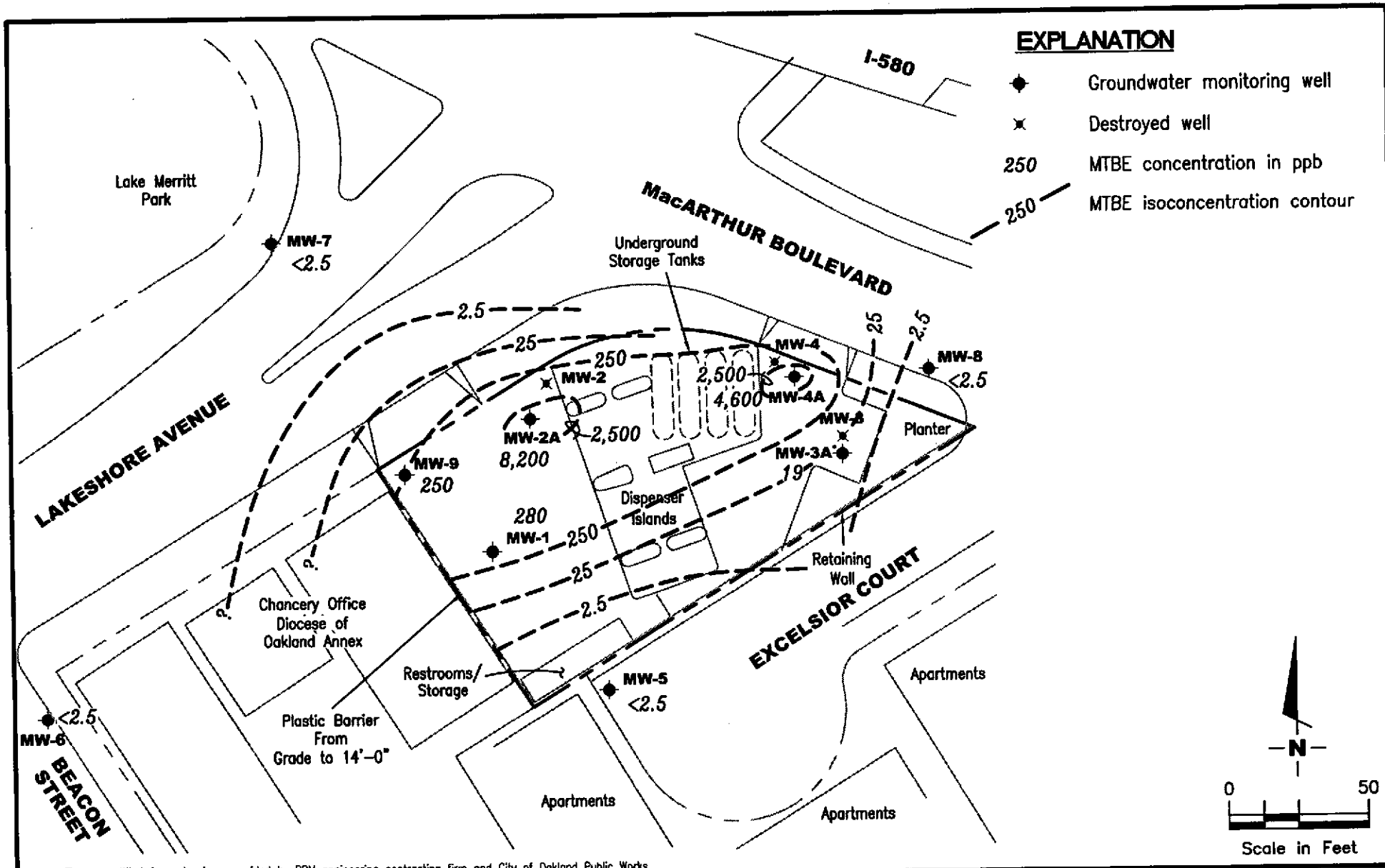
7

GETTLER - RYAN INC.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

PROJECT NUMBER DG90121C.4C01
 REVIEWED BY

DATE March 1, 2001

REVISED DATE



Source: Figure modified from drawings provided by RRM engineering contracting firm and City of Oakland Public Works.

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MTBE CONCENTRATIONS IN GROUNDWATER ON 3/1/01
 Chevron Service Station No. 9-0121
 3026 Lakeshore Avenue
 Oakland, California

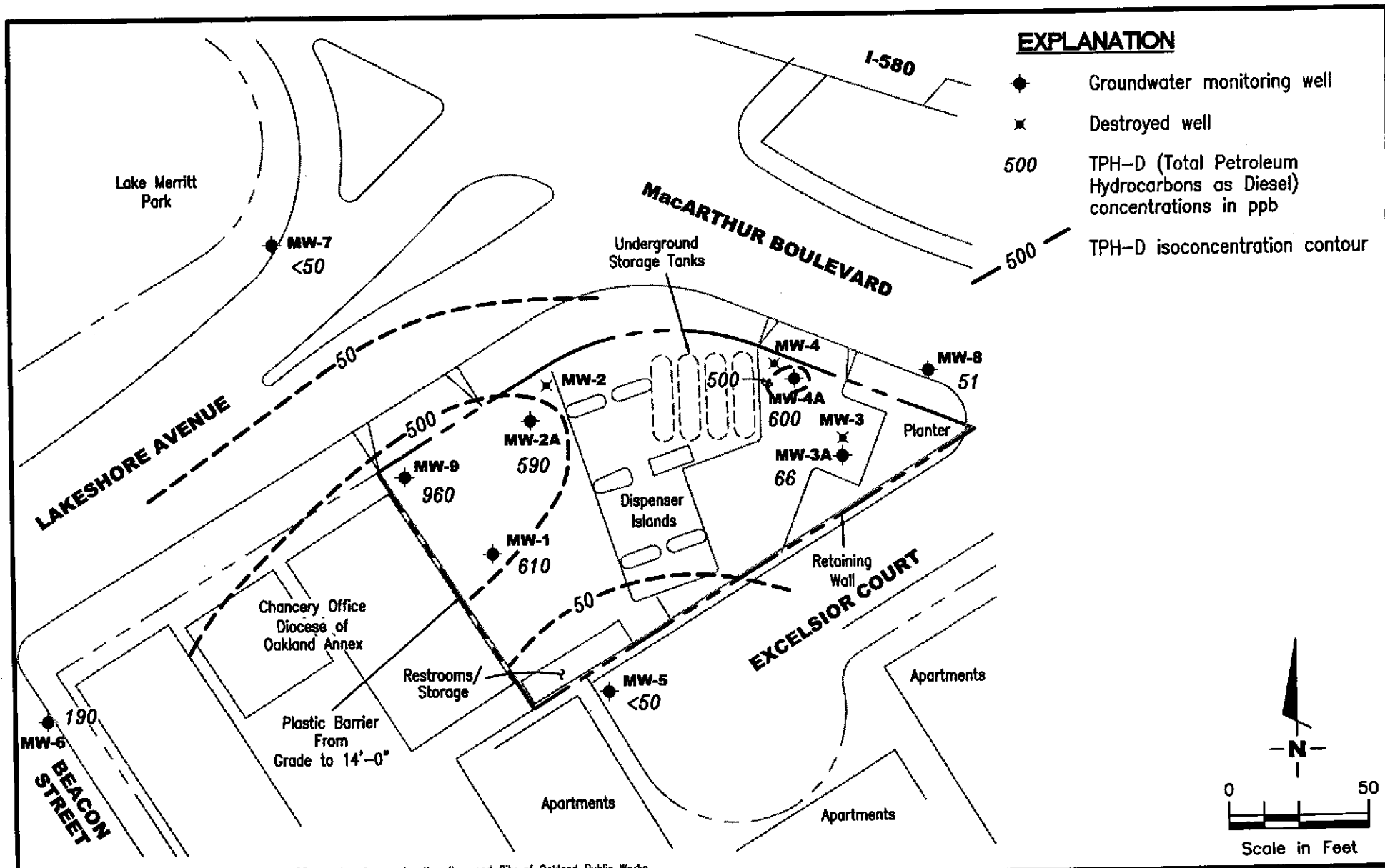
FIGURE
8

PROJECT NUMBER
 DG90121C.4C01

REVIEWED BY

DATE
 March 1, 2001

REVISED DATE



Source: Figure modified from drawings provided by RRM engineering contracting firm and City of Oakland Public Works.

GETTLER - RYAN INC.
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TPH-D CONCENTRATIONS IN GROUNDWATER ON 3/1/01
 Chevron Service Station No. 9-0121
 3026 Lakeshore Avenue
 Oakland, California

FIGURE
9

PROJECT NUMBER
 DG90121C.4C01

REVIEWED BY

DATE
 March 1, 2001

REVISED DATE

**TABLE A
SAMPLING SUMMARY**

Chevron Service Station No. 9-0121
3026 Lakeshore Avenue, Oakland, California
Results in mg/Kg - parts per million (ppm), unless otherwise noted

PIPING TRENCH AND DISPENSER SAMPLING RESULTS

| SAMPLE ID | DEPTH (ft.) | DATE | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | MTBE | Lead |
|-----------|-------------|----------|--------------|---------|---------|---------------|---------|------|------|
| P1-3' | 3 | 3-Sep-96 | ND | ND | ND | ND | ND | ND | 18 |
| P2-2' | 2 | 3-Sep-96 | ND | ND | ND | ND | ND | ND | 12 |
| P3-2.5' | 2.5 | 3-Sep-96 | ND | 0.0056 | ND | ND | 0.005 | 0.63 | 25 |
| P4-2.5' | 2.5 | 3-Sep-96 | 710 | ND | 19 | 7.8 | 78 | 15 | 28 |
| P5-3' | 3 | 3-Sep-96 | 110 | ND | ND | ND | 0.46 | ND | 14 |
| P6-3' | 3 | 3-Sep-96 | 1.3 | 0.021 | 0.15 | 0.033 | 0.18 | 2.5 | 6.6 |
| P7-3' | 3 | 3-Sep-96 | ND | ND | 0.0071 | 0.0063 | 0.024 | 0.49 | 8.0 |
| P8-2.5' | 2.5 | 3-Sep-96 | 4,100 | 33 | 19 | 51 | 30 | 31 | 20 |
| P9-2' | 2 | 3-Sep-96 | 1,400 | ND | 22 | 5.4 | 5.0 | 9.7 | 13 |
| P10-2.5' | 2.5 | 3-Sep-96 | 410 | 8.3 | ND | 4.8 | 2.4 | ND | 52 |
| P11-3' | 3 | 3-Sep-96 | 1,600 | 25 | ND | 25 | 26 | ND | 15 |
| P12-2.5' | 2.5 | 3-Sep-96 | 2,200 | 28 | ND | 23 | 12 | ND | 20 |
| P13-3' | 3 | 3-Sep-96 | 290 | 6.1 | 4.0 | 2.1 | 1.3 | ND | 36 |
| P14-2.5' | 2.5 | 3-Sep-96 | 2,500 | 40 | 20 | 27 | 76 | ND | 19 |
| P15-2.5' | 2.5 | 3-Sep-96 | 1,000 | 23 | ND | 13 | 3.0 | ND | 44 |

STOCKPILE SAMPLING RESULTS

| SAMPLE ID | DATE | TPH-Gasoline | Benzene | Toluene | Ethyl-Benzene | Xylenes | Lead | STLC Lead |
|------------|----------|--------------|---------|---------|---------------|---------|------|-----------|
| PSP-1(A-D) | 4-Sep-96 | 1,000 | 3.3 | 3.0 | 8.4 | 5 | 55 | 1.3 |

NOTES:

TPH-Gasoline = Total Petroleum Hydrocarbons calculated as gasoline.

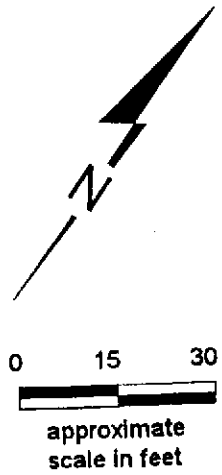
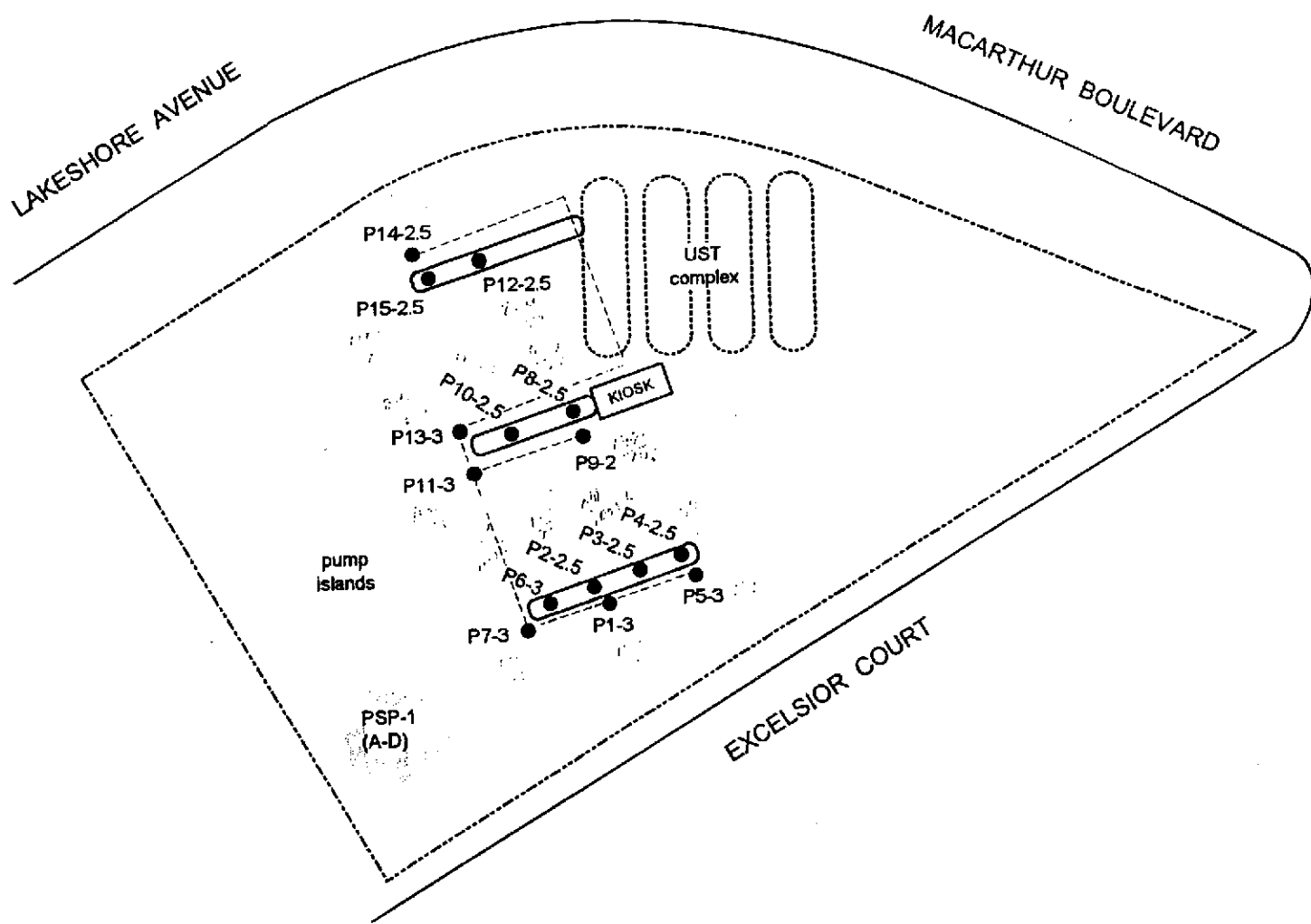
MTBE = Methyl t-Butyl Ether

ND = Not detected at or above the laboratory detection limits.

ppm = Parts per Million, results reported in mg/Kg by the laboratory.

EXPLANATION

- UST Underground Storage Tank
- Product Line
- P1-25 Sample location and ID
- Soil stockpile location



SITE PLAN AND SAMPLE LOCATION MAP

FIGURE 1

Chevron Service Station No. 9-0121
 3026 Lakeshore Avenue
 Oakland, California



PROJECT NO.
9-0121

DATE:
8/96

DRAWN BY:
WTJ

BASE MAP
Robert H. Lee Associates - Site Plan 8/96

Table 3. Soil Analytical Results - Chevron Service Station #9-0121, 3026 Lakeshore Avenue, Oakland, California.

| Sample ID | Depth (ft) | Date | TPHd | TPHg | Benzene | Toluene | Ethylbenzene | Xylenes | MtBE | Fraction Organic Carbon % | Bulk Density | | | Porosity % | Moisture Content % |
|-----------|------------|----------|------------------|--------------------|---------|---------|--------------|---------|-------|---------------------------|--------------|---------------|--------------|------------|--------------------|
| | | | | | | | | | | | Dry gm/cc | Natural gm/cc | Matrix gm/cc | | |
| MW2A-3 | 3 | 04/01/99 | 28 ¹ | 820 | 1.7 | 2.8 | 13 | 29 | <5.0 | — | — | — | — | — | — |
| MW2A-6 | 6 | 04/01/99 | 100 ¹ | 430 | <1 | 1.7 | 5.0 | 2.6 | <10 | — | 1.47 | 1.92 | 2.66 | 44.9 | — |
| MW2A-17 | 17 | 04/01/99 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| MW3A-5.5 | 5.5 | 04/01/99 | — | — | — | — | — | — | — | 0.069 | 1.98 | 2.25 | 2.72 | 27.2 | 15 |
| MW3A-6 | 6 | 04/01/99 | 3.8 ² | 41 | <0.1 | <0.1 | <0.1 | 0.28 | <1 | — | — | — | — | — | — |
| MW3A-11 | 11 | 04/01/99 | 9.2 ³ | 180 ⁴ | 0.57 | 0.52 | <0.50 | 1.8 | <5 | — | — | — | — | — | — |
| MW3A-15 | 15 | 04/01/99 | — | — | — | — | — | — | — | 0.078 | 1.60 | 2.00 | 2.69 | 40.5 | — |
| MW4A-3 | 3 | 04/01/99 | 94 ³ | 540 ⁵ | 0.96 | 1.6 | 4.6 | 1.3 | <2.5 | — | — | — | — | — | — |
| MW4A-6 | 6 | 04/02/99 | 72 ³ | 1,100 ⁶ | 5.6 | 13 | 2.4 | 18 | <10 | — | — | — | — | — | — |
| MW9-3 | 3 | 04/01/99 | 1.2 ⁷ | 22 ⁵ | 0.036 | 0.048 | 0.028 | 0.091 | 0.089 | — | — | — | — | — | — |
| MW9-6 | 6 | 04/02/99 | <1.0 | 8.3 ⁶ | 0.011 | 0.033 | 0.010 | 0.078 | 0.18 | — | — | — | — | — | — |
| SP-(A-D) | — | 04/02/99 | <1.0 | 45 | 0.15 | 0.21 | 0.45 | 0.79 | — | — | — | — | — | — | — |

EXPLANATION:

- TPHd = Total Petroleum Hydrocarbons as diesel
- TPHg = Total Petroleum Hydrocarbons as gasoline
- MtBE = Methyl t-Butyl Ether
- ft = Feet
- ppm = Parts per million
- gm/cc = gram per cubic centimeter
- = Not analyzed/not applicable

- ¹ = Laboratory report indicates unidentified hydrocarbons > C9
- ² = Laboratory report indicates unidentified hydrocarbons < C14
- ³ = Laboratory report indicates unidentified hydrocarbons C9-C24
- ⁴ = Laboratory report indicates gasoline and unidentified hydrocarbons < C8
- ⁵ = Laboratory report indicates gasoline and unidentified hydrocarbons C6-C12
- ⁶ = Laboratory report indicates gasoline and unidentified hydrocarbons < C7
- ⁷ = Laboratory report indicates unidentified hydrocarbons > C14

ANALYTICAL METHODS:

- TPHg, benzene, toluene, ethylbenzene, xylenes, MtBE = EPA Methods 5030/8015Mod/8020
- TPHd = EPA Method 3550/8015Mod
- Porosity, densities = Method API RP-40

ANALYTICAL LABORATORY:

Sequoia Analytical (ELAP #1271)

TABLE 2
ANALYTICAL RESULTS FOR SOIL SAMPLES
COLLECTED ON JUNE 12 AND 19, 1992
(Concentration in parts per million)

| BORING | SAMPLE ID | SAMPLE DATE | SAMPLE DEPTH (ft) | BENZENE | TOLUENE | ETHYL-BENZENE | XYLENES | TPH-AS-GASOLINE | TPH-AS-DIESEL |
|--------|--------------|-------------|-------------------|------------------|-----------------|-----------------|-----------------|-----------------|---------------|
| MW-1 | MW1A | 6/19/92 | 20.5 | 0.006 | 0.019 | <0.005 | 0.015 | <1 | <1 |
| MW-5 | MW5D | 6/12/92 | 20.5 | <0.005 | <0.005 | <0.005 | <0.005 | <1 | <1 |
| MW-6 | MW6A | 6/12/92 | 5.5 | <0.005 | <0.005 | <0.005 | <0.005 | <1 | <1 |
| MW-7 | MW7A | 6/12/92 | 5.5 | <0.005 | <0.005 | <0.005 | <0.005 | <1 | <1 |
| MW-8 | MW8A MW8B | 6/19/92 | 5.5 10.5 | <0.005 <0.005 | <0.005 0.006 | <0.005 0.012 | <0.005 0.078 | <1 13 | <1 2* |

TPH = Total petroleum hydrocarbons
 * = The analytical laboratory reported that the pattern observed in the chromatogram was not typical of diesel.

TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
 (Results in parts per million)

| SAMPLE ID | SAMPLE DATE | DEPTH (ft) | BENZENE | TOLUENE | ETHYL-BENZENE | XYLENES | TPH-AS-GASOLINE | TPH-AS-DIESEL |
|-----------|-------------|------------|---------|---------|---------------|---------|-----------------|---------------|
| MW-2A | 08/07/91 | 2 | 1.5 | 1.2 | 2.3 | 4.6 | 660 | 4 |
| MW-2B | 08/07/91 | 7 | 2.8 | 1.3 | 11.0 | 4.3 | 540 | 17 |
| MW-3A | 08/13/91 | 2 | 0.021 | <0.005 | <0.005 | <0.005 | <1.0 | 2 |
| MW-3B | 08/13/91 | 9 | 3.0 | 3.7 | 5.0 | 8.0 | 660 | 34 |
| MW-4A | 08/13/91 | 3 | <0.6 | 4.5 | 3.6 | 7.4 | 560 | 13 |
| MW-4B | 08/13/91 | 8 | 0.170 | 0.290 | 0.110 | 0.220 | 31 | 2 |

TABLE 3
WATER SAMPLE ANALYTICAL RESULTS
 SAMPLES COLLECTED ON AUGUST 20, 1991
 (Results in parts per billion)

| WELL ID | BENZENE | TOLUENE | ETHYL-BENZENE | XYLENES | TPH-AS-GASOLINE | TPH-AS-DIESEL * |
|---------|---------|---------|---------------|---------|-----------------|-----------------|
| MW-1 | 1,700 | 21 | 220 | 34 | 5,100 | 260 |
| MW-2 | 3,700 | 55 | 530 | 75 | 9,300 | 600 |
| MW-3 | 200 | 13 | 15 | 12 | 3,100 | 200 |
| MW-4 | 870 | 4 | 3 | 9 | 1,800 | 160 |

* Gasoline pattern present in sample

SOIL RESUMES

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH | SPH | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|------------------|--------------|--------------|--------------|--------------------|----------------------|--------------------|----------------|------------|------------|------------|------------|---------------|--------------|
| | | | | Thickness (ft.) | Removed (gallons) | | | | | | | | |
| MW-1 | | | | | | | | | | | | | |
| 08/20/91 | 6.82 | 1.62 | 5.20 | -- | -- | 260 | 5,100 | 1,700 | 21 | 220 | 34 | -- | -- |
| 09/30/91 | 6.82 | 1.15 | 5.67 | Sheen | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/28/91 | 6.82 | 1.50 | 5.30 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01/08/92 | 6.82 | 1.67 | 5.15 | Sheen | -- | 4,400 | 5,400 | 770 | 13 | 95 | 31 | -- | -- |
| 01/13/92 | 6.82 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/23/92 | 6.89 | 1.48 | 5.41 | -- | -- | 2,000 | 7,700 | 1,500 | 40 | 230 | 100 | -- | -- |
| 08/24/92 | 6.89 | 1.12 | 5.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/21/92 | 6.89 | 1.00 | 5.89 | -- | -- | <50 | 3,500 | 1,700 | 28 | 190 | 78 | -- | -- |
| 10/26/92 | 6.89 | 0.95 | 5.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/23/92 | 6.89 | 2.18 | 4.71 | -- | -- | 5,500 | 60,000 | 7,100 | 240 | 2,000 | 1,300 | -- | -- |
| 01/08/93 | 6.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/25/93 | 6.89 | 2.17 | 4.72 | -- | -- | <10 | 530 | 1,100 | 41 | 67 | 79 | -- | -- |
| 06/11/93 | 6.89 | 5.37 | 5.07 | -- | -- | -- | 7,000 | 1,900 | 33 | 120 | 69 | 9,600 | 840 |
| 09/29/93 | 6.89 | 1.13 | 5.76 | -- | -- | <10 | 6,600 | 1,600 | 28 | 43 | 74 | -- | -- |
| 12/20/93 | 6.89 | 1.74 | 5.15 | -- | -- | <10 | 6,300 | 1,900 | 36 | 82 | 65 | -- | -- |
| 03/07/94 | 6.89 | 2.21 | 4.68 | -- | -- | <10 | 7,700 | 1,100 | 55 | 66 | 38 | 12,000 | -- |
| 06/17/94 | 6.89 | 1.83 | 5.06 | -- | -- | 2,200 | 4,300 | 710 | 12 | 90 | 38 | -- | -- |
| 09/12/94 | 6.89 | 1.24 | 5.65 | -- | -- | 2,500 | 6,400 | 1,500 | <25 | 180 | <25 | 12,000 | -- |
| 11/30/94 | 6.89 | 2.32 | 4.57 | -- | -- | 2,300 ¹ | 4,900 | 690 | 26 | 97 | 60 | 3,900 | -- |
| 03/24/95 | 6.89 | 3.91 | 2.98 | -- | -- | 1,400 ² | 1,800 | 160 | 7.3 | 11 | 14 | 1,300 | -- |
| 06/27/95 | 6.89 | 1.87 | 5.02 | -- | -- | 2,300 ² | 4,600 | 1,300 | 11 | 97 | 13 | 5,100 | -- |
| 09/28/95 | 6.89 | 1.59 | 5.30 | -- | -- | 3,900 ² | 6,600 | 1,500 | <20 | <20 | <20 | 5,800 | -- |
| 12/19/95 | 6.89 | 2.21 | 4.68 | -- | -- | 2,600 ² | 3,800 | 930 | <10 | 100 | <10 | 6,300 | -- |
| 02/28/96 | 6.89 | 3.27 | 3.62 | -- | -- | 1,800 ² | 3,600 | 280 | <5.0 | 18 | 5.5 | 2,200 | -- |
| 06/25/96 | 6.89 | 1.87 | 5.02 | -- | -- | 3,000 | 4,700 | 1,600 | 36 | 150 | 31 | 3,000 | -- |
| 12/17/96 | 6.89 | 2.23 | 4.66 | -- | -- | 2,700 ³ | 7,800 | 1,000 | 28 | 340 | 63 | 1,200 | -- |
| 03/31/97 | 6.89 | 2.01 | 4.88 | -- | -- | 2,200 ² | 5,300 | 590 | 55 | 210 | 53 | 950 | -- |
| 06/30/97 | 6.89 | 1.32 | 5.57 | -- | -- | 2,200 ² | 4,400 | 350 | <10 | <10 | 11 | 580 | -- |
| 09/12/97 | 6.89 | 1.56 | 5.33 | -- | -- | 2,300 ² | 3,400 | 220 | 9.5 | 15 | 11 | 460 | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH | SPH | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|-----------------------|--------------|--------------|--------------|--------------------|----------------------|--------------------|---------------------|------------|------------|------------|------------|---------------|--------------|
| | | | | Thickness (ft.) | Removed (gallons) | | | | | | | | |
| MW-1 (cont) | | | | | | | | | | | | | |
| 12/05/97 | 6.89 | 2.44 | 4.45 | -- | -- | 1,900 ² | 4,700 | 870 | 21 | 120 | 18 | 750 | -- |
| 02/16/98 | 6.89 | 3.52 | 3.37 | -- | -- | 1,600 ² | 4,400 | 120 | 12 | 11 | 7.7 | 270 | -- |
| 06/17/98 | 6.89 | 2.24 | 4.65 | -- | -- | 1,300 ² | 7,800 | <25 | 50 | 34 | 650 | 650 | -- |
| 08/31/98 | 6.89 | 1.70 | 5.19 | -- | -- | 2,400 ² | 3,700 | 620 | 17 | 120 | 31 | 380 | -- |
| 12/28/98 | 6.89 | 1.94 | 4.95 | -- | -- | 1,500 ² | 3,800 | 250 | 14 | 28 | 15 | 330 | -- |
| 03/04/99 | 6.89 | 3.24 | 3.65 | -- | -- | 1,070 ² | 1,560 | 17.9 | <0.5 | 4.17 | 1.05 | 70.4 | -- |
| 06/14/99 | 6.89 | 1.89 | 5.00 | -- | -- | 2,500 ² | <10,000 | 820 | 240 | 320 | 640 | <500 | -- |
| 09/17/99 | 6.89 | 0.30 | 6.59 | -- | -- | 2,110 ² | 3,300 | 141 | 12.3 | <10 | <10 | 238 | -- |
| 12/20/99 | 6.89 | 1.92 | 4.97 | -- | -- | 1,840 ² | 2,990 | 218 | 16.3 | 20 | <10 | 232 | -- |
| 03/20/00 | 6.89 | 3.11 | 3.78 | -- | -- | 938 ² | 1,340 | 20 | 3.07 | 1.87 | 1.87 | 29.1 | -- |
| 06/24/00 ⁵ | 6.89 | 2.45 | 4.44 | 0.00 | -- | 1,680 ⁹ | 1,500 ⁷ | 12 | 5.3 | <2.5 | 7.9 | 190 | -- |
| 09/07/00 ⁵ | 6.89 | 1.74 | 5.15 | 0.00 | -- | 1,500 ⁹ | 3,100 ⁷ | 190 | 13 | 14 | <10 | 210 | -- |
| 12/05/00 | 6.89 | 2.16 | 4.73 | 0.00 | -- | 970 ¹³ | 2,140 ¹⁴ | 248 | <5.00 | 20.5 | <5.00 | <25.0 | -- |
| 03/01/01 | 6.89 | 3.33 | 3.56 | 0.00 | -- | 610 ⁹ | 1,000 ⁷ | 21 | <10 | <10 | <10 | 280 | -- |
| MW-2 | | | | | | | | | | | | | |
| 08/20/91 | 6.27 | 1.92 | 4.35 | -- | -- | 600 | 9,300 | 3,700 | 55 | 530 | 75 | -- | -- |
| 09/30/91 | 6.27 | 1.28 | 4.99 | -- | -- | -- | 3,500 | 2,600 | 47 | 440 | 68 | -- | -- |
| 10/28/91 | 6.27 | 1.36 | 4.91 | -- | -- | -- | 4,600 | 1,800 | 29 | 290 | 53 | -- | -- |
| 01/08/92 | 6.27 | 1.63 | 4.64 | Sheen | -- | -- | 14,000 | 4,300 | 70 | <25 | 130 | -- | -- |
| 01/13/92 | 6.27 | -- | -- | -- | -- | 38,000 | -- | -- | -- | -- | -- | -- | -- |
| 06/23/92 | 6.27 | 1.63 | 4.64 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/24/92 | 6.27 | 1.34 | 4.94 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/21/92 | 6.27 | 1.20 | 5.08 | 0.01 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/26/92 | 6.27 | 0.34 | 5.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/23/92 | 6.27 | -- | -- | -- | -- | 160,000 | 21,000 | 5,400 | 59 | 1,300 | 160 | -- | -- |
| 01/08/93 | 6.27 | 2.57 | 3.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/25/93 | 6.27 | 2.89 | 3.38 | Sheen | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/11/93 | 6.27 | 2.09 | 4.18 | -- | -- | -- | 5,900 | 1,100 | 23 | 240 | 51 | -- | 2,300 |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH | SPH | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|--------------------|--------------|--------------|--------------|--------------------|----------------------|--------------------|----------------|------------|------------|------------|------------|---------------|--------------|
| | | | | Thickness (ft.) | Removed (gallons) | | | | | | | | |
| MW-2 (cont) | | | | | | | | | | | | | |
| 09/29/93 | 6.27 | 0.07 | 6.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/20/93 | 6.27 | 1.94 | 4.35 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/07/94 | 6.27 | 2.60 | 3.67 | -- | -- | <10 | 26,000 | 5,700 | 170 | 1,000 | 150 | -- | -- |
| 06/17/94 | 6.27 | 2.25 | 4.02 | Sheen | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/12/94 | 6.27 | 1.45 | 4.83 | 0.01 | -- | INACCESSIBLE | | -- | -- | -- | -- | -- | -- |
| 11/30/94 | 6.27 | 2.27 | 4.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/24/95 | 6.27 | 2.73 | 4.01 | 0.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/27/95 | 6.27 | 1.71 | 4.96 | 0.50 | 0.013 | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/28/95 | 6.27 | 2.62 | 4.25 | 0.75 | 0.013 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/19/95 | 6.27 | 1.99 | 4.76 | 0.60 | 0.010 | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/28/96 | 6.27 | 1.99 | 4.58 | 0.38 | 0.008 | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/25/96 | 6.27 | 2.36 | 4.29 | 0.47 | 0.030 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/17/96 | 6.27 | 2.22 | 4.16 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/31/97 | 6.27 | 2.34 | 4.07 | 0.18 | 0.030 | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/30/97 | 6.27 | 2.06 | 4.32 | 0.14 | 0.030 | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/12/97 | 6.27 | 2.00 | 4.38 | 0.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/05/97 | 6.27 | 2.51 | 3.78 | 0.02 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/16/98 | 6.27 | 3.08 | 3.29 | 0.12 | 0.007 | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/17/98 | 6.27 | 2.35 | 4.00 | 0.10 | 0.010 | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/31/98 | 6.27 | 0.65 | 5.71 | 0.11 | 0.008 | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/28/98 | 6.27 | 1.75 | 4.60 | 0.10 | 0.005 | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/04/99 | 6.27 | 2.58 | 3.73 | 0.05 | 0.200 | -- | -- | -- | -- | -- | -- | -- | -- |
| DESTROYED | | | | | | | | | | | | | |
| MW-2A | | | | | | | | | | | | | |
| 04/19/99 | 6.53 | 1.67 | 4.86 | -- | -- | 820 ² | <2000 | <20 | <20 | <20 | <20 | 9200 | -- |
| 06/14/99 | 6.53 | 1.23 | 5.30 | -- | -- | 2,000 ² | <5000 | 89 | <50 | 66 | <50 | 10,000 | -- |
| 09/17/99 | 6.53 | 0.69 | 5.84 | -- | -- | 1,050 ² | 903 | 42 | 1.63 | 22.8 | 7.74 | 11,400 | -- |
| 12/20/99 | 6.53 | -0.07 | 6.60 | -- | -- | 2,820 ² | 2,280 | 115 | <10 | 87.2 | 27.2 | 14,000 | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (mst) | DTW (ft.) | SPH | SPH | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|---------------------|--------------|--------------|--------------|--------------------|----------------------|--------------------|-------------------|------------|------------|------------|------------|---------------------|--------------|
| | | | | Thickness (ft.) | Removed (gallons) | | | | | | | | |
| MW-2A (cont) | | | | | | | | | | | | | |
| 03/20/00 | 6.53 | 1.74 | 4.79 | -- | -- | 1,220 ² | 1,040 | 54.3 | <5.0 | 33.8 | 12.1 | 10,900 ² | -- |
| 06/24/00 | 6.53 | 1.28 | 5.25 | 0.00 | -- | 1,300 ⁹ | 690 ⁷ | 50 | 2.5 | 18 | 9.5 | 15,000 ⁸ | -- |
| 09/07/00 | 6.53 | 1.09 | 5.44 | 0.00 | -- | 770 ⁹ | 310 ⁷ | 6.7 | 1.4 | 1.6 | 3.8 | 16,000 | -- |
| 12/05/00 | 6.53 | 1.16 | 5.37 | 0.00 | -- | 810 ¹³ | 414 ¹⁴ | 32.4 | <0.500 | 7.49 | 5.96 | 8,910 ⁸ | -- |
| 03/01/01 | 6.53 | 2.03 | 4.50 | 0.00 | -- | 590 ⁹ | 370 ⁷ | 30 | 4.0 | 12 | 9.2 | 8,200 | -- |
| MW-3 | | | | | | | | | | | | | |
| 08/20/91 | 8.71 | 0.26 | 8.45 | -- | -- | 200 | 3,100 | 200 | 13 | 15 | 12 | -- | -- |
| 09/30/91 | 8.71 | -0.03 | 8.74 | -- | -- | -- | 1,000 | 150 | 8.3 | 13 | 6.7 | -- | -- |
| 10/28/91 | 8.71 | -0.05 | 8.76 | -- | -- | -- | 1,200 | 120 | 6.7 | 11 | 7.5 | -- | -- |
| 01/08/92 | 8.71 | -0.06 | 8.77 | -- | -- | -- | 410 | 120 | 0.9 | 4.1 | 3.4 | -- | -- |
| 01/13/92 | 8.71 | -- | -- | -- | -- | 220 | -- | -- | -- | -- | -- | -- | -- |
| 06/23/92 | 8.71 | 0.03 | 8.68 | -- | -- | <50 | 630 | 43 | 0.8 | 8.2 | 3.4 | -- | -- |
| 08/24/92 | 8.71 | -0.14 | 8.85 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/21/92 | 8.71 | -0.23 | 8.94 | -- | -- | <50 | 1,800 | 730 | 1.4 | 66 | 39 | -- | -- |
| 10/26/92 | 8.71 | -0.36 | 9.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/23/92 | 8.71 | -- | -- | -- | -- | 850 | 840 | 270 | 3.4 | 15 | 4.2 | -- | -- |
| 01/08/93 | 8.71 | 1.02 | 7.69 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/25/93 | 8.71 | 0.97 | 7.74 | -- | -- | <10 | 760 | 270 | 4.0 | 10 | 5.0 | -- | -- |
| 06/11/93 | 8.71 | 0.19 | 8.52 | -- | -- | -- | 200 | 32 | 1.0 | 5.0 | 2.0 | -- | 5,600 |
| 09/29/93 | 8.71 | 2.66 | 6.05 | -- | -- | -- | 9,300 | 2,800 | 60 | 270 | 62 | -- | -- |
| 12/20/93 | 8.71 | -0.12 | 8.83 | -- | -- | <10 | 460 | 250 | 4.0 | 8.0 | 4.0 | -- | -- |
| 03/07/94 | 8.71 | 0.64 | 8.07 | -- | -- | <10 | 2,400 | 260 | 13 | 35 | 18 | -- | -- |
| 06/17/94 | 8.71 | 0.19 | 8.52 | -- | -- | <50 | 1,000 | 200 | 4.0 | 6.6 | 6.7 | -- | -- |
| 09/12/94 | 8.71 | -0.21 | 8.92 | -- | -- | <50 | 360 | 130 | 3.4 | 4.8 | 3.3 | 130 | -- |
| 11/30/94 | 8.71 | 0.58 | 8.13 | -- | -- | INACCESSIBLE | | -- | -- | -- | -- | -- | -- |
| 03/24/95 | 8.71 | 1.93 | 6.78 | -- | -- | 1,200 ² | 4,100 | 920 | <10 | 23 | <10 | 70 | -- |
| 06/27/95 | 8.71 | 0.49 | 8.22 | -- | -- | 1,000 ² | 3,100 | 640 | 16 | 31 | <10 | <50 | -- |
| 09/28/95 | 8.71 | -0.14 | 8.85 | -- | -- | 460 ² | 490 | 78 | 3.4 | 4.4 | 2.4 | 38 | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH | SPH | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|--------------------|--------------|--------------|--------------|--------------------|----------------------|--------------------|----------------|------------|------------|------------|------------|---------------|--------------|
| | | | | Thickness (ft.) | Removed (gallons) | | | | | | | | |
| MW-3 (cont) | | | | | | | | | | | | | |
| 12/19/95 | 8.71 | 0.69 | 8.02 | -- | -- | 650 ² | 2,600 | 580 | <10 | 25 | <10 | <50 | -- |
| 02/28/96 | 8.71 | 1.16 | 7.55 | -- | -- | 780 ² | 1,500 | 510 | <5.0 | 9.9 | <5.0 | <25 | -- |
| 06/25/96 | 8.71 | 0.34 | 8.37 | -- | -- | 1,200 ² | 1,300 | 390 | 7.8 | 14 | 6.5 | 31 | -- |
| 12/17/96 | 8.71 | 0.41 | 8.30 | -- | -- | 1,100 ² | 760 | 85 | <1.2 | 5.9 | 5.1 | <6.2 | -- |
| 03/31/97 | 8.71 | 0.52 | 8.19 | -- | -- | 1,300 ² | 2,000 | 380 | 12 | 24 | 12 | <25 | -- |
| 06/30/97 | 8.71 | 0.00 | 8.71 | -- | -- | 620 ² | 1,900 | 340 | 9.9 | 23 | 6.1 | <25 | -- |
| 09/12/97 | 8.71 | 1.07 | 7.64 | -- | -- | 400 ² | 1,200 | 200 | 4.6 | 14 | 4.8 | 3.9 | -- |
| 12/05/97 | 8.71 | 0.46 | 8.25 | -- | -- | 190 ² | 460 | 72 | 2.7 | 5.2 | 1.7 | <5.0 | -- |
| 02/16/98 | 8.71 | 1.71 | 7.00 | -- | -- | 1,000 ² | 6,200 | 1,100 | 20 | 34 | 12 | <50 | -- |
| 06/17/98 | 8.71 | 0.71 | 8.00 | -- | -- | 1,100 ² | 3,000 | 350 | <10 | <10 | <10 | 120 | -- |
| 08/31/98 | 8.71 | 0.08 | 8.63 | -- | -- | 790 ² | 430 | 100 | 2.6 | 8.6 | 6.0 | <12 | -- |
| 12/28/98 | 8.71 | -0.02 | 8.73 | -- | -- | 180 ² | 1,400 | 220 | <10 | 12 | <10 | <50 | -- |
| 03/04/99 | 8.71 | 1.06 | 7.65 | -- | -- | 763 ² | 2,880 | 355 | 9.15 | 19 | <5.0 | <20 | -- |
| DESTROYED | | | | | | | | | | | | | |
| MW-3A | | | | | | | | | | | | | |
| 04/19/99 | 8.70 | 1.00 | 7.70 | -- | -- | 93 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.1 | -- |
| 06/14/99 | 8.70 | 0.50 | 8.20 | -- | -- | 160 ² | 148 | 4.55 | 0.82 | 0.53 | 1.1 | 3.7 | -- |
| 09/17/99 | 8.70 | -0.02 | 8.72 | -- | -- | 101 ² | 169 | 6.02 | 0.806 | 0.515 | 0.786 | 4.68 | -- |
| 12/20/99 | 8.70 | -0.22 | 8.92 | -- | -- | 153 ² | <50 | 1.82 | <0.5 | <0.5 | <0.5 | 11 | -- |
| 03/20/00 | 8.70 | 1.06 | 7.64 | -- | -- | 223 ² | 140 | 5.08 | 0.695 | <0.5 | <0.5 | 10.1 | -- |
| 06/24/00 | 8.70 | 0.32 | 8.38 | 0.00 | -- | 128 ⁹ | <50 | 0.74 | <0.50 | <0.50 | <0.50 | 34 | -- |
| 09/07/00 | 8.70 | -0.09 | 8.79 | 0.00 | -- | <50 | <50 | 1.4 | <0.50 | <0.50 | <0.50 | 15 | -- |
| 12/05/00 | 8.70 | 0.02 | 8.68 | 0.00 | -- | <50 | <50.0 | 1.39 | <0.500 | <0.500 | <0.500 | 12.9 | -- |
| 03/01/01 | 8.70 | 0.88 | 7.82 | 0.00 | -- | 66 ¹¹ | <50 | 1.0 | <0.50 | <0.50 | <0.50 | 19 | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH | SPH | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|------------------|--------------|--------------|--------------|--------------------|----------------------|--------------------|----------------|------------|------------|------------|------------|---------------|--------------|
| | | | | Thickness (ft.) | Removed (gallons) | | | | | | | | |
| MW-4 | | | | | | 160 | 1,800 | 870 | 4.0 | 3.0 | 9.0 | -- | -- |
| 08/20/91 | 7.37 | 1.32 | 5.05 | -- | -- | -- | 670 | 830 | 5.5 | 2.7 | 12 | -- | -- |
| 09/30/91 | 7.37 | 1.70 | 5.67 | -- | -- | -- | 2,800 | 990 | 5.8 | 4.8 | 19 | -- | -- |
| 10/28/91 | 7.37 | 1.56 | 5.81 | -- | -- | -- | 2,900 | 1,200 | 10 | 7.0 | 18 | -- | -- |
| 01/08/92 | 7.37 | 2.03 | 5.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01/13/92 | 7.37 | -- | -- | -- | -- | 1,000 | -- | -- | -- | -- | -- | -- | -- |
| 06/23/92 | 7.37 | 2.00 | 5.37 | -- | -- | <50 | 1,600 | 380 | 6.5 | 3.0 | 12 | -- | -- |
| 08/24/92 | 7.37 | 1.62 | 5.75 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/21/92 | 7.37 | 1.42 | 5.95 | -- | -- | <50 | 1,200 | 480 | 5.6 | 3.7 | 11 | -- | -- |
| 10/26/92 | 7.37 | 1.41 | 5.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/23/92 | 7.37 | -- | -- | -- | -- | 1,800 | 1,500 | 700 | 3.6 | 3.2 | 11 | -- | -- |
| 01/08/93 | 7.37 | 2.73 | 4.64 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/25/93 | 7.37 | 2.95 | 4.42 | -- | -- | <10 | 520 | 160 | 3.0 | 1.0 | 4.0 | -- | 2,600 |
| 06/11/93 | 7.37 | 2.25 | 5.12 | -- | -- | -- | 1,200 | 430 | 5.0 | 6.0 | 11 | -- | -- |
| 09/29/93 | 7.37 | 1.57 | 5.80 | -- | -- | -- | 1,300 | 210 | 8.0 | 2.0 | 14 | -- | -- |
| 12/20/93 | 7.37 | 2.27 | 5.10 | -- | -- | 3,900 | 570 | 230 | 5.0 | 4.0 | 8.0 | -- | -- |
| 03/07/94 | 7.37 | 2.36 | 5.01 | -- | -- | 2,600 | 2,200 | 290 | 18 | 2.5 | 11 | 22,000 | -- |
| 06/17/94 | 7.37 | 1.55 | 5.82 | -- | -- | 2,800 | 2,100 | 480 | 11 | 4.3 | 9.5 | -- | -- |
| 09/12/94 | 7.37 | 1.73 | 5.64 | -- | -- | 3,000 | 1,700 | 340 | 6.1 | 2.7 | 9.7 | 63,000 | -- |
| 11/30/94 | 7.37 | 1.79 | 5.58 | -- | -- | INACCESSIBLE | | -- | -- | -- | -- | -- | -- |
| 03/24/95 | 7.37 | 2.42 | 4.95 | -- | -- | 3,000 ² | 1,500 | 280 | <5.0 | <5.0 | 6.9 | 12,000 | -- |
| 06/27/95 | 7.37 | -1.42 | 8.79 | -- | -- | 3,100 ² | <10,000 | 310 | <100 | <100 | <100 | 32,000 | -- |
| 09/28/95 | 7.37 | 1.52 | 5.85 | -- | -- | 6,300 ² | 330 | 64 | 1.1 | <0.5 | <0.5 | 630 | -- |
| 12/19/95 | 7.37 | 1.87 | 5.50 | -- | -- | 3,400 ² | 3,000 | 520 | <25 | <25 | <25 | 44,000 | -- |
| 02/28/96 | 7.37 | 2.27 | 5.10 | -- | -- | 4,700 ² | <10,000 | 230 | <100 | <100 | <100 | 32,000 | -- |
| 06/25/96 | 7.37 | 1.59 | 5.78 | -- | -- | 3,100 | <10,000 | 160 | <100 | <100 | <100 | 31,000 | -- |
| 12/17/96 | 7.37 | 1.42 | 5.95 | -- | -- | 3,600 ³ | <5000 | 110 | <50 | <50 | <50 | 22,000 | -- |
| 03/31/97 | 7.37 | 1.75 | 5.62 | -- | -- | 2,700 ² | <2500 | 130 | <25 | <25 | <25 | 16,000 | -- |
| 06/30/97 | 7.37 | 1.34 | 6.03 | -- | -- | 2,700 ² | <2500 | 130 | <25 | <25 | <25 | 14,000 | -- |
| 09/12/97 | 7.37 | 1.68 | 5.69 | -- | -- | 2,100 ² | <5000 | 63 | <50 | <50 | <50 | 15,000 | -- |
| 12/05/97 | 7.37 | 2.22 | 5.15 | -- | -- | 2,600 ² | 1,300 | 120 | <5.0 | <5.0 | 8.5 | 15,000 | -- |

As of 03/01/01

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-0121
 3026 Lakeshore Avenue
 Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH | SPH | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|------------------|--------------|--------------|--------------|--------------------|----------------------|--------------------|------------------|------------|------------|------------|------------|----------------------------|--------------|
| | | | | Thickness (ft.) | Removed (gallons) | | | | | | | | |
| MW-4 (cont) | | | | | | | | | | | | | |
| 02/16/98 | 7.37 | 1.11 | 6.26 | -- | -- | 1,300 ² | 1,200 | 57 | 4.5 | <2.5 | 7.0 | 12,000 | -- |
| 06/17/98 | 7.37 | 2.41 | 4.96 | -- | -- | 530 ² | 5,300 | 390 | 290 | 28 | 150 | 17,000 | -- |
| 08/31/98 | 7.37 | 1.46 | 5.91 | -- | -- | 2,400 ² | <50 | 89 | <0.5 | <0.5 | <0.5 | 14,000/16,000 ⁴ | -- |
| 12/28/98 | 7.37 | 1.96 | 5.41 | -- | -- | 2,900 ² | 1,000 | 52 | 5.6 | 4.6 | 9.1 | 8,400 | -- |
| 03/04/99 | 7.37 | 2.17 | 5.20 | -- | -- | 4,490 ² | <2500 | 85.5 | 40.9 | <25 | <25 | 11,400 | -- |
| DESTROYED | | | | | | | | | | | | | |
| MW-4A | | | | | | | | | | | | | |
| 04/19/99 | 7.69 | 2.78 | 4.91 | -- | -- | 370 ² | <500 | <5.0 | <5.0 | <5.0 | <5.0 | 1600 | -- |
| 06/14/99 | 7.69 | 2.44 | 5.25 | -- | -- | 2,500 ² | 5,360 | 312 | <20 | 44 | <20 | 2880 | -- |
| 09/17/99 | 7.69 | 0.32 | 7.37 | -- | -- | 1,430 ² | 1,290 | 38.6 | <5.0 | 7.01 | <5.0 | 1780 | -- |
| 12/20/99 | 7.69 | 1.39 | 6.30 | -- | -- | 7,480 ² | 852 | 43.5 | 4.63 | 9.18 | 4.36 | 1070 | -- |
| 03/20/99 | 7.69 | 2.07 | 5.62 | -- | -- | 1,280 ² | 1,370 | 129 | 8.6 | 18.3 | 7.3 | 2,110 | -- |
| 06/24/00 | 7.69 | 1.57 | 6.12 | 0.00 | -- | 1,190 ⁹ | 190 ⁷ | 1.4 | 1.7 | 1.7 | 3.3 | 3,900 ⁷ | -- |
| 09/07/00 | 7.69 | 1.43 | 6.26 | 0.00 | -- | 740 ⁹ | 490 ⁷ | 15 | 1.9 | 1.1 | 3.9 | 3,300 | -- |
| 12/05/00 | 7.69 | 1.70 | 5.99 | 0.00 | -- | 560 ¹² | <500 | <5.00 | <5.00 | <5.00 | <5.00 | 3,380 ⁸ | -- |
| 03/01/01 | 7.69 | 2.01 | 5.68 | 0.00 | -- | 600 ⁹ | <1,000 | 10 | <10 | <10 | <10 | 4,600 | -- |
| MW-5 | | | | | | | | | | | | | |
| 06/23/92 | 14.14 | 1.90 | 12.24 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 08/24/92 | 14.14 | 1.85 | 12.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/21/92 | 14.14 | 1.68 | 12.46 | -- | -- | 60 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 10/26/92 | 14.14 | 1.62 | 12.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/23/92 | 14.14 | 3.02 | 11.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 01/08/93 | 14.14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/25/93 | 14.14 | 4.40 | 9.74 | -- | -- | <10 | <50 | <0.5 | <0.5 | <0.5 | 0.9 | -- | -- |
| 06/11/93 | 14.14 | 3.70 | 10.44 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | 770 |
| 09/29/93 | 14.14 | 2.22 | 11.92 | -- | -- | <10 | <50 | <0.5 | 0.6 | <0.5 | 0.6 | -- | -- |

As of 03/01/01

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH Thickness (ft.) | SPH Removed (gallons) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|------------------|--------------|--------------|--------------|---------------------------|-----------------------------|-----------------------|----------------|------------|------------|------------|------------|---------------|--------------|
| MW-5 (cont) | | | | | | | | | | | | | |
| 12/20/93 | 14.14 | -- | -- | -- | -- | <10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 03/07/94 | 14.14 | 2.80 | 11.34 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 06/17/94 | 14.14 | 2.87 | 11.27 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- |
| 09/12/94 | 14.14 | 1.28 | 12.86 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 11/30/94 | 14.14 | 2.23 | 11.91 | -- | -- | 99 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 03/24/95 | 14.14 | 4.38 | 9.76 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 06/27/95 | 14.14 | 2.74 | 11.40 | -- | -- | 55 ³ | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 09/28/95 | 14.14 | 2.24 | 11.90 | -- | -- | 300 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 12/19/95 | 14.14 | 1.56 | 12.58 | -- | -- | 53 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.1 | -- |
| 02/28/96 | 14.14 | 2.44 | 11.70 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/25/96 | 14.14 | 2.71 | 11.43 | -- | -- | 120 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 36 | -- |
| 12/17/96 | 14.14 | 2.74 | 11.40 | -- | -- | 89 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 03/31/97 | 14.14 | 2.04 | 12.10 | -- | -- | 150 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/30/97 | 14.14 | 1.36 | 12.78 | -- | -- | SAMPLED SEMI-ANNUALLY | | -- | -- | -- | -- | -- | -- |
| 09/12/97 | 14.14 | 0.46 | 13.68 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/05/97 | 14.14 | 1.11 | 13.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/16/98 | 14.14 | 4.17 | 9.97 | -- | -- | 62 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/17/98 | 14.14 | 2.29 | 11.85 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/31/98 | 14.14 | 1.32 | 12.82 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/28/98 | 14.14 | 0.71 | 13.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/04/99 | 14.14 | 0.39 | 13.75 | -- | -- | 70.5 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.34 | -- |
| 06/14/99 | 14.14 | 0.04 | 14.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/17/99 | 14.14 | -0.04 | 14.18 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/20/99 | 14.14 | 0.44 | 13.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/20/00 | 14.14 | 1.50 | 12.64 | -- | -- | 115 ³ | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/24/00 | 14.14 | 1.10 | 13.04 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/07/00 | 14.14 | 0.97 | 13.17 | 0.00 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | 5.0 | -- |
| 12/05/00 | 14.14 | 2.86 | 11.28 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/01/01 | 14.14 | 3.84 | 10.30 | 0.00 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH | SPH | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|------------------|--------------|--------------|--------------|--------------------|----------------------|-----------------------|----------------|------------|------------|------------|------------|---------------|--------------|
| | | | | Thickness (ft.) | Removed (gallons) | | | | | | | | |
| MW-6 | | | | | | | | | | | | | |
| 06/23/92 | 4.46 | -0.68 | 5.14 | -- | -- | 120 | <50 | 4.3 | <0.5 | 0.8 | 0.9 | -- | -- |
| 08/24/92 | 4.46 | -0.49 | 4.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/21/92 | 4.46 | -0.44 | 4.90 | -- | -- | <50 | <250 | <2.5 | <2.5 | <2.5 | <2.5 | -- | -- |
| 10/26/92 | 4.46 | -1.06 | 5.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/23/92 | 4.46 | -0.94 | 5.40 | -- | -- | 81 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 01/08/93 | 4.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/25/93 | 4.46 | -1.64 | 6.10 | -- | -- | <10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | 15,000 |
| 06/11/93 | 4.46 | -2.10 | 6.56 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 09/29/93 | 4.46 | -0.71 | 5.17 | -- | -- | <10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 12/20/93 | 4.46 | -1.47 | 5.93 | -- | -- | <10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 03/07/94 | 4.46 | -0.81 | 5.27 | -- | -- | <10 | 54 | <0.5 | <0.5 | <0.5 | 0.6 | -- | -- |
| 06/17/94 | 4.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/12/94 | 4.46 | -0.64 | 5.10 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <50 | -- |
| 11/30/94 | 4.46 | -1.12 | 5.58 | -- | -- | 800 ¹ | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 03/24/95 | 4.46 | -1.87 | 6.33 | -- | -- | 490 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 06/27/95 | 4.46 | -3.74 | 8.20 | -- | -- | 300 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 09/28/95 | 4.46 | -0.19 | 4.65 | -- | -- | 1,200 ² | 120 | 1.1 | <0.5 | <0.5 | <0.5 | -- | -- |
| 12/19/95 | 4.46 | -1.58 | 6.04 | -- | -- | 820 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 02/28/96 | 4.46 | -1.54 | 6.00 | -- | -- | 270 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/25/96 | 4.46 | -1.71 | 6.17 | -- | -- | 750 ² | 97 | <0.5 | <0.5 | <0.5 | 0.71 | <2.5 | -- |
| 12/17/96 | 4.46 | -1.67 | 6.13 | -- | -- | 540 ² | 65 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 03/31/97 | 4.46 | -2.23 | 6.69 | -- | -- | 780 ² | 65 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/30/97 | 4.46 | -2.62 | 7.08 | -- | -- | SAMPLED SEMI-ANNUALLY | | | | | | -- | -- |
| 09/12/97 | 4.46 | -0.95 | 5.41 | -- | -- | 270 ² | 65 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/05/97 | 4.46 | -1.96 | 6.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 02/16/98 | 4.46 | -0.30 | 4.76 | -- | -- | 330 ² | 140 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/17/98 | 4.46 | -1.54 | 6.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/31/98 | 4.46 | -0.64 | 5.10 | -- | -- | 270 ¹ | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/28/98 | 4.46 | -2.04 | 6.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/04/99 | 4.46 | -1.35 | 5.81 | -- | -- | 638 ¹ | 95.5 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH Thickness (ft.) | SPH Removed (gallons) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|--------------------|--------------|--------------|--------------|---------------------------|-----------------------------|-----------------------|----------------|------------|------------|------------|------------|---------------|--------------|
| MW-6 (cont) | | | | | | | | | | | | | |
| 06/14/99 | 4.46 | -0.97 | 5.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/17/99 | 4.46 | -1.74 | 6.20 | -- | -- | 258 ¹ | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/20/99 | 4.46 | -2.31 | 6.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/20/00 | 4.46 | -2.12 | 6.58 | -- | -- | 257 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/24/00 | 4.46 | -2.52 | 6.98 | 0.00 | -- | SAMPLED SEMI-ANNUALLY | | | | | | -- | -- |
| 09/07/00 | 4.46 | -0.46 | 4.92 | 0.00 | -- | 98 ¹¹ | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- |
| 12/05/00 | 4.46 | -0.64 | 5.10 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/01/01 | 4.46 | -0.43 | 4.89 | 0.00 | -- | 190 ⁹ | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- |
| MW-7 | | | | | | | | | | | | | |
| 08/24/92 | 5.26 | -0.29 | 5.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/21/92 | 5.26 | -0.39 | 5.65 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 10/26/92 | 5.26 | -0.25 | 5.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/23/92 | 5.26 | 1.31 | 3.95 | -- | -- | 60 | <50 | 2.9 | <0.5 | <0.5 | <0.5 | -- | -- |
| 01/08/93 | 5.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/25/93 | 5.26 | 2.76 | 2.50 | -- | -- | <10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | 2200 |
| 06/11/93 | 5.26 | 1.80 | 3.46 | -- | -- | -- | <50 | 0.6 | <0.5 | <0.5 | <0.5 | -- | -- |
| 09/29/93 | 5.26 | -0.26 | 5.52 | -- | -- | <10 | <50 | 2.0 | 1.0 | 1.0 | 7.0 | -- | -- |
| 12/20/93 | 5.26 | 0.85 | 4.41 | -- | -- | <10 | <50 | 2.0 | <0.5 | <0.5 | <0.5 | -- | -- |
| 03/07/94 | 5.26 | 2.64 | 2.62 | -- | -- | <10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 06/17/94 | 5.26 | 1.99 | 3.27 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <5.0 | -- |
| 09/12/94 | 5.26 | 1.15 | 4.11 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 11/30/94 | 5.26 | 2.50 | 2.76 | -- | -- | 92 ¹ | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 03/24/95 | 5.26 | 3.06 | 2.20 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 06/27/95 | 5.26 | 1.36 | 3.90 | -- | -- | 69 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 09/28/95 | 5.26 | 0.41 | 4.85 | -- | -- | 84 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/19/95 | 5.26 | 2.24 | 3.02 | -- | -- | 84 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 02/28/96 | 5.26 | 3.83 | 1.43 | -- | -- | 99 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/25/96 | 5.26 | 0.97 | 4.29 | -- | -- | 110 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (mst) | DTW (ft.) | SPH Thickness (ft.) | SPH Removed (gallons) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|------------------|--------------|--------------|--------------|---------------------------|-----------------------------|------------------|----------------|------------|------------|------------|------------|---------------|--------------|
| MW-7 (cont) | | | | | | 54 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/17/96 | 5.26 | 3.08 | 2.18 | -- | -- | 100 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 03/31/97 | 5.26 | 2.32 | 2.94 | -- | -- | SAMPLED ANNUALLY | | | | | | | -- |
| 06/30/97 | 5.26 | 1.68 | 3.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/12/97 | 5.26 | 1.85 | 3.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/05/97 | 5.26 | 3.37 | 1.89 | -- | -- | 77 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 02/16/98 | 5.26 | 3.43 | 1.83 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 06/17/98 | 5.26 | 3.32 | 1.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 08/31/98 | 5.26 | 1.07 | 4.19 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/28/98 | 5.26 | 0.79 | 4.47 | -- | -- | -- | -- | -- | -- | -- | -- | <2.0 | -- |
| 03/04/99 | 5.26 | 3.51 | 1.75 | -- | -- | 73.4 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 06/14/99 | 5.26 | 3.64 | 1.62 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/17/99 | 5.26 | 0.42 | 4.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/20/99 | 5.26 | 0.45 | 4.81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/20/00 | 5.26 | 3.41 | 1.85 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/24/00 | 5.26 | 3.05 | 2.21 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/07/00 | 5.26 | 1.61 | 3.65 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/05/00 | 5.26 | 2.31 | 2.95 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/01/01 | 5.26 | 4.61 | 0.65 | 0.00 | -- | <50 | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- |
| MW-8 | | | | | | | | | | | | | |
| 06/23/92 | 8.94 | -15.20 | 24.14 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 08/24/92 | 8.94 | 0.34 | 8.60 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/21/92 | 8.94 | 0.55 | 8.39 | -- | -- | <50 | 94 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 10/26/92 | 8.94 | -0.18 | 9.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/23/92 | 8.94 | 0.83 | 8.11 | -- | -- | 79 | <50 | 0.7 | 5.0 | 0.7 | 2.9 | -- | -- |
| 01/08/93 | 8.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/25/93 | 8.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3500 |
| 06/11/93 | 8.94 | 0.55 | 8.39 | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 09/29/93 | 8.94 | 0.69 | 8.25 | -- | -- | <10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |

As of 03/01/01

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-0121
 3026 Lakeshore Avenue
 Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH Thickness (ft.) | SPH Removed (gallons) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) | |
|------------------|--------------|--------------|--------------|---------------------------|-----------------------------|-------------------|----------------|------------|------------|------------|------------|---------------|--------------|----|
| MW-8 (cont) | | | | | | | | | | | | | | |
| 12/20/93 | 8.94 | 0.48 | 8.46 | -- | -- | <10 | <50 | <0.5 | 0.6 | <0.5 | 1.0 | -- | -- | |
| 03/07/94 | 8.94 | 0.28 | 8.66 | -- | -- | <10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | |
| 06/17/94 | 8.94 | 0.12 | 8.82 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | |
| 09/12/94 | 8.94 | 0.11 | 8.83 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | 0.8 | <5.0 | -- | |
| 11/30/94 | 8.94 | 0.31 | 8.63 | -- | -- | 120 ¹ | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | |
| 03/24/95 | 8.94 | 0.43 | 8.51 | -- | -- | 110 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | |
| 06/27/95 | 8.94 | -0.03 | 8.97 | -- | -- | 67 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- | |
| 09/28/95 | 8.94 | 0.04 | 8.90 | -- | -- | 91 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | |
| 12/19/95 | 8.94 | 0.54 | 8.40 | -- | -- | 76 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | |
| 02/28/96 | 8.94 | 0.50 | 8.44 | -- | -- | <50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | |
| 06/25/96 | 8.94 | 0.05 | 8.89 | -- | -- | 80 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | |
| 12/17/96 | 8.94 | 0.49 | 8.45 | -- | -- | 79 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- | |
| 03/31/97 | 8.94 | 0.18 | 8.76 | -- | -- | 72 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.6 | -- | |
| 06/30/97 | 8.94 | -0.18 | 9.12 | -- | -- | SAMPLED ANNUALLY | | | | | | | -- | -- |
| 09/12/97 | 8.94 | 0.13 | 8.81 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/05/97 | 8.94 | 0.59 | 8.35 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 02/16/98 | 8.94 | 1.00 | 7.94 | -- | -- | 68 ² | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.3 | -- | |
| 06/17/98 | 8.94 | 0.51 | 8.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 08/31/98 | 8.94 | 0.06 | 8.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/28/98 | 8.94 | 0.64 | 8.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 03/04/99 | 8.94 | 0.29 | 8.65 | -- | -- | 106 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.83 | -- | |
| 06/14/99 | 8.94 | 0.52 | 8.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 09/17/99 | 8.94 | -0.93 | 9.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/20/99 | 8.94 | 0.54 | 8.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 03/20/00 | 8.94 | 0.82 | 8.12 | -- | -- | 82.2 ⁶ | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.46 | -- | |
| 06/24/00 | 8.94 | 0.31 | 8.63 | 0.00 | -- | SAMPLED ANNUALLY | | | | | | | -- | |
| 09/07/00 | 8.94 | 0.26 | 8.68 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 12/05/00 | 8.94 | 0.81 | 8.13 | 0.00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| 03/01/01 | 8.94 | 1.04 | 7.90 | 0.00 | -- | 51 ¹¹ | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- | |

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-0121
 3026 Lakeshore Avenue
 Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH Thickness (ft.) | SPH Removed (gallons) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|-------------------|--------------|--------------|--------------|---------------------------|-----------------------------|---------------------|--------------------|------------|------------|------------|------------|---------------|--------------|
| MW-9 | | | | | | 2,600 ² | 3,900 ⁶ | 14 | 6.9 | 14 | 24 | 140 | -- |
| 04/19/99 | 5.87 | 2.71 | 3.16 | -- | -- | 2,800 ² | 2,880 | 12.6 | <10 | <10 | <10 | 138 | -- |
| 06/14/99 | 5.87 | 1.06 | 4.81 | -- | -- | 1,770 ² | 3,370 | 33.1 | 14.4 | <5.0 | <5.0 | 202 | -- |
| 09/17/99 | 5.87 | 1.02 | 4.85 | -- | -- | 996 ² | 3,970 | 42.2 | 13.5 | <10 | <10 | 311 | -- |
| 12/20/99 | 5.87 | 1.87 | 4.00 | -- | -- | 2,710 ² | 5,920 | 22.1 | <5.0 | 6.8 | <5.0 | 106.0 | -- |
| 03/20/00 | 5.87 | 2.87 | 3.00 | -- | -- | 1,940 ⁹ | 2,500 ⁷ | 12 | <10 | 11 | <10 | 120 | -- |
| 06/24/00 | 5.87 | 1.96 | 3.91 | 0.00 | -- | 1,500 ⁹ | 3,700 ⁷ | <25 | <25 | <25 | <25 | 330 | -- |
| 09/07/00 | 5.87 | 1.59 | 4.28 | 0.00 | -- | 1,300 ¹² | 3,470 ² | <5.00 | 7.64 | <5.00 | <5.00 | 177 | -- |
| 12/05/00 | 5.87 | 2.07 | 3.80 | 0.00 | -- | 960 ⁹ | 2,400 ⁷ | 11 | 18.0 | <10 | <10 | 250 | -- |
| 03/01/01 | 5.87 | 3.19 | 2.68 | 0.00 | -- | | | | | | | | |
| TRIP BLANK | | | | | | | | | | | | | |
| 08/24/92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 09/21/92 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 10/26/92 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/23/92 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 01/08/93 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 03/25/93 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 06/11/93 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 09/29/93 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 12/20/93 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 03/07/94 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 06/17/94 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | 1.0 | -- | -- |
| 09/12/94 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 11/30/94 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 03/24/95 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 06/27/95 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 09/28/95 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 12/19/95 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 02/28/96 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
 Chevron Service Station #9-0121
 3026 Lakeshore Avenue
 Oakland, California

| WELL ID/ DATE | TOC (ft.) | GWE (msl) | DTW (ft.) | SPH Thickness (ft.) | SPH Removed (gallons) | TPH-D (ppb) | TPH-G (ppb) | B (ppb) | T (ppb) | E (ppb) | X (ppb) | MTBE (ppb) | TDS (ppb) |
|--------------------------|--------------|--------------|--------------|---------------------------|-----------------------------|----------------|----------------|------------|------------|------------|------------|---------------|--------------|
| TRIP BLANK (cont) | | | | | | | <50 | <0.5 | <0.5 | <0.5 | <0.5 | -- | -- |
| 06/25/96 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/17/96 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 03/31/97 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/30/97 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 09/12/97 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/05/97 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 02/16/98 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/17/98 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 08/31/98 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/28/98 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.0 | -- |
| 03/04/99 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 06/14/99 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 09/17/99 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 12/20/99 | -- | -- | -- | -- | -- | -- | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <2.5 | -- |
| 03/20/00 | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- |
| 06/24/00 | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- |
| 09/07/00 | -- | -- | -- | -- | -- | -- | <50 | <0.500 | <0.500 | <0.500 | <0.500 | <2.5 | -- |
| 12/05/00 | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- |
| 03/01/01 | -- | -- | -- | -- | -- | -- | <50 | <0.50 | <0.50 | <0.50 | <0.50 | <2.5 | -- |

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 24, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing

(ft.) = Feet

GWE = Groundwater Elevation

(msl) = Mean sea level

DTW = Depth to Water

SPH = Separate Phase Hydrocarbons

TPH-D = Total Petroleum Hydrocarbons as Diesel

TPH-G = Total Petroleum Hydrocarbons as Gasoline

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MTBE = Methyl tertiary butyl ether

(ppb) = Parts per billion

TDS = Total Dissolved Solids

-- = Not Measured/Not Analyzed

- 1 Chromatogram pattern indicates a non-diesel mix.
- 2 Chromatogram pattern indicates an unidentified hydrocarbon.
- 3 Chromatogram pattern indicates an unidentified hydrocarbon and weathered diesel.
- 4 Confirmation run.
- 5 ORC in well.
- 6 Laboratory report indicates gasoline and unidentified hydrocarbons >10.
- 7 Laboratory report indicates gasoline C6-C12.
- 8 Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.
- 9 Laboratory report indicates unidentified hydrocarbons C9-C24.
- 10 Laboratory report indicates unidentified hydrocarbons C10-C24.
- 11 Laboratory report indicates unidentified hydrocarbons >C16.
- 12 Laboratory report indicates unidentified hydrocarbons C9-C40.
- 13 Laboratory report indicates diesel C9-C24+ unidentified hydrocarbons <C16.
- 14 Laboratory report indicates weathered gasoline C6-C12.

Table 2
Groundwater Analytical Results
 Chevron Service Station #9-0121
 3026 Lakeshore Avenue
 Oakland, California

| WELL ID/ DATE | Total Alkalinity (ppb) | Ferrous Iron (ppb) | Sulfate (ppb) | Nitrate (ppb) |
|--------------------------|-----------------------------------|-------------------------------|--------------------------|--------------------------|
| MW-1 12/28/98 | 390,000 | 4900 | <1000 | <1000 |
| MW-3 12/28/98 | 980,000 | 4500 | 390,000 | <1000 |
| MW-4 12/28/98 | 670,000 | 3500 | 6800 | <1000 |
| MW-5 12/28/98 | 480,000 | 15 | 51,000 | <1000 |
| MW-6 12/28/98 | 2,400,000 | 810 | 110,000 | <1000 |
| MW-7 12/28/98 | 350,000 | 12,000 | 79,000 | <1000 |
| MW-8 12/28/98 | 1,100,000 | 45 | 87,000 | <1000 |

EXPLANATIONS:

Groundwater laboratory analytical results were compiled from reports prepared by Blaine Tech Services, Inc.

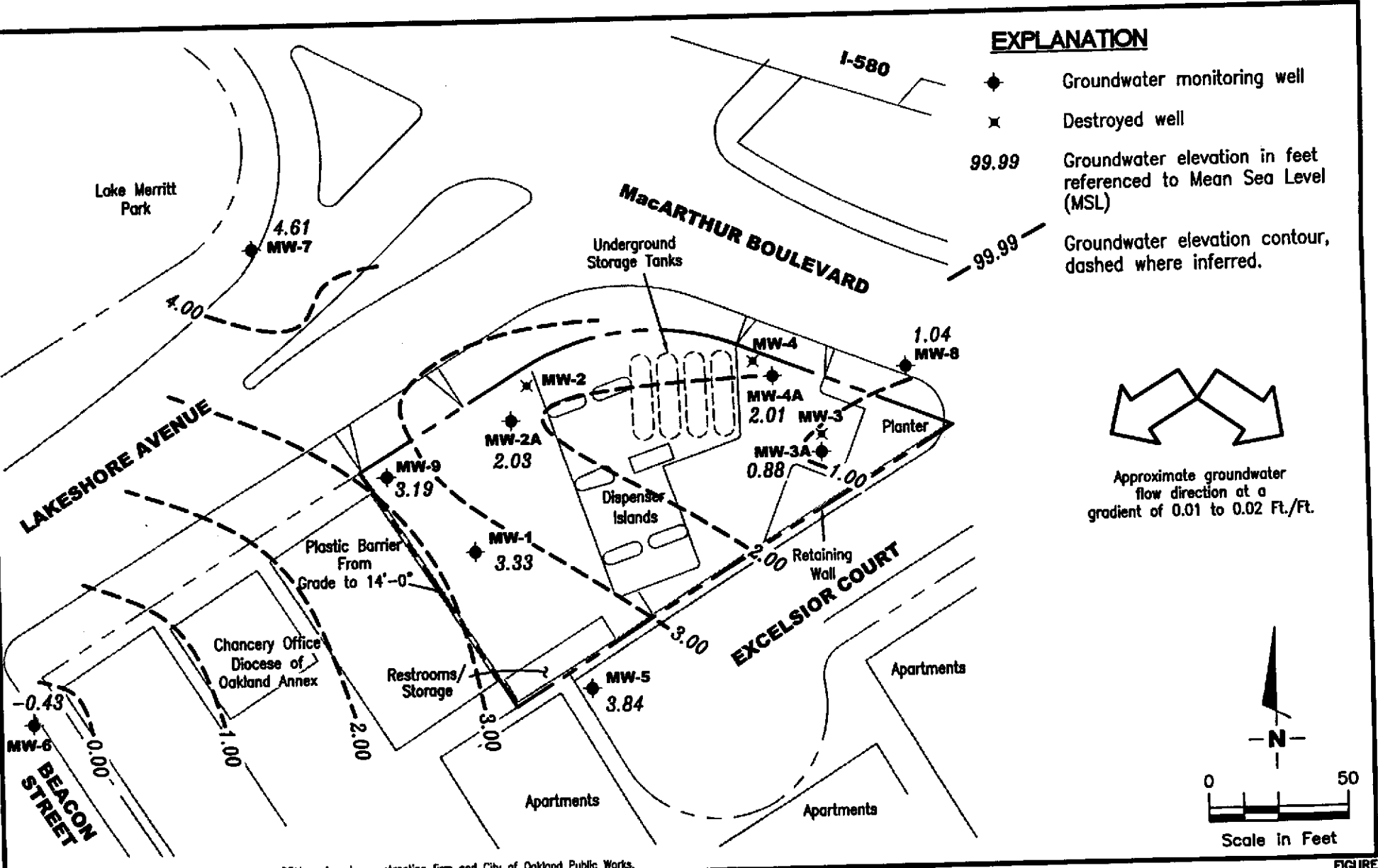
(ppb) = Parts per billion

Table 3
Dissolved Oxygen Concentrations
 Chevron Service Station #9-0121
 3026 Lakeshore Avenue
 Oakland, California

| WELL ID | DATE | Before Purging (mg/L) | After Purging (mg/L) |
|---------|----------|--------------------------|-------------------------|
| MW-1 | 06/24/00 | 5.3 | -- |
| | 09/07/00 | 4.02 | -- |
| | 12/05/00 | 3.86 | -- |
| | 03/01/01 | 3.04 | -- |

EXPLANATIONS:

(mg/L) = Milligrams per liter
 -- = Not Measured

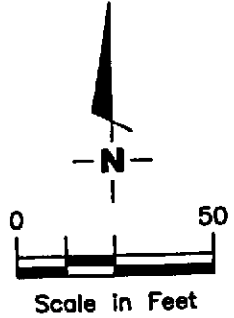


EXPLANATION

- ◆ Groundwater monitoring well
- ✕ Destroyed well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - Groundwater elevation contour, dashed where inferred.



Approximate groundwater flow direction at a gradient of 0.01 to 0.02 Ft./Ft.



Source: Figure modified from drawings provided by RRM engineering contracting firm and City of Oakland Public Works.

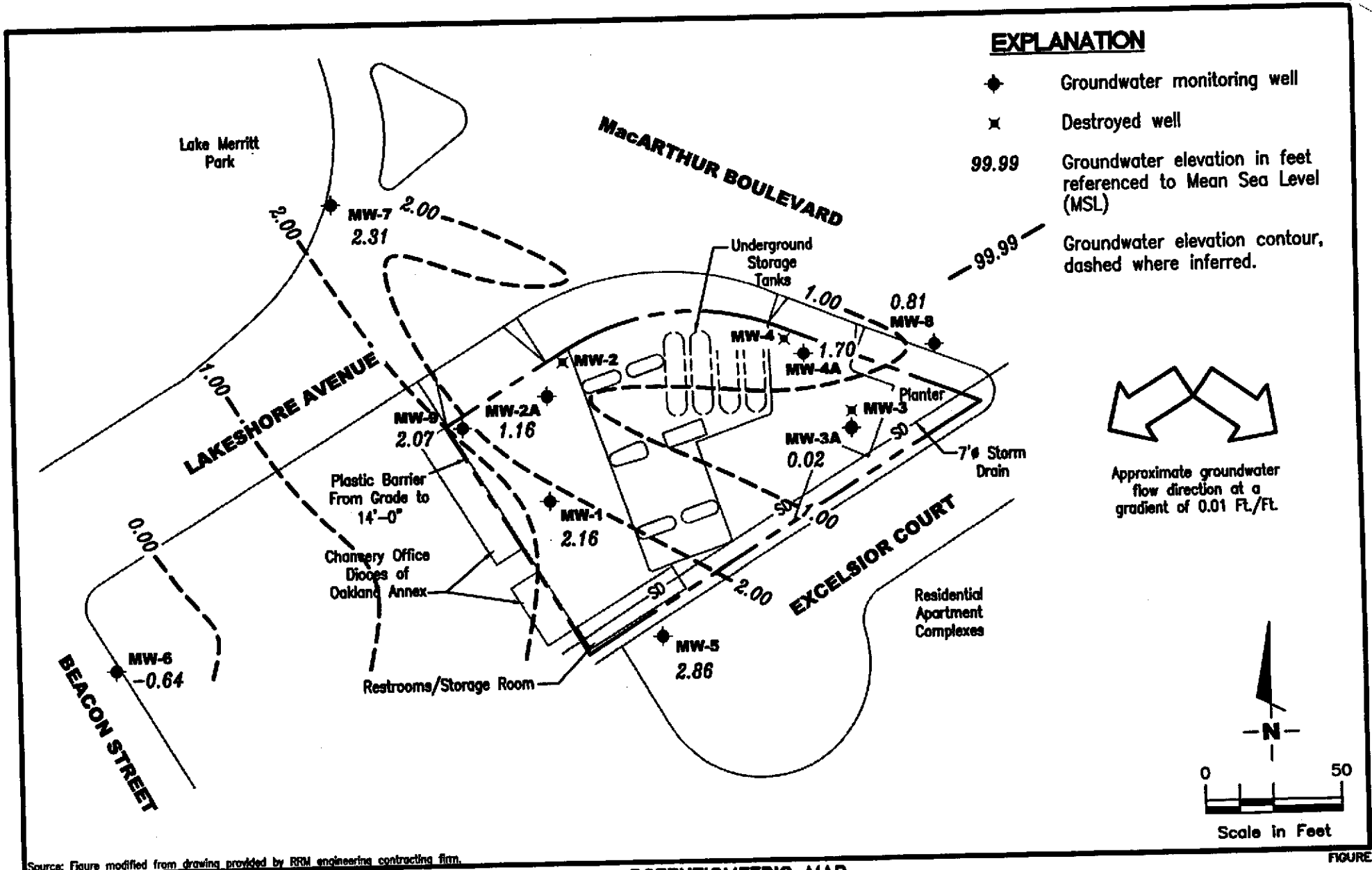
FIGURE

GETTLER - RYAN Inc.
 6747 Sierra Ct., Suite J
 Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
 Chevron Service Station #9-0121
 3026 Lakeshore Avenue
 Oakland, California

1

| | | | |
|--------------------------|-------------|-----------------------|--------------|
| PROJECT NUMBER 386462 | REVIEWED BY | DATE March 1, 2001 | REVISED DATE |
|--------------------------|-------------|-----------------------|--------------|



Source: Figure modified from drawing provided by RRM engineering contracting firm.

FIGURE



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

1

JOB NUMBER
386462

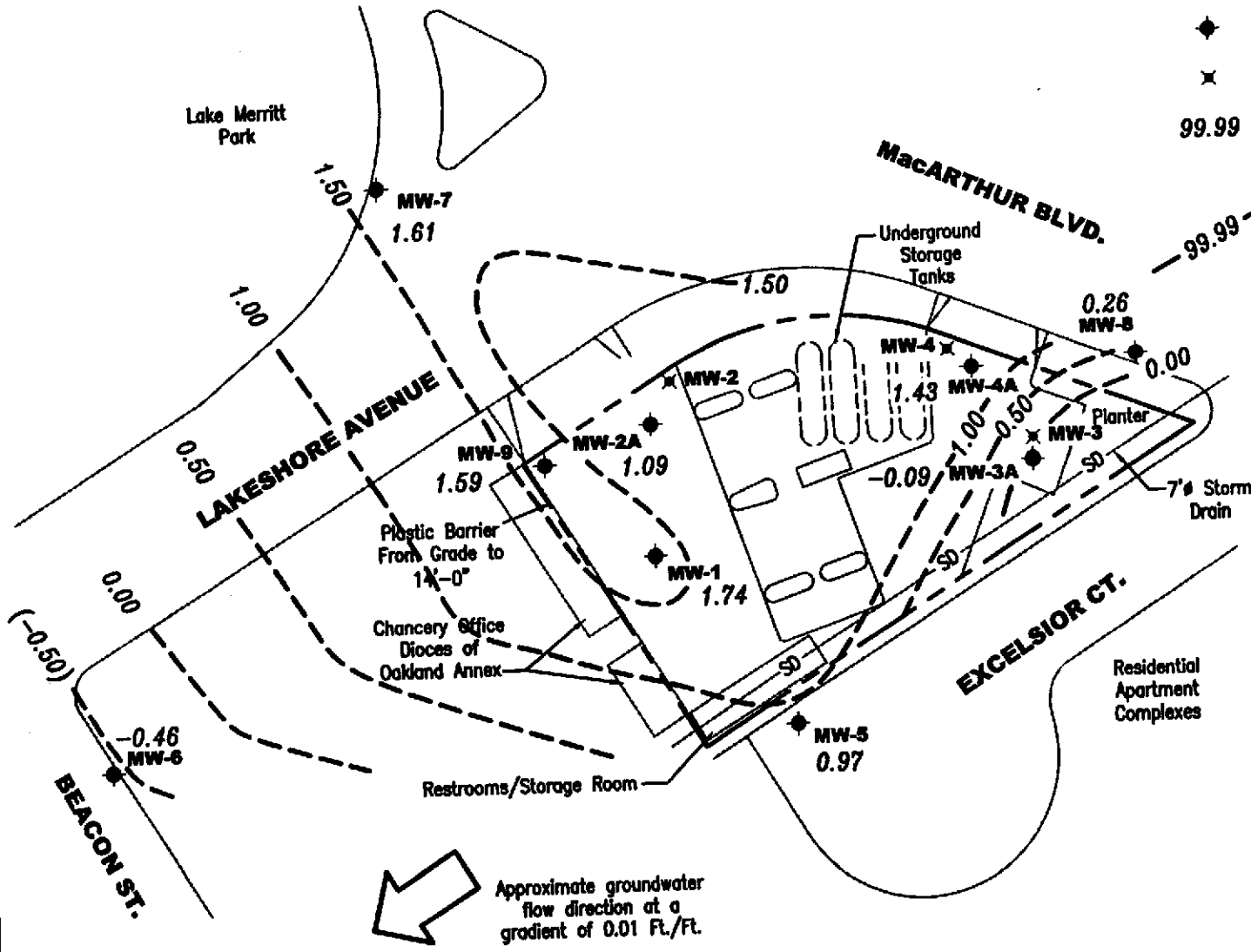
REVIEWED BY

DATE
December 5, 2000

REVISED DATE

EXPLANATION

- ◆ Groundwater monitoring well
- ✕ Destroyed well
- 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
- - - Groundwater elevation contour, dashed where inferred.



Approximate groundwater flow direction at a gradient of 0.05 Ft./Ft.

Approximate groundwater flow direction at a gradient of 0.01 Ft./Ft.

Source: Figure modified from drawing provided by RRM engineering contracting firm.

FIGURE



Gettler - Ryan Inc.

8747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

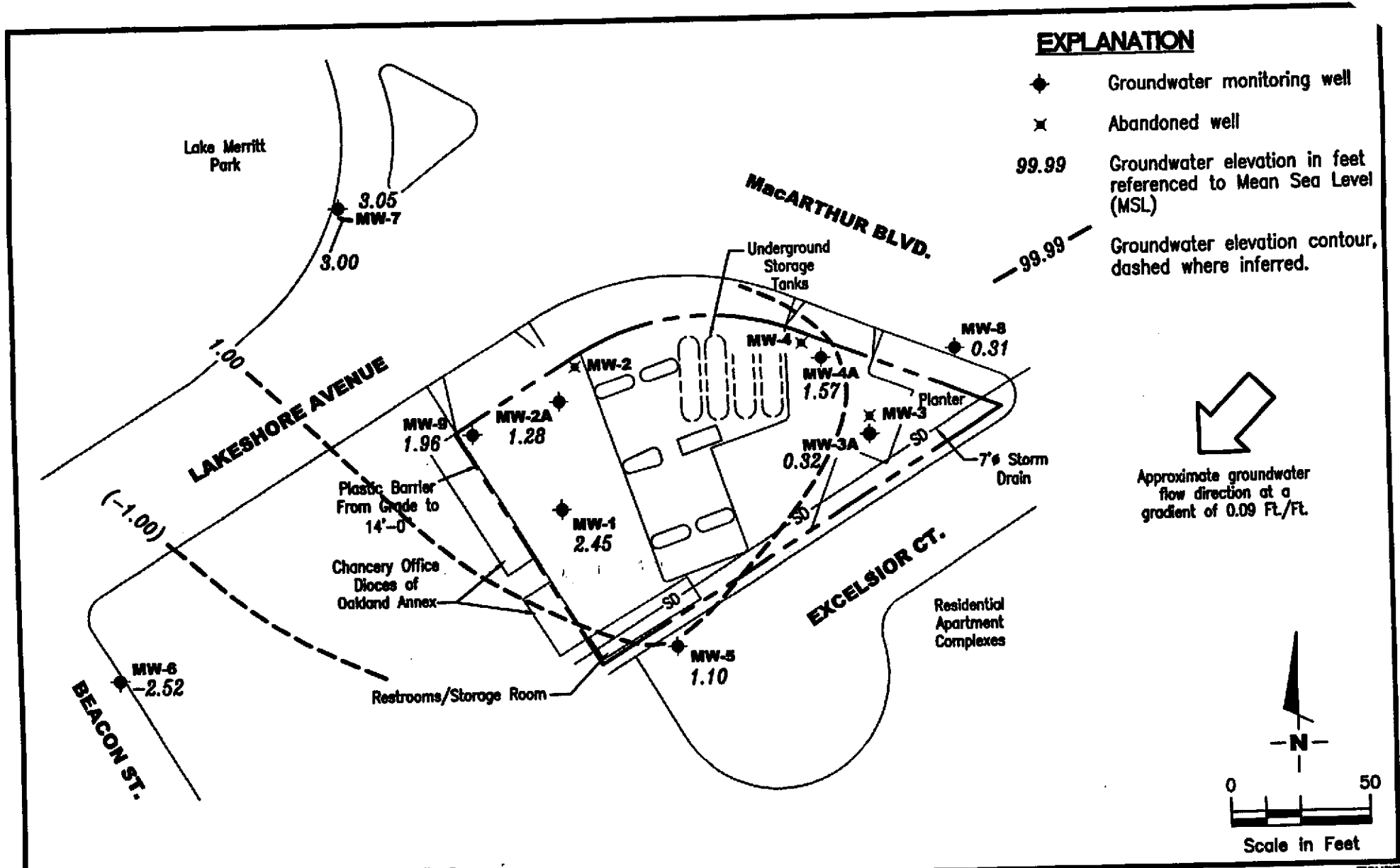
1

JOB NUMBER
386462

REVIEWED BY

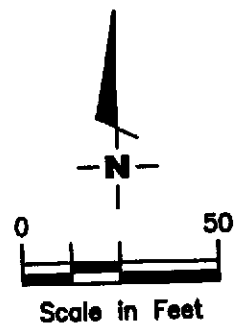
DATE
September 7, 2000

REVISED DATE



- EXPLANATION**
- ◆ Groundwater monitoring well
 - ✕ Abandoned well
 - 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
 - - - - Groundwater elevation contour, dashed where inferred.

Approximate groundwater flow direction at a gradient of 0.09 Ft./Ft.



Source: Figure modified from drawing provided by RRM engineering contracting firm.

FIGURE



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Chevron Service Station #9-0121
3026 Lakeshore Avenue
Oakland, California

1

JOB NUMBER
386462

REVIEWED BY

DATE
June 24, 2000

REVISED DATE



SCALE (ft)



EXPLANATION

⊙ MONITORING WELL LOCATION

∅ DESTROYED WELL LOCATION

3.41 GROUNDWATER ELEVATION (FT, MSL)

— GROUNDWATER ELEVATION CONTOUR (FT, MSL)

↓ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.03

• DATA NOT USED IN CONTOUR

LAKE MERRITT
PARK

MW-7
3.41

3.0

MacARTHUR BLVD.

LAKESHORE AVENUE

MW-2A
1.74

U/G TANKS

MW-2

MW-4A
2.07

MW-4

MW-8
0.82

MW-9
2.87

PLASTIC BARRIER
FROM GRADE TO 14'

MW-3A
1.06

MW-3

7" DIAMETER
STORM DRAIN

MW-1
3.11*

CHANCERY OFFICE
DIOCES OF
OAKLAND ANNEX

EXCELSIOR CT.

RESIDENTIAL
APARTMENT COMPLEXES

MW-6
-2.12

RESTROOMS/STORAGE ROOM

-1.0

BRACON ST.



Basemap from Geoconsultants, inc.

PREPARED BY

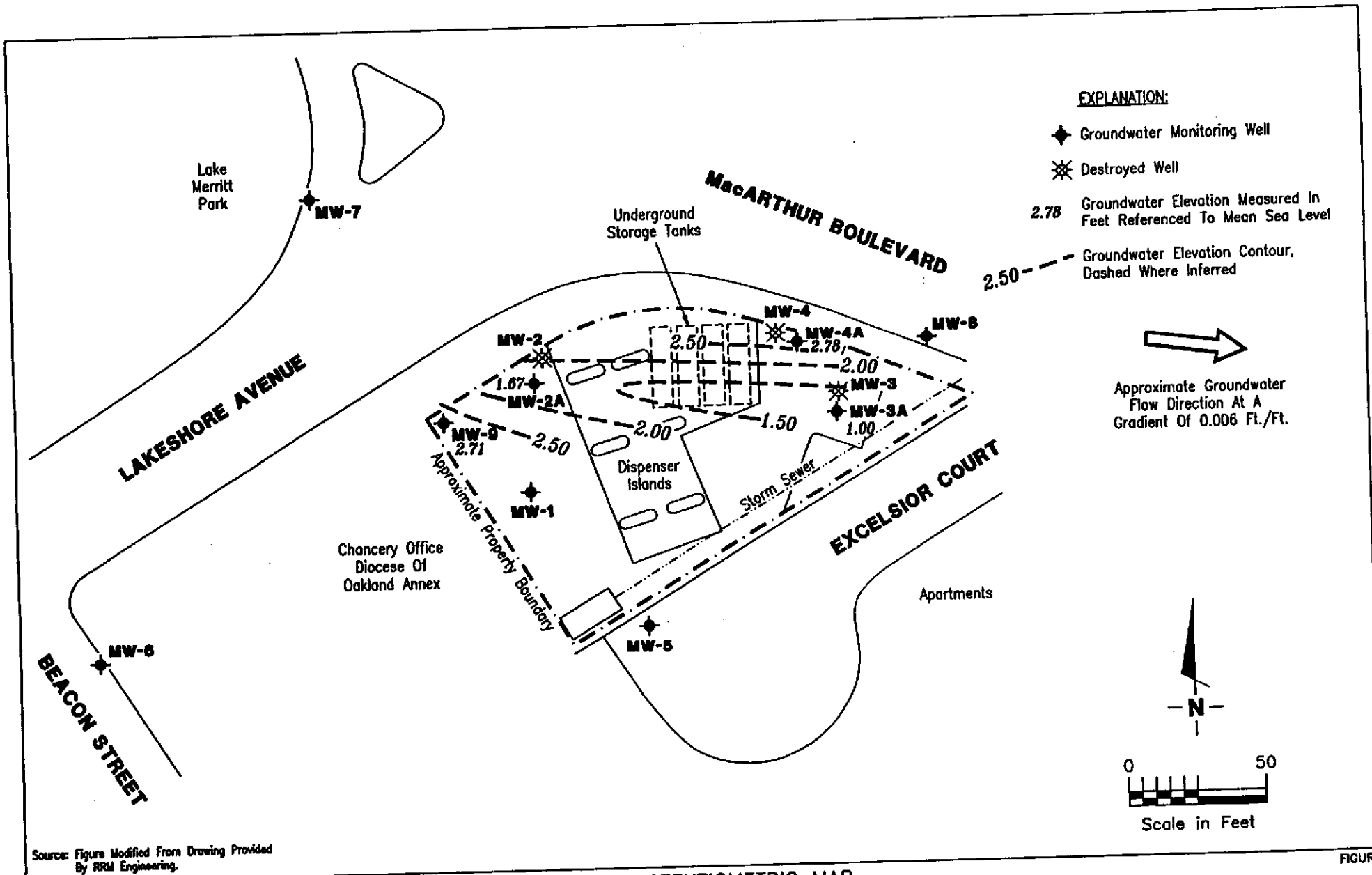


Chevron Station 9-0121
3026 Lakeshore Avenue
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP,
MARCH 20, 2000

FIGURE:
1

PROJECT:
DAC04



FIGURE

2



Gettler - Ryan Inc.

6747 Sierra Ct., Suite J (925) 551-7555
Dublin, CA 94568

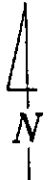
POTENTIOMETRIC MAP
Chevron Service Station No. 9-0121
3026 Lakeshore Avenue
Oakland, California

JOB NUMBER
346462

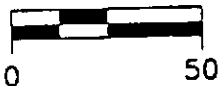
REVIEWED BY
[Signature]

DATE
April 19, 1999

REVISED DATE



SCALE (ft)



EXPLANATION

⊙ MONITORING WELL LOCATION

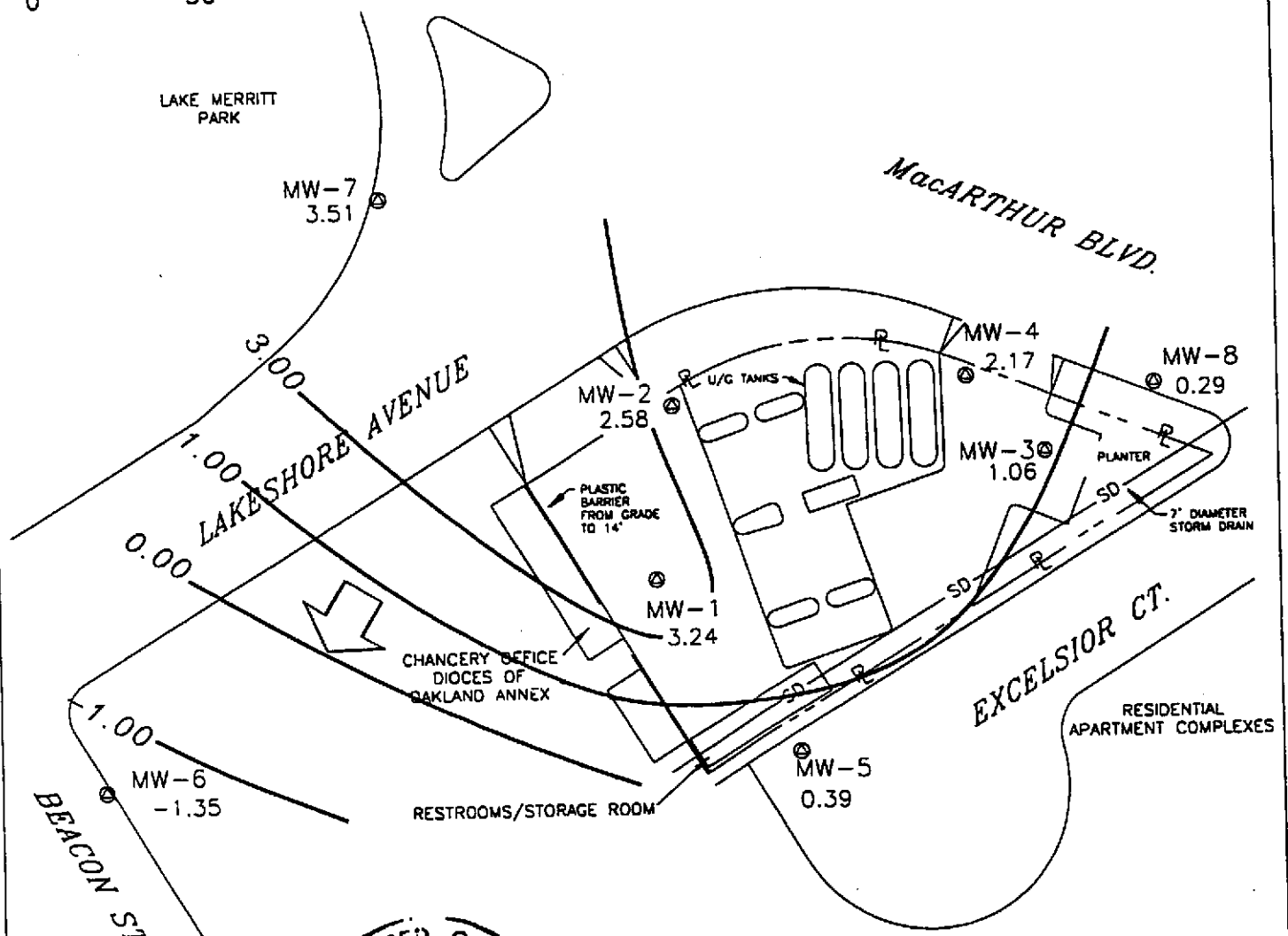
2.17 GROUNDWATER ELEVATION (FT. MSL)

— GROUNDWATER ELEVATION CONTOUR (FT. MSL)

3.00



APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.02



Basemap from Geoconsultants, Inc.

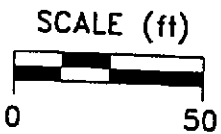
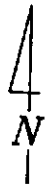
PREPARED BY



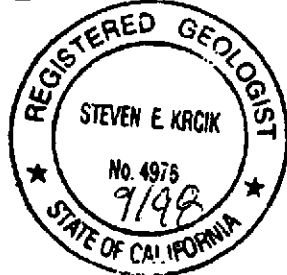
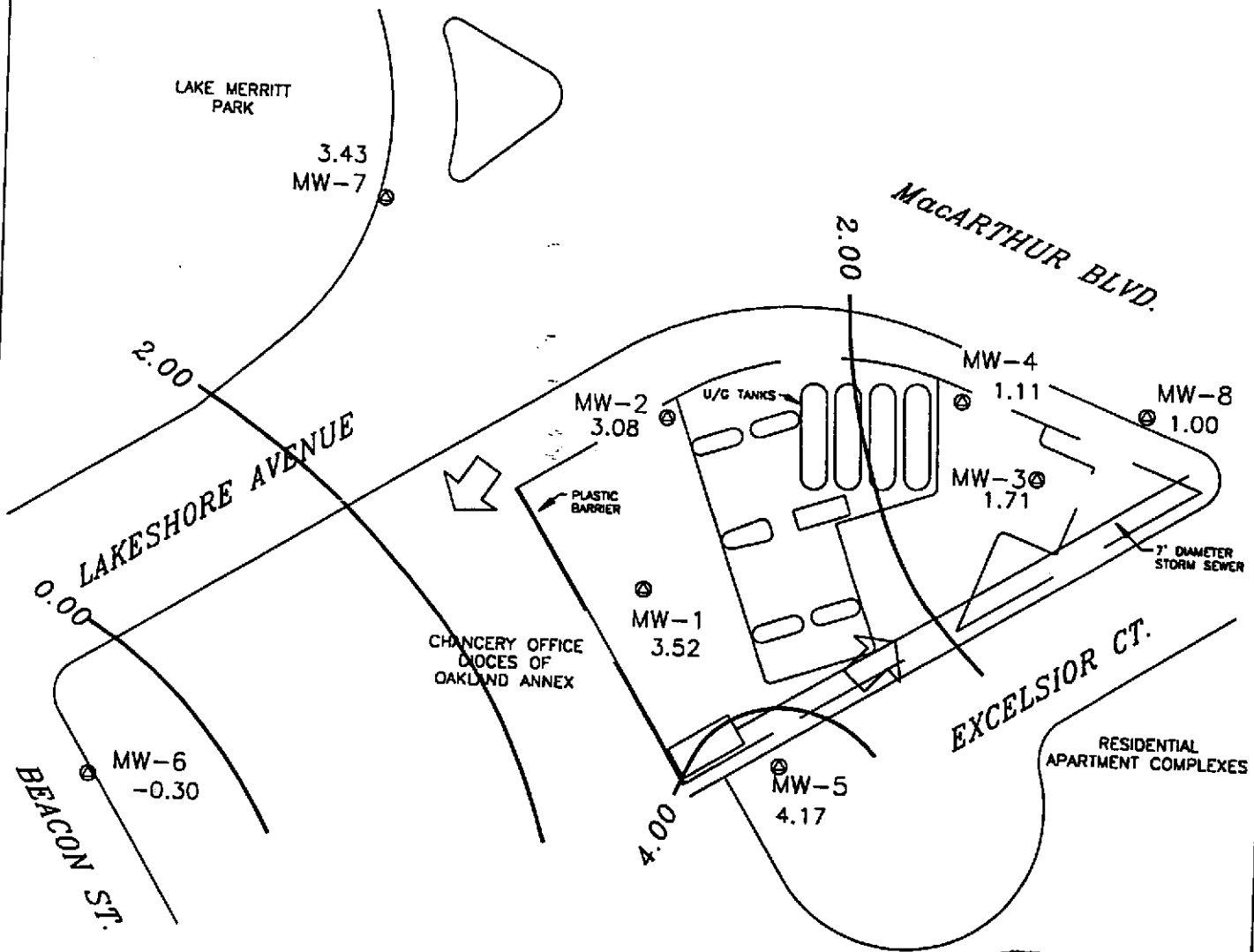
Chevron Station 9-0121
3026 Lakeshore Avenue
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP,
MARCH 4, 1999

FIGURE:
1
PROJECT:
DAC04



- EXPLANATION**
- ⊙ MONITORING WELL LOCATION
 - 3.08 GROUNDWATER ELEVATION (FT, MSL)
 - 0.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
 - ⇨ APPROXIMATE GROUNDWATER FLOW DIRECTION; APPROXIMATE GRADIENT = 0.02



Base map from Geoconsultants, Inc.

PREPARED BY

RRM

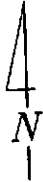
engineering contracting firm

Chevron Station 9-0121
 3026 Lakeshore Avenue
 Oakland, California

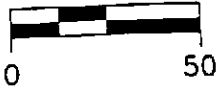
GROUNDWATER ELEVATION CONTOUR MAP,
 FEBRUARY 16, 1998

FIGURE:
 1

PROJECT:
 DAC04

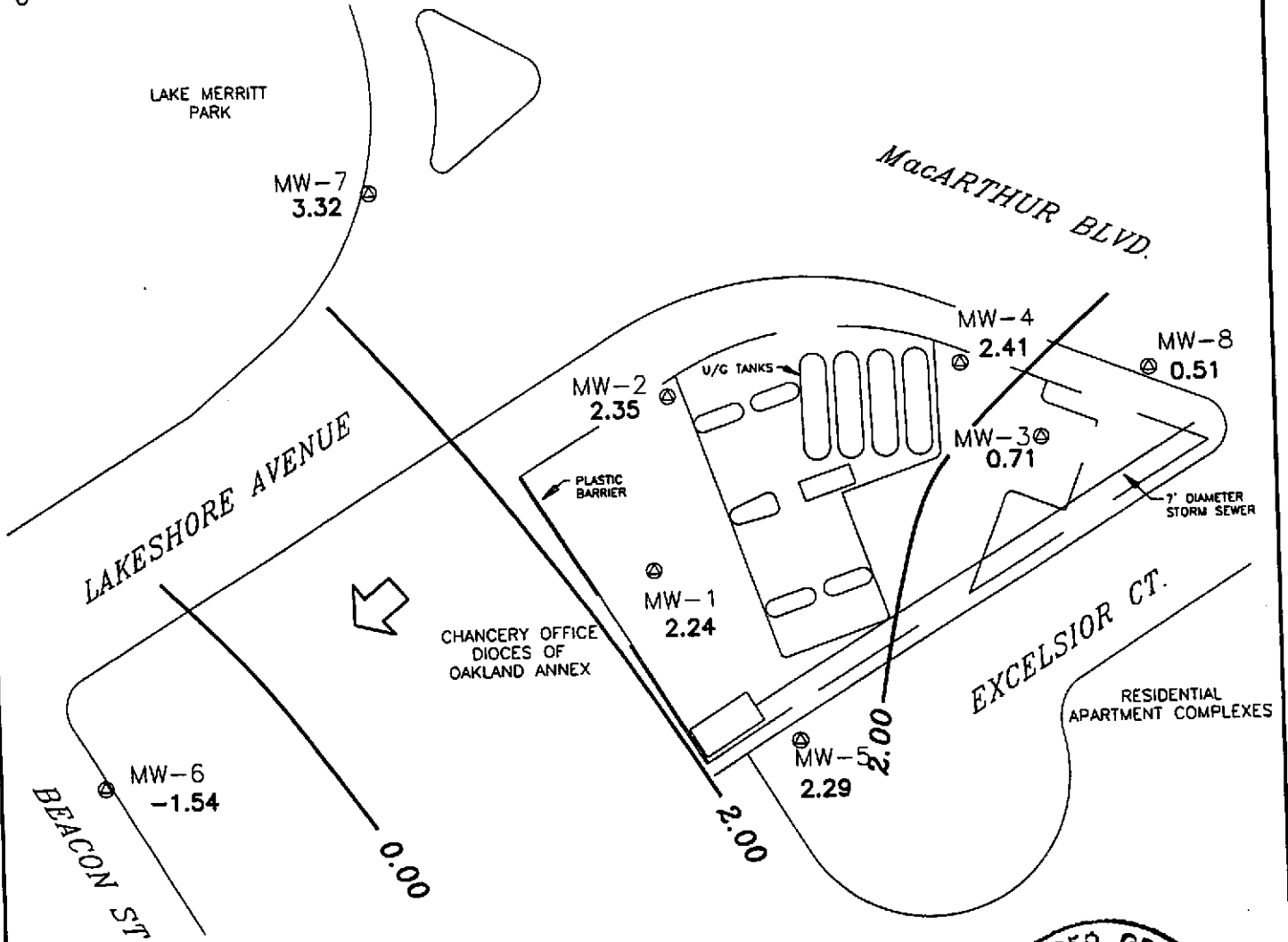


SCALE (ft)



EXPLANATION

- ⊙ MONITORING WELL LOCATION
- 3.32 GROUNDWATER ELEVATION (FT, MSL)
- GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ⇨ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.03



Base map from Geoconsultants, Inc.

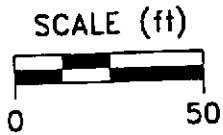
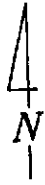
PREPARED BY

engineering contracting firm

Chevron Station 9-0121
3026 Lakeshore Avenue
Oakland, California

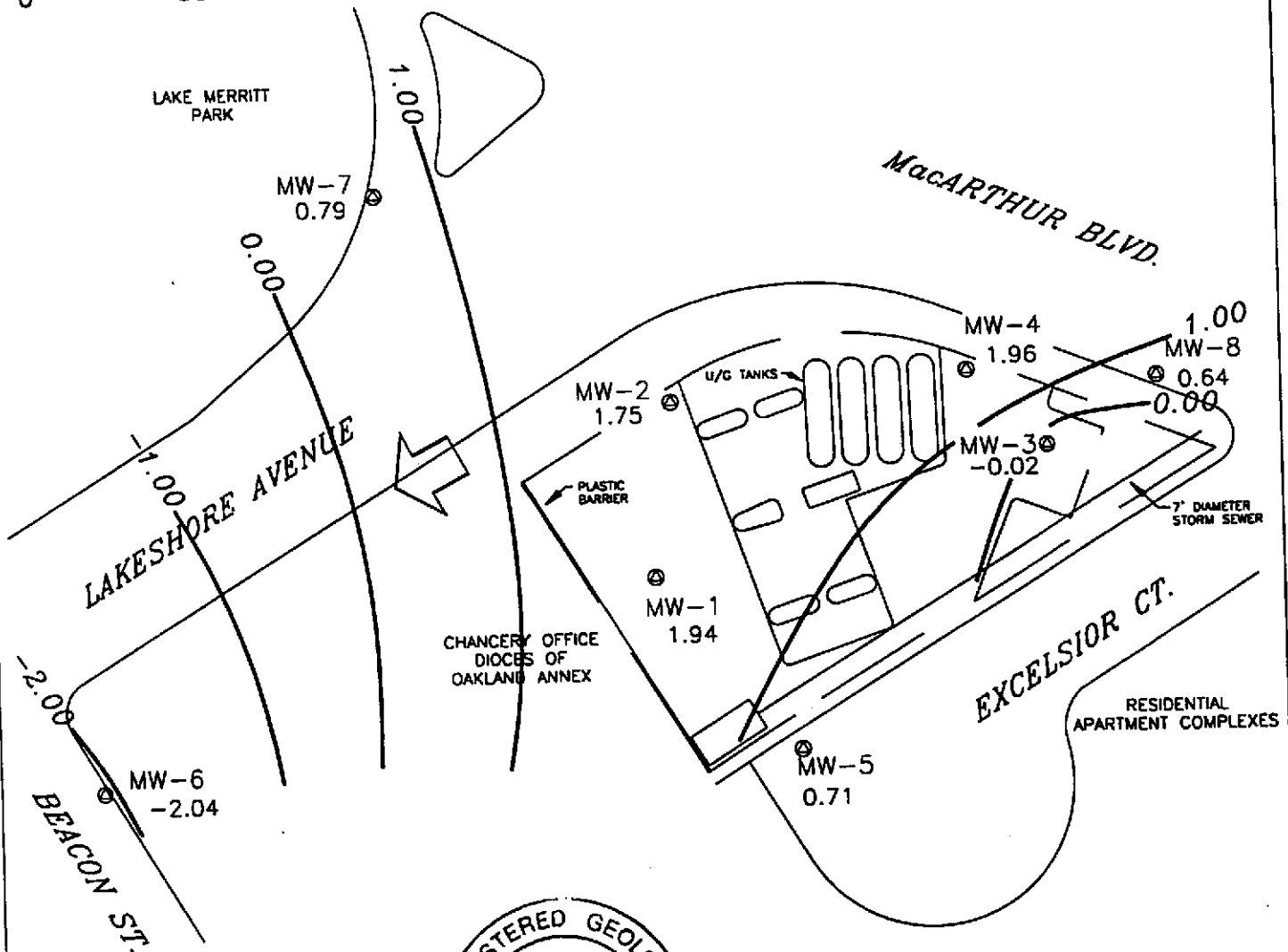
GROUNDWATER ELEVATION CONTOUR MAP,
JUNE 17, 1998

FIGURE:
1
PROJECT:
DAC04



EXPLANATION

- ⊙ MONITORING WELL LOCATION
- 0.79 GROUNDWATER ELEVATION (FT. MSL)
- 1.00 — GROUNDWATER ELEVATION CONTOUR (FT. MSL)
- ⇨ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.01



Basemap from Geoconsultants, Inc.

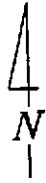
PREPARED BY



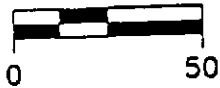
Chevron Station 9-0121
3026 Lakeshore Avenue
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP,
DECEMBER 28, 1998

FIGURE:
1
PROJECT:
DAC04

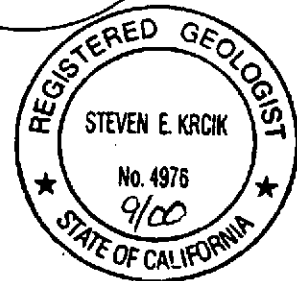
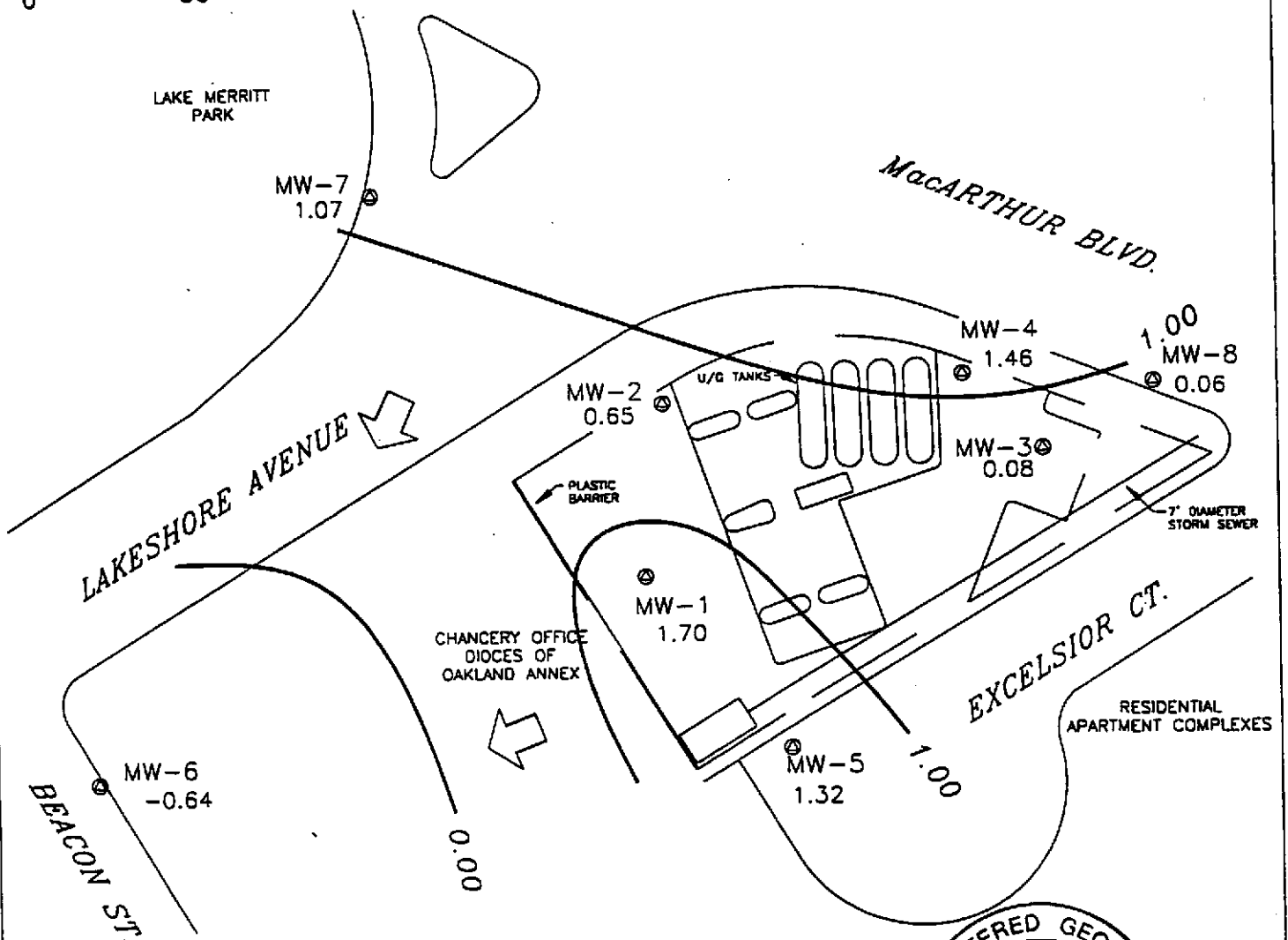


SCALE (ft)



EXPLANATION

- ⊙ MONITORING WELL LOCATION
- 1.07 GROUNDWATER ELEVATION (FT, MSL)
- GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ⇨ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.03



Borrowed from Geoconsultants, Inc.

PREPARED BY

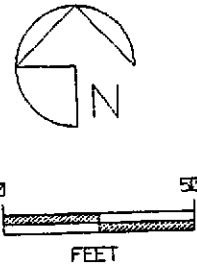
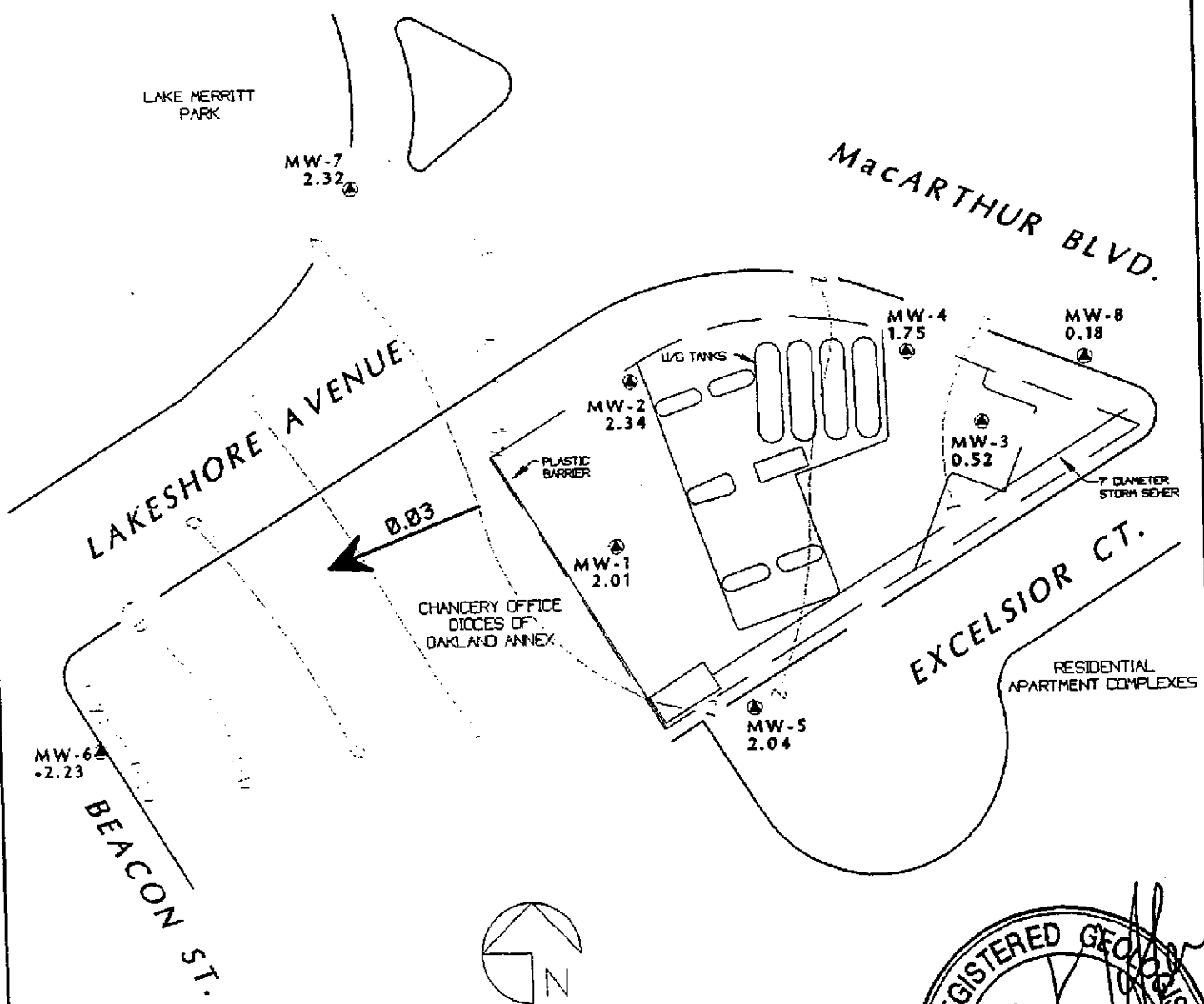
RRM
engineering contracting firm

Chevron Station 9-0121
3026 Lakeshore Avenue
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP,
AUGUST 31, 1998

FIGURE:
1
PROJECT:
DAC04

| EXPLANATION | |
|-------------|-------------------------------------------------------------------------------|
| ⊙ MW-7 | MONITORING WELL LOCATION AND WELL NUMBER |
| 2.32 | GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL |
| — 2 | GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL |
| 0.03 → | APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET |



TITLE : GROUND-WATER ELEVATION CONTOUR MAP - MARCH 31, 1997
 LOCATION : CHEVRON SERVICE STATION 9-0121
 3026 LAKESHORE AVENUE, OAKLAND, CALIFORNIA



GEOCONSULTANTS, INC
 SAN JOSE, CALIFORNIA
 Project No. G758-09

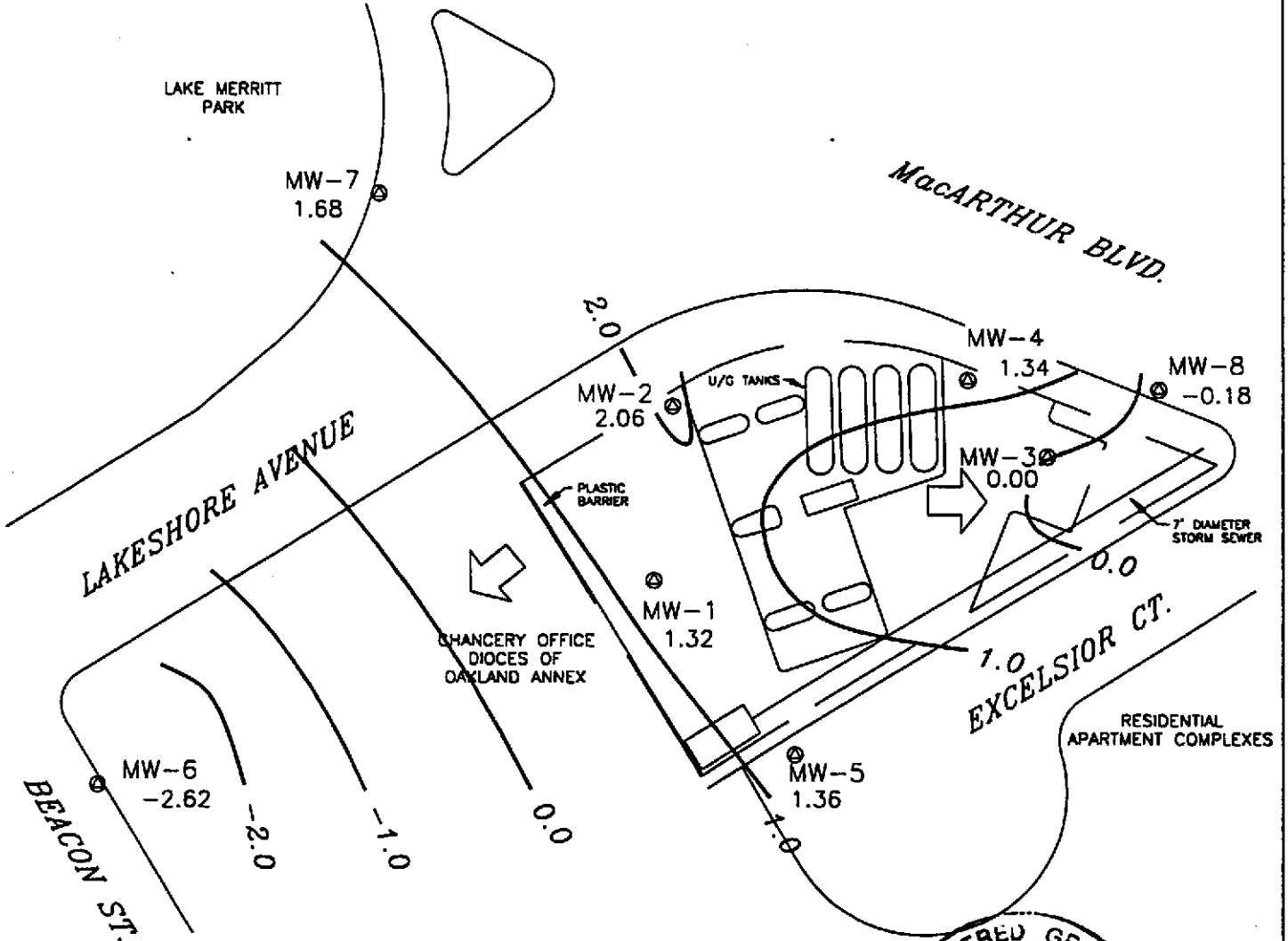


SCALE (ft)



EXPLANATION

- ⊙ MONITORING WELL LOCATION
- 2.06 GROUNDWATER ELEVATION (FT. MSL)
- 2.0 — GROUNDWATER ELEVATION CONTOUR (FT. MSL)
- ⇨ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.02



Basemap from Geoconsultants, Inc.

PREPARED BY

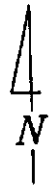


Chevron Station 9-0121
3026 Lakeshore Avenue
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP,
JUNE 30, 1997

FIGURE:
1

PROJECT:
DAC04

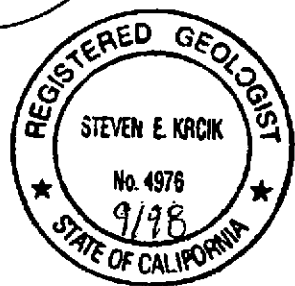
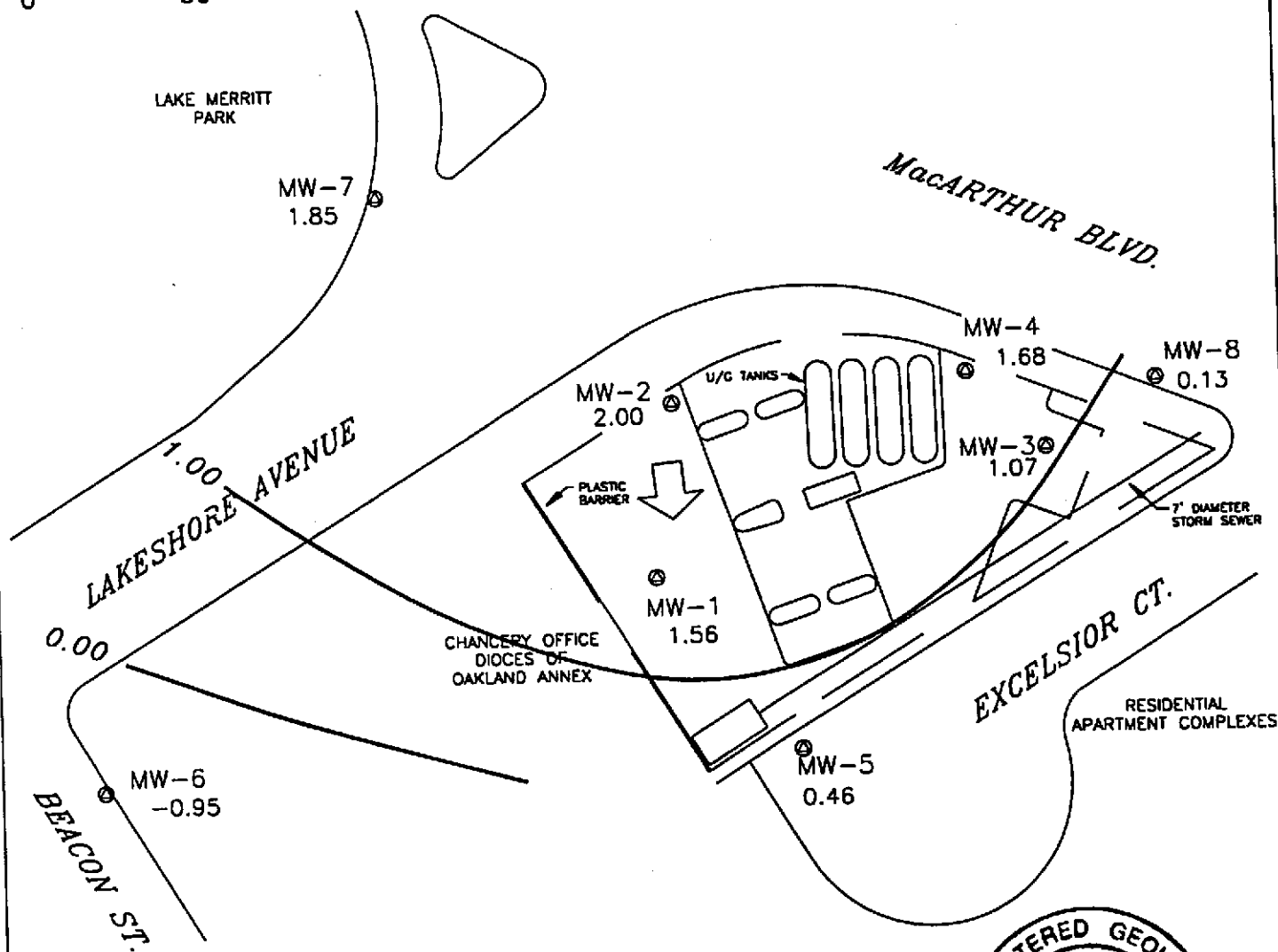


SCALE (ft)



EXPLANATION

- ⊙ MONITORING WELL LOCATION
- 2.00 GROUNDWATER ELEVATION (FT, MSL)
- 1.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ↓ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.01



Base map from Geoconsultants, Inc.

PREPARED BY



Chevron Station 9-0121
3026 Lakeshore Avenue
Oakland, California

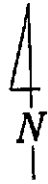
GROUNDWATER ELEVATION CONTOUR MAP,
SEPTEMBER 12, 1997

FIGURE:

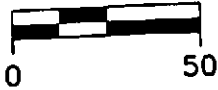
1

PROJECT:

DAC04

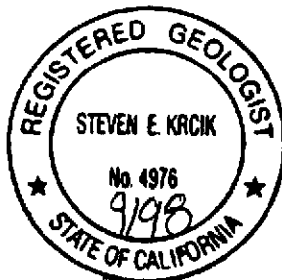
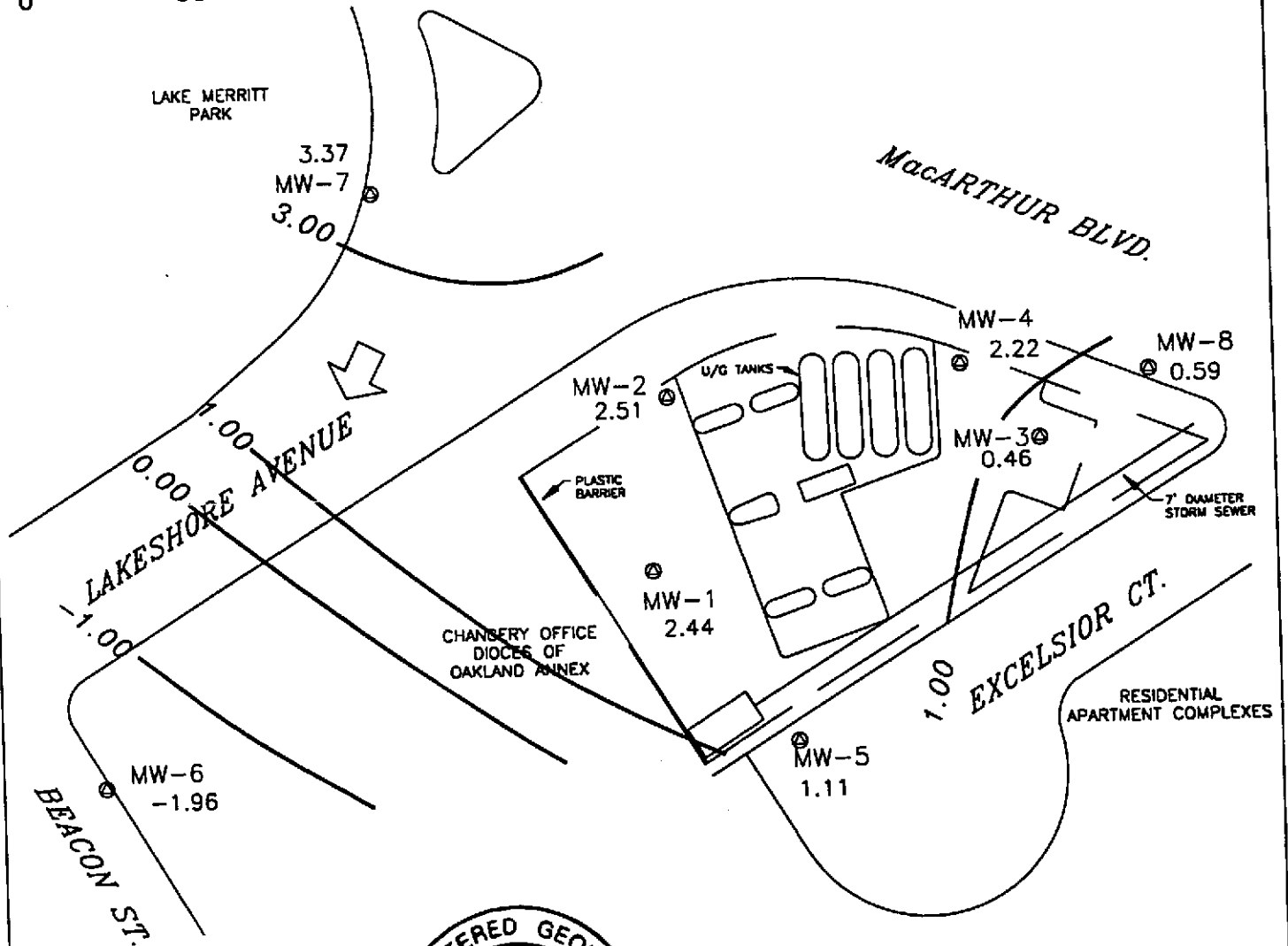


SCALE (ft)



EXPLANATION

- ⊙ MONITORING WELL LOCATION
- 0.59 GROUNDWATER ELEVATION (FT, MSL)
- 1.00 — GROUNDWATER ELEVATION CONTOUR (FT, MSL)
- ⇩ APPROXIMATE GROUNDWATER FLOW DIRECTION;
APPROXIMATE GRADIENT = 0.03



Base map from Geoconsultants, Inc.

PREPARED BY



Chevron Station 9-0121
3026 Lakeshore Avenue
Oakland, California

GROUNDWATER ELEVATION CONTOUR MAP,
DECEMBER 5, 1997

FIGURE:

1

PROJECT:

DAC04

EXPLANATION

● MW-7

MONITORING WELL LOCATION AND WELL NUMBER

3.83

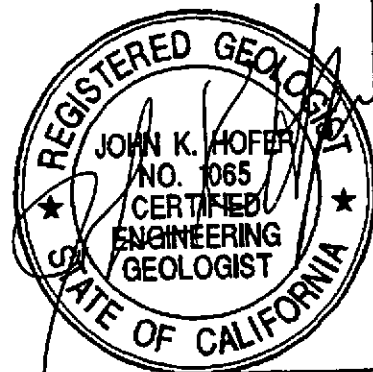
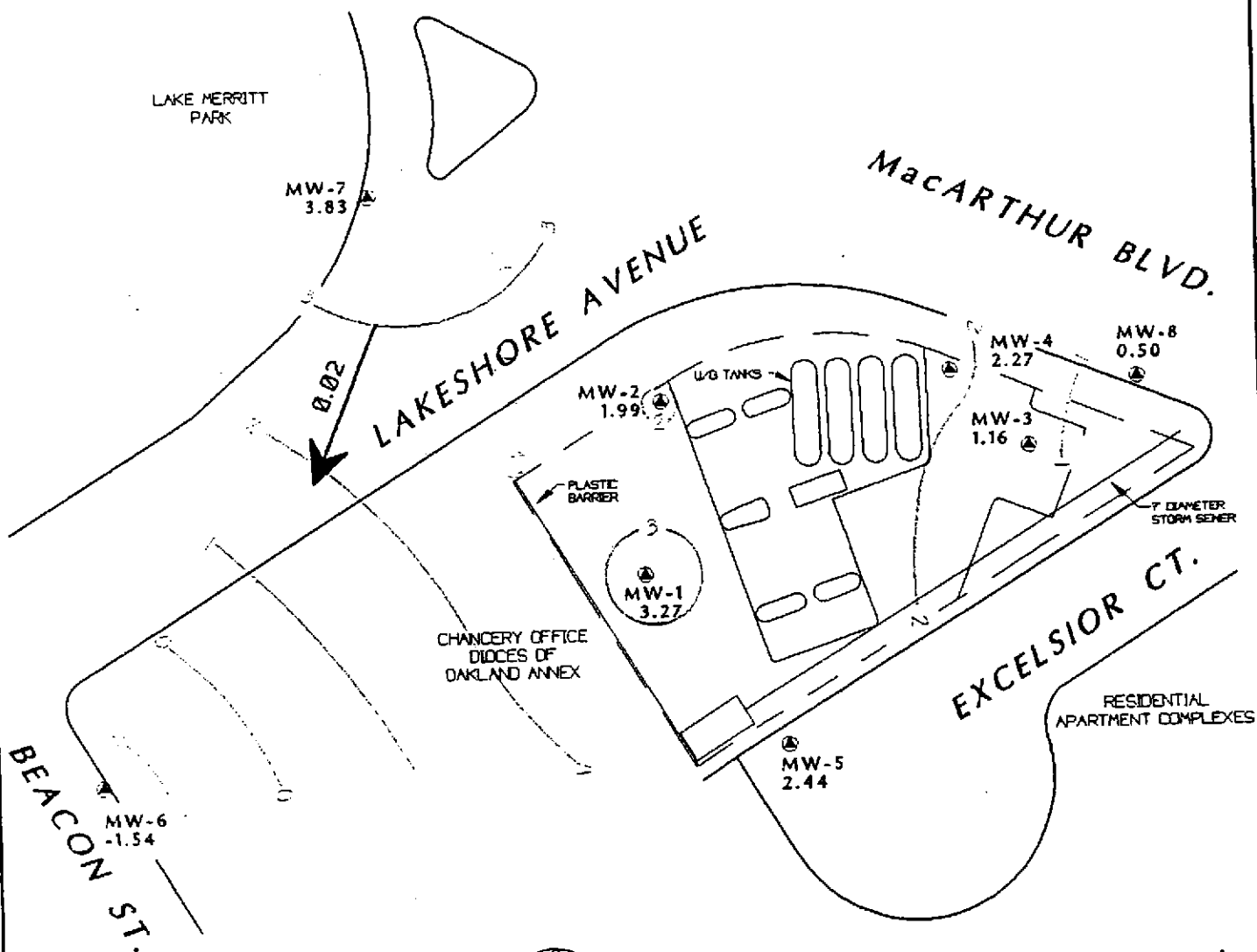
GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

— 2

GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL

0.02 →

APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET



TITLE : GROUND-WATER ELEVATION CONTOUR MAP -
FEBRUARY 28, 1996

LOCATION : CHEVRON SERVICE STATION 9-0121
3026 LAKESHORE AVENUE, OAKLAND, CALIFORNIA



GEOCONSULTANTS, INC
SAN JOSE, CALIFORNIA
Project No. G758-09

EXPLANATION

⊙ MW-7

MONITORING WELL LOCATION AND WELL NUMBER

0.97

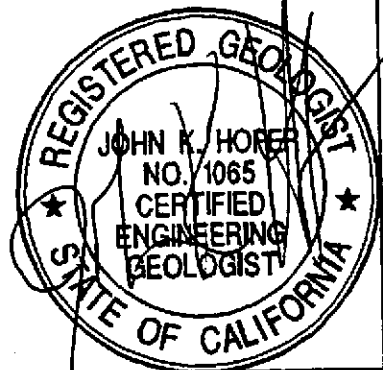
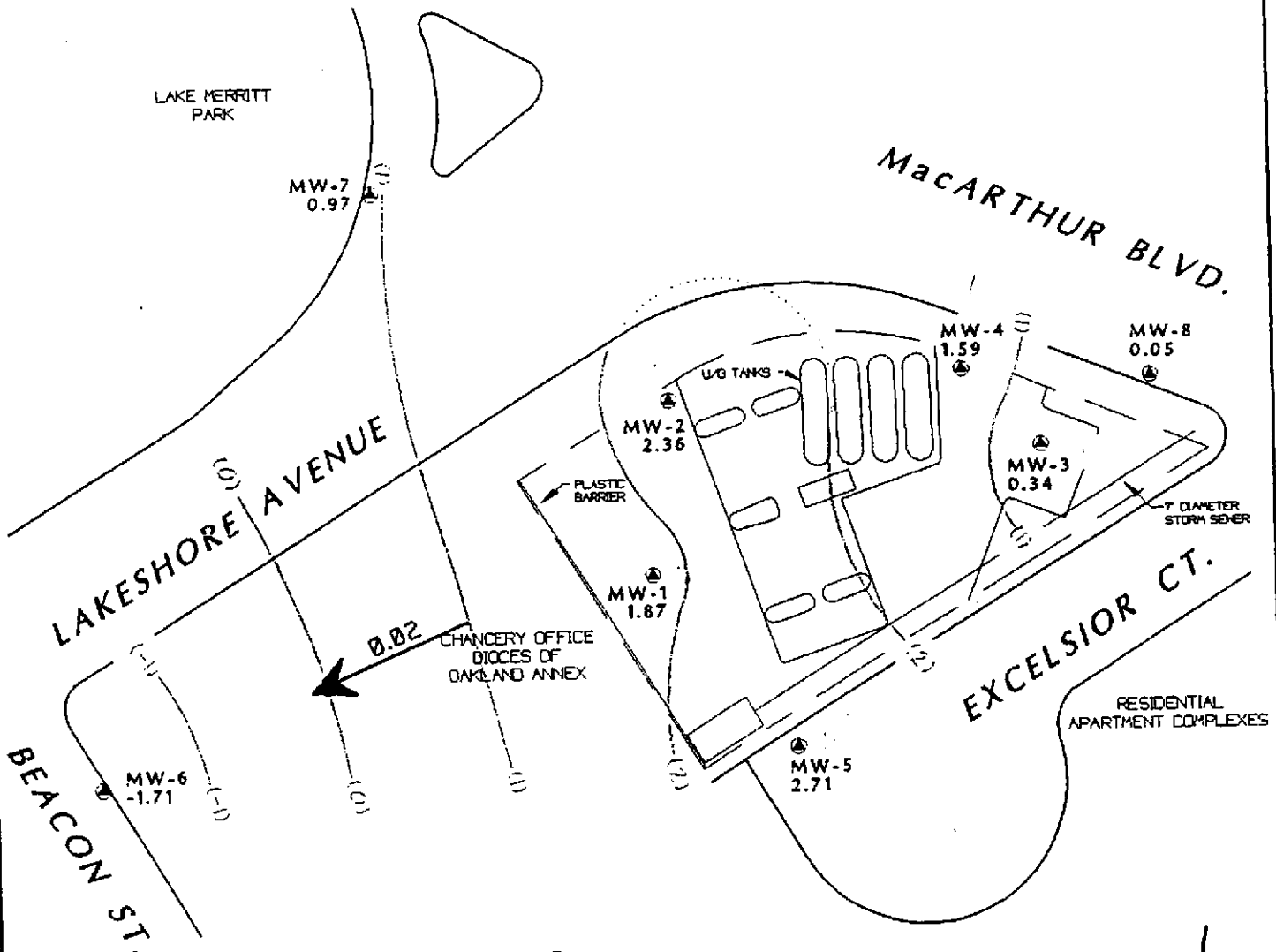
GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

— (1)

GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL

0.02 →

APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET



TITLE : GROUND-WATER ELEVATION CONTOUR MAP -
 JUNE 25, 1996
 LOCATION : CHEVRON SERVICE STATION 9-0121
 3026 LAKESHORE AVENUE, OAKLAND, CALIFORNIA



GEOCONSULTANTS, INC
 SAN JOSE, CALIFORNIA
 Project No. G758-09

EXPLANATION

MW-7

MONITORING WELL LOCATION AND WELL NUMBER

3.08

GROUND-WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL

2

GROUND-WATER ELEVATION CONTOUR IN FEET ABOVE MEAN SEA LEVEL

0.02



APPROXIMATE DIRECTION OF GROUND-WATER FLOW. GRADIENT INDICATED IN FEET / FEET

LAKE MERRITT PARK

MW-7
3.08

MACARTHUR BLVD.

LAKESHORE AVENUE

MW-4
1.42

MW-8
0.49

MW-2
2.22

MW-3
0.41

MW-1
2.23

MW-5
2.74

MW-6
-1.67

BEACON ST.

0.02

CHANCERY OFFICE
DIOCES OF
OAKLAND ANNEX

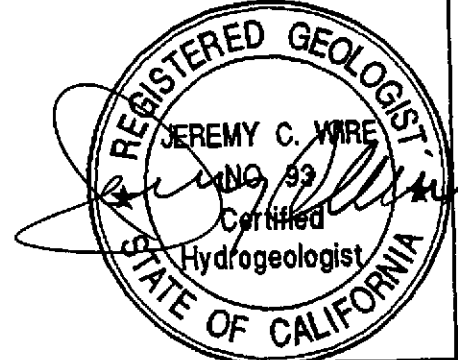
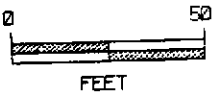
L/D TANKS

PLASTIC BARRIER

7" DIAMETER
STORM SENSER

EXCELSIOR CT.

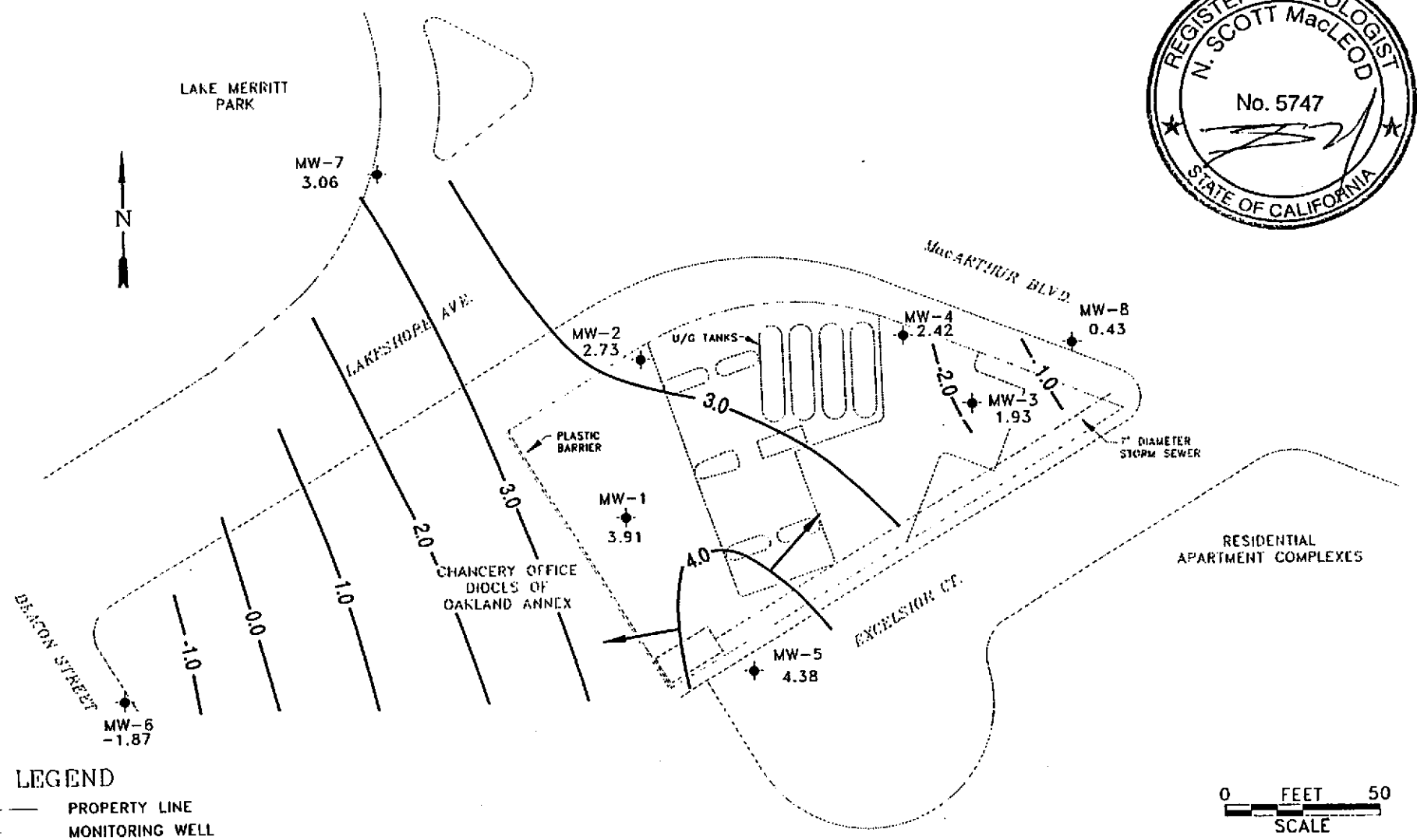
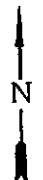
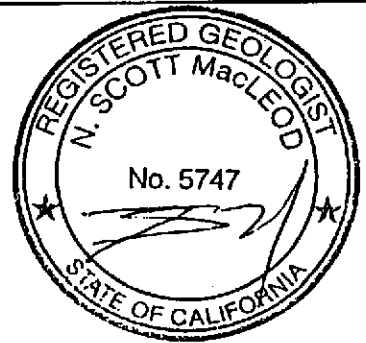
RESIDENTIAL
APARTMENT COMPLEXES



TITLE : GROUND-WATER ELEVATION CONTOUR MAP -
DECEMBER 17, 1996
LOCATION : CHEVRON SERVICE STATION 9-0121
3026 LAKESHORE AVENUE, OAKLAND, CALIFORNIA



GEOCONSULTANTS, INC
SAN JOSE, CALIFORNIA
Project No. 0758-09



LEGEND

- PROPERTY LINE
- MONITORING WELL
- X.XX** POTENTIOMETRIC SURFACE ELEVATION (FT)
- NA** NOT AVAILABLE
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
 1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS RELATIVE TO MEAN SEA LEVEL.



Base map from Groundwater Technology, Inc.



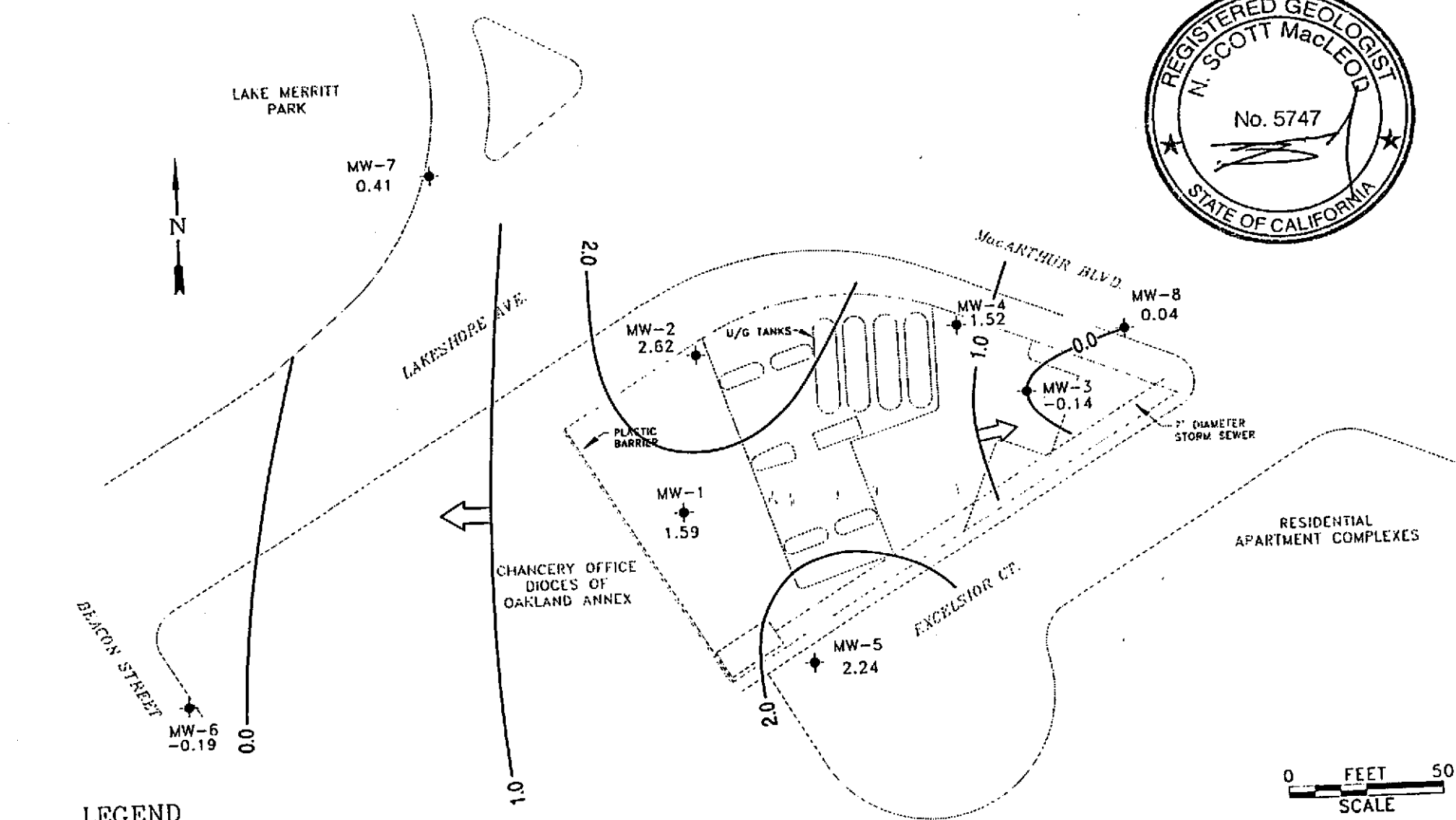
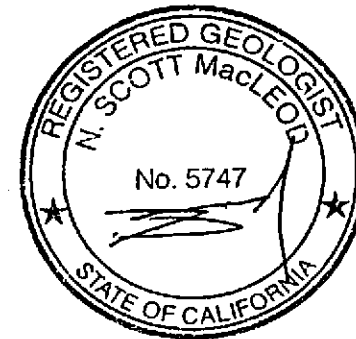
CAMBRIA
 Environmental Technology, Inc.

Chevron Station 9-0121
 3026 Lakeshore Avenue
 Oakland, California

ICHEVRON9-0121\0121-QM(1Q95).DWG

Ground Water Elevation
 March 24, 1995

FIGURE
1



LEGEND

- PROPERTY LINE
- MONITORING WELL
- POTENTIOMETRIC SURFACE ELEVATION (FT)
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
 1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS RELATIVE TO MEAN SEA LEVEL.

Base map from Groundwater Technology, Inc.



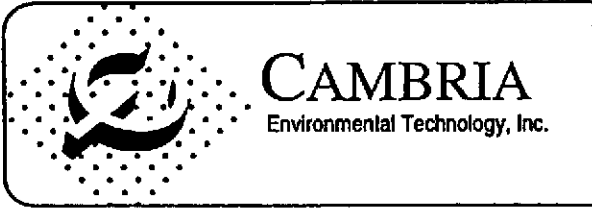
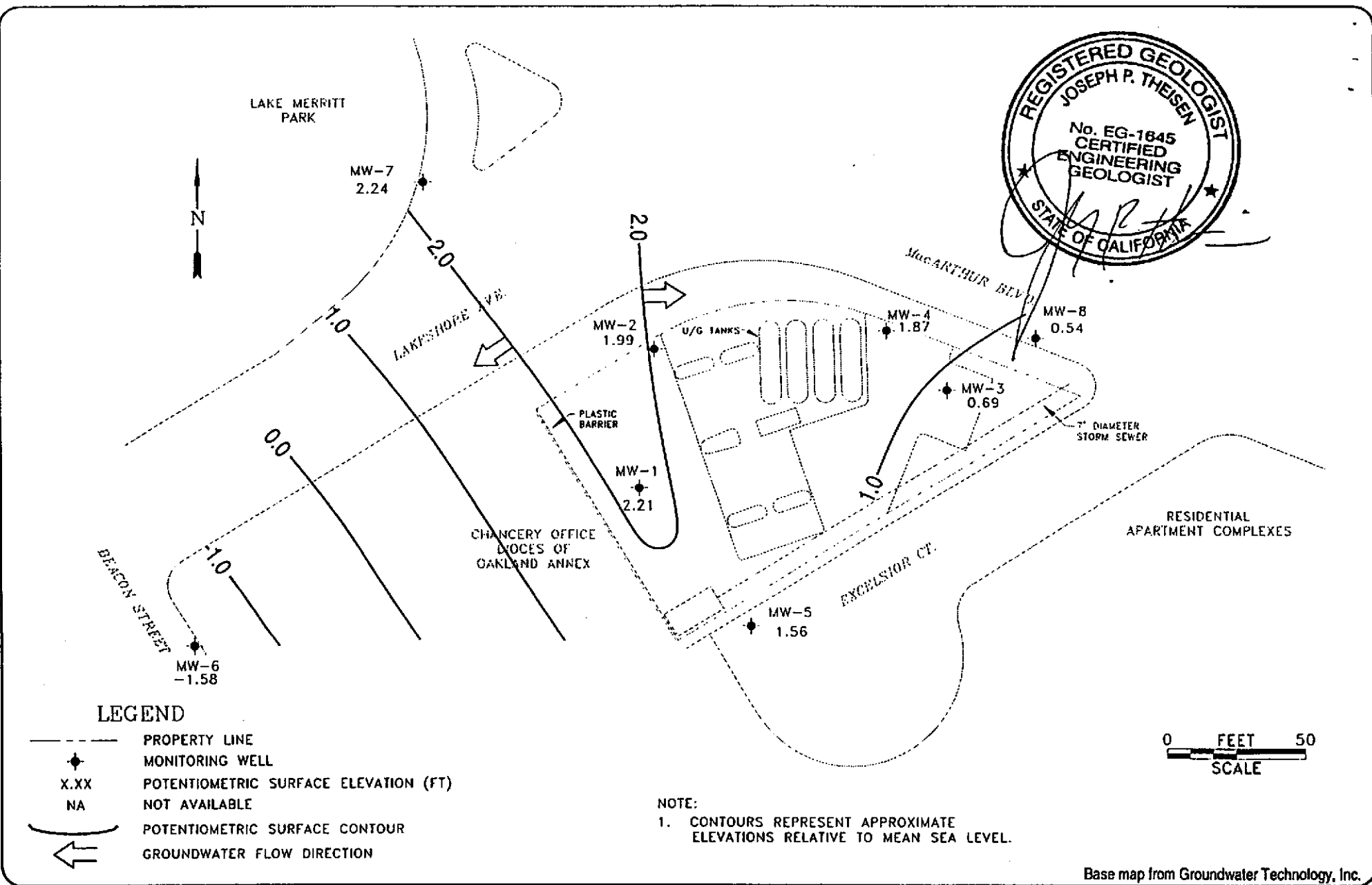
CAMBRIA
 Environmental Technology, Inc.

Chevron Station 9-0121
 3026 Lakeshore Avenue
 Oakland, California

VCHEVROM9-0121\0121-QM.DWG

Ground Water Elevation
 September 28, 1995

FIGURE
1



Chevron Station 9-0121
3026 Lakeshore Avenue
Oakland, California

VCHEVRON9-0121\0121-QM.DWG

Ground Water Elevation
December 19, 1995

FIGURE
1

LAKE MERRITT
PARK



MW-07
2.64

LAKESHORE AVE.

MW-02
2.60

U/G TANKS

MW-04
2.36

MW-08
0.28

PLASTIC BARRIER

MW-01
2.21

MW-03
0.64

7" DIAMETER
STORM SEWER

CHANCERY OFFICE
DIOCES OF
OAKLAND ANNEX

RESIDENTIAL
APARTMENT COMPLEXES






BEACON STREET

MW-06
-0.81

EXCELSIOR CT.

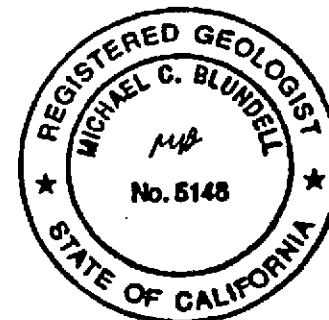
MW-05
2.80



LEGEND

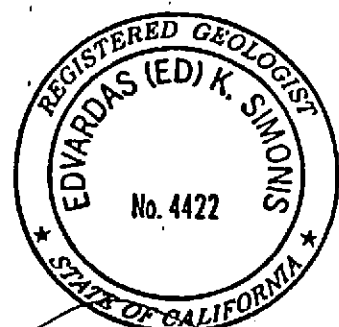
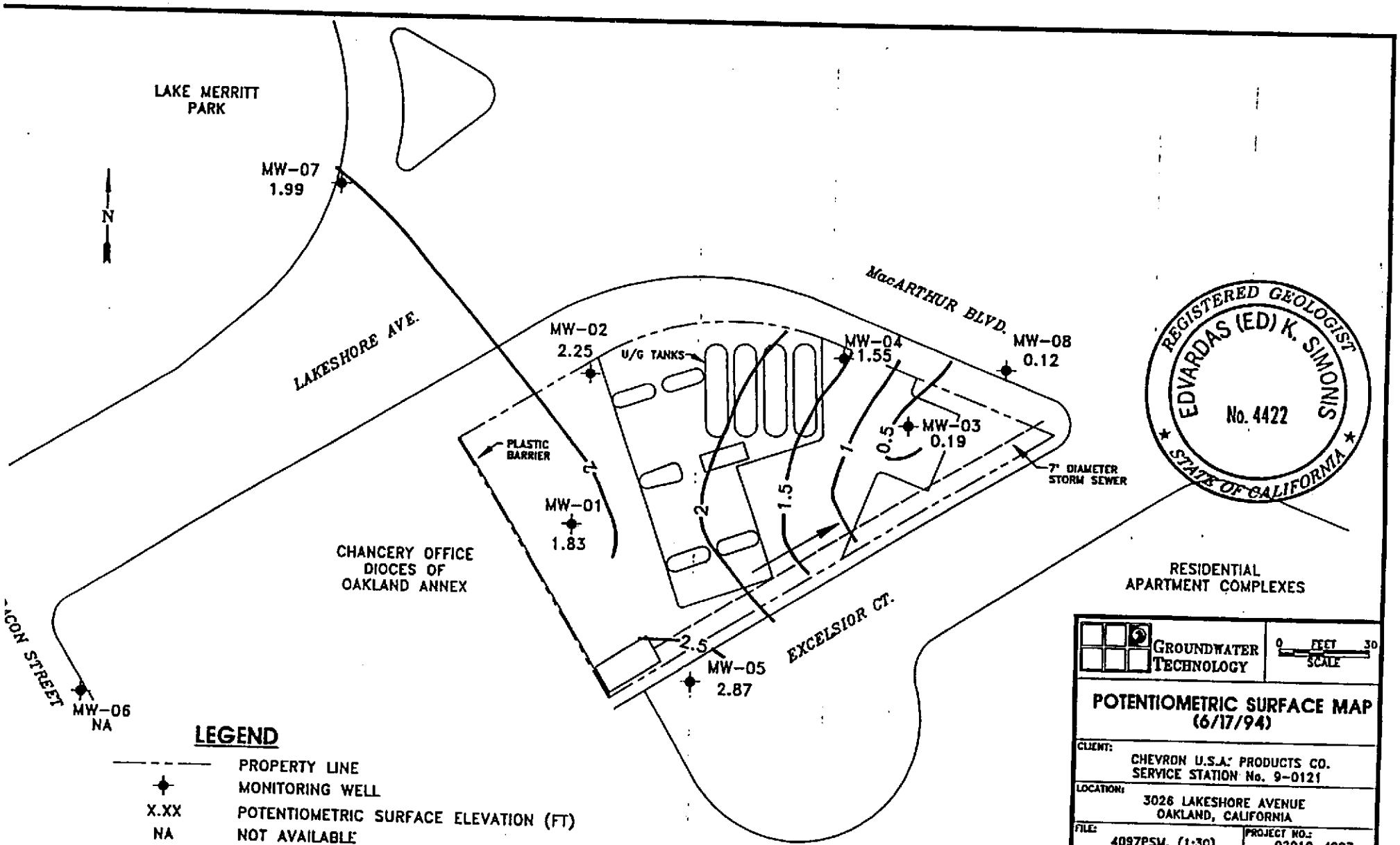
-  PROPERTY LINE
-  MONITORING WELL
-  POTENTIOMETRIC SURFACE ELEVATION (FT)
-  POTENTIOMETRIC SURFACE CONTOUR
-  GROUNDWATER FLOW DIRECTION

NOTE:

1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS RELATIVE TO MEAN SEA LEVEL.



| | | | |
|---------------------------------------------------------------------------------------|--------|---------------------------------------------------------------------------------------|---------|
|  | |  | |
| <p>(3/7/94) POTENTIOMETRIC SURFACE MAP</p> | | | |
| <p>CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0121</p> | | | |
| <p>LOCATION: 3028 LAKESHORE AVENUE OAKLAND, CALIFORNIA</p> | | | |
| <p>FILE: 4097PSM, (1:30)</p> | | <p>PROJECT NO.: 02010-4097</p> | |
| <p>REV.:</p> | | | |
| DES.: | DET.: | DATE: | FIGURE: |
| SS | TW | 4/5/94 | 1 |
| PM: | PE/RO: | | |
| Law | | MB | |

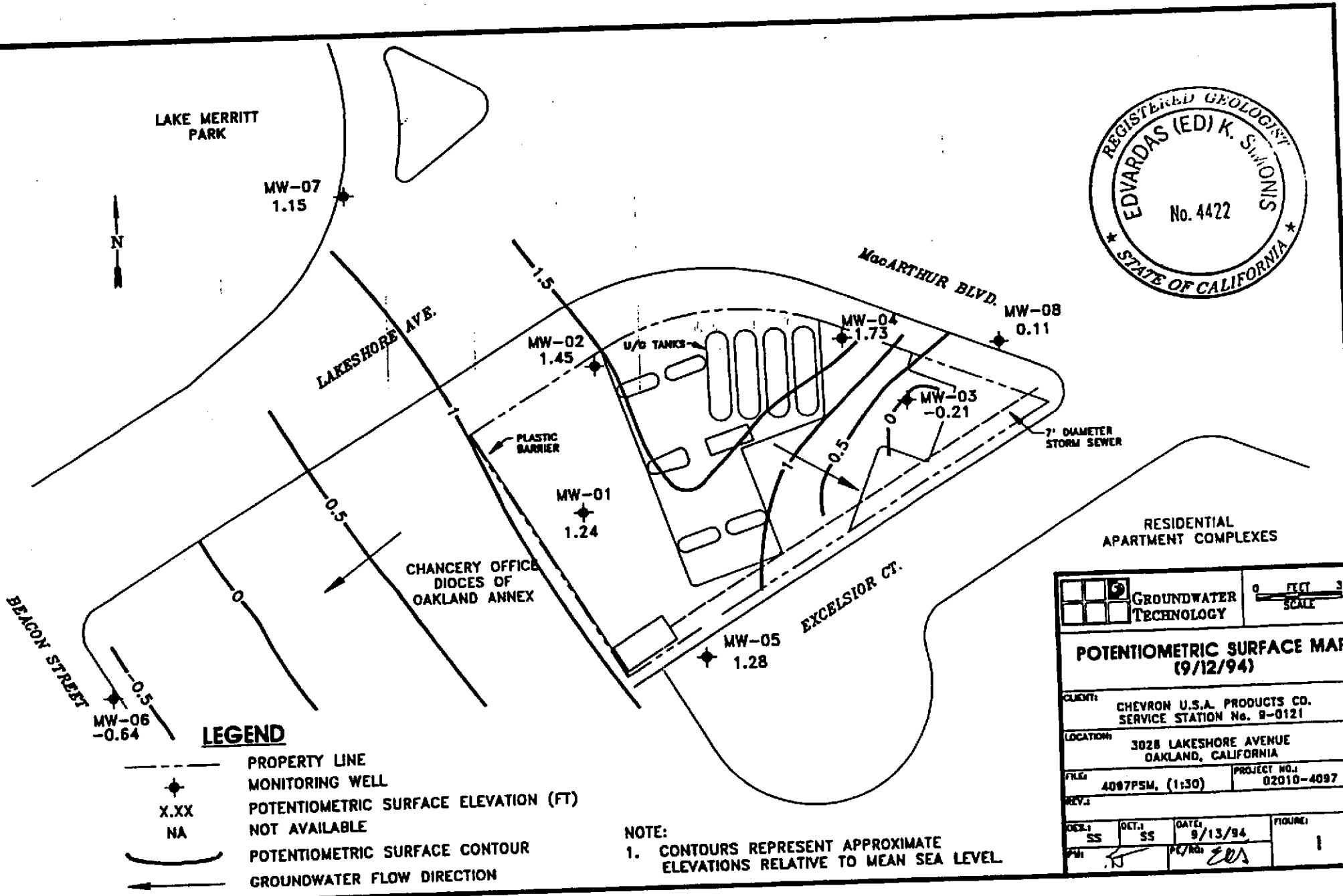
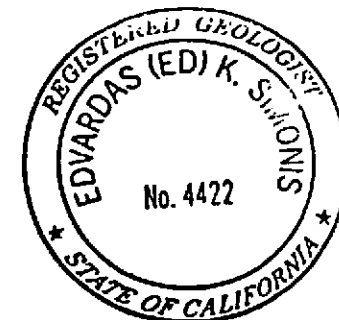


LEGEND

- PROPERTY LINE
- ◆ MONITORING WELL
- X.XX POTENTIOMETRIC SURFACE ELEVATION (FT)
- NA NOT AVAILABLE
- () POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
 1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS RELATIVE TO MEAN SEA LEVEL.

| | | | |
|-----------------------------------------------------------------------------|------------------------------|-----------------------------------|---------------------|
| | | 0 FEET 30 SCALE | |
| POTENTIOMETRIC SURFACE MAP (6/17/94) | | | |
| CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0121 | | | |
| LOCATION: 3026 LAKESHORE AVENUE OAKLAND, CALIFORNIA | | | |
| FILE: 4097PSM, (1:30) | | PROJECT NO.: 02010-4097 | |
| REV.: | | | |
| DES.: SS | DET.: SS | DATE: 6/24/94 | FIGURE: 1 |
| PM: [Signature] | PC/RO: [Signature] | | |



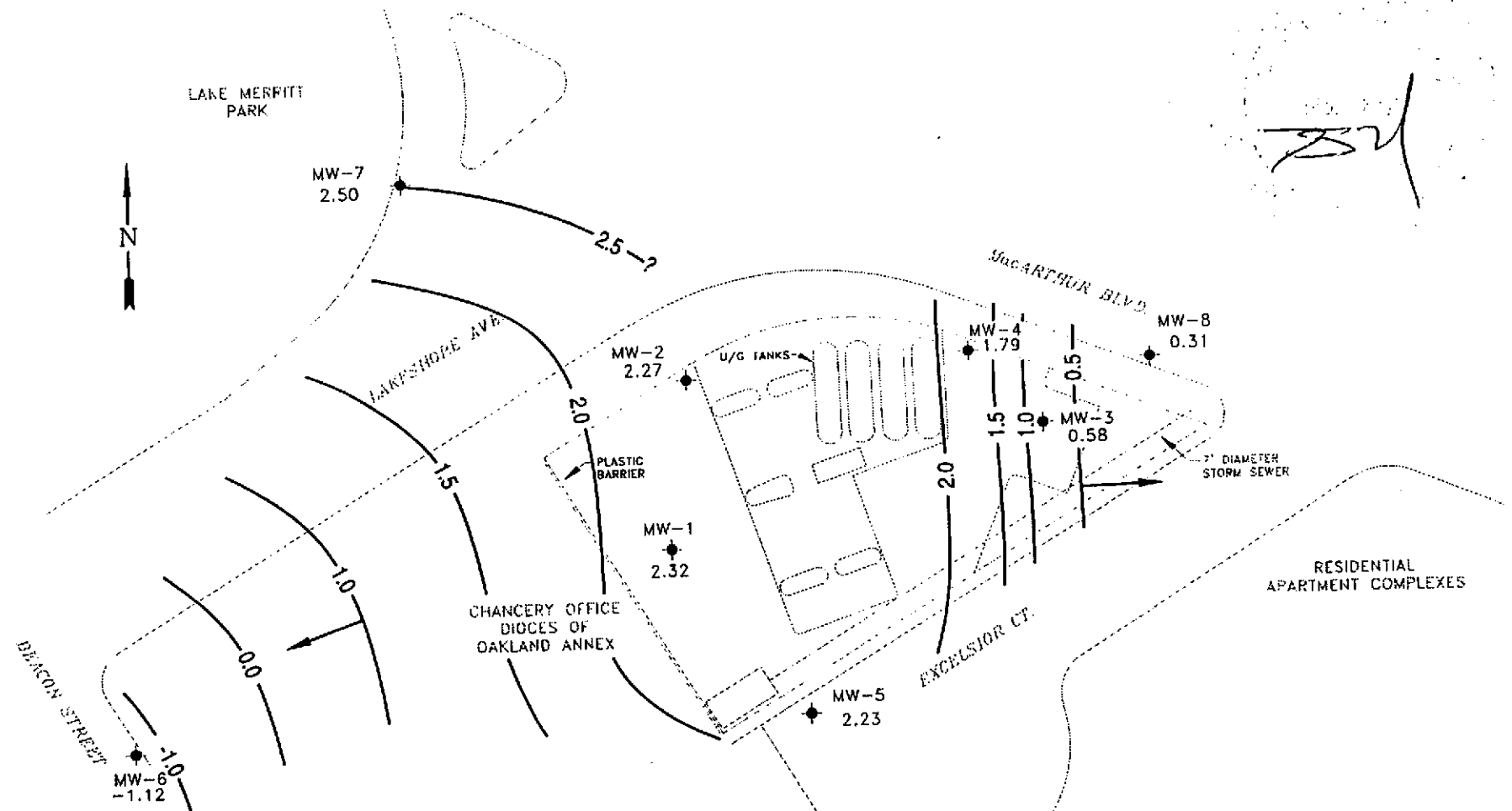
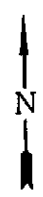
LEGEND

- PROPERTY LINE
- ◆ MONITORING WELL
- X.XX POTENTIOMETRIC SURFACE ELEVATION (FT)
- NA NOT AVAILABLE
- () POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
 1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS RELATIVE TO MEAN SEA LEVEL.

| | | | |
|--------------------------------------------------------------------------|-----------------|--------------------------------|------------------|
| | | 0 FEET SCALE 30 | |
| POTENTIOMETRIC SURFACE MAP (9/12/94) | | | |
| CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0121 | | | |
| LOCATION: 3028 LAKESHORE AVENUE OAKLAND, CALIFORNIA | | | |
| FILE: 4087P5M, (1:30) | | PROJECT NO.: 02010-4097 | |
| REV.: | | | |
| DESL: SS | DET.: SS | DATE: 9/13/94 | FIGURE: 1 |
| PL/RS: <i>ES</i> | | | |

NOV 30 1994



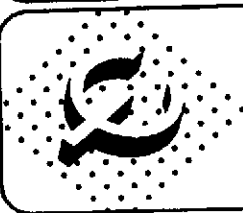
LEGEND

- PROPERTY LINE
- MONITORING WELL
- X.XX POTENTIOMETRIC SURFACE ELEVATION (FT)
- NA NOT AVAILABLE
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

NOTE:
 1. CONTOURS REPRESENT APPROXIMATE ELEVATIONS RELATIVE TO MEAN SEA LEVEL.



Base map from Groundwater Technology, Inc.



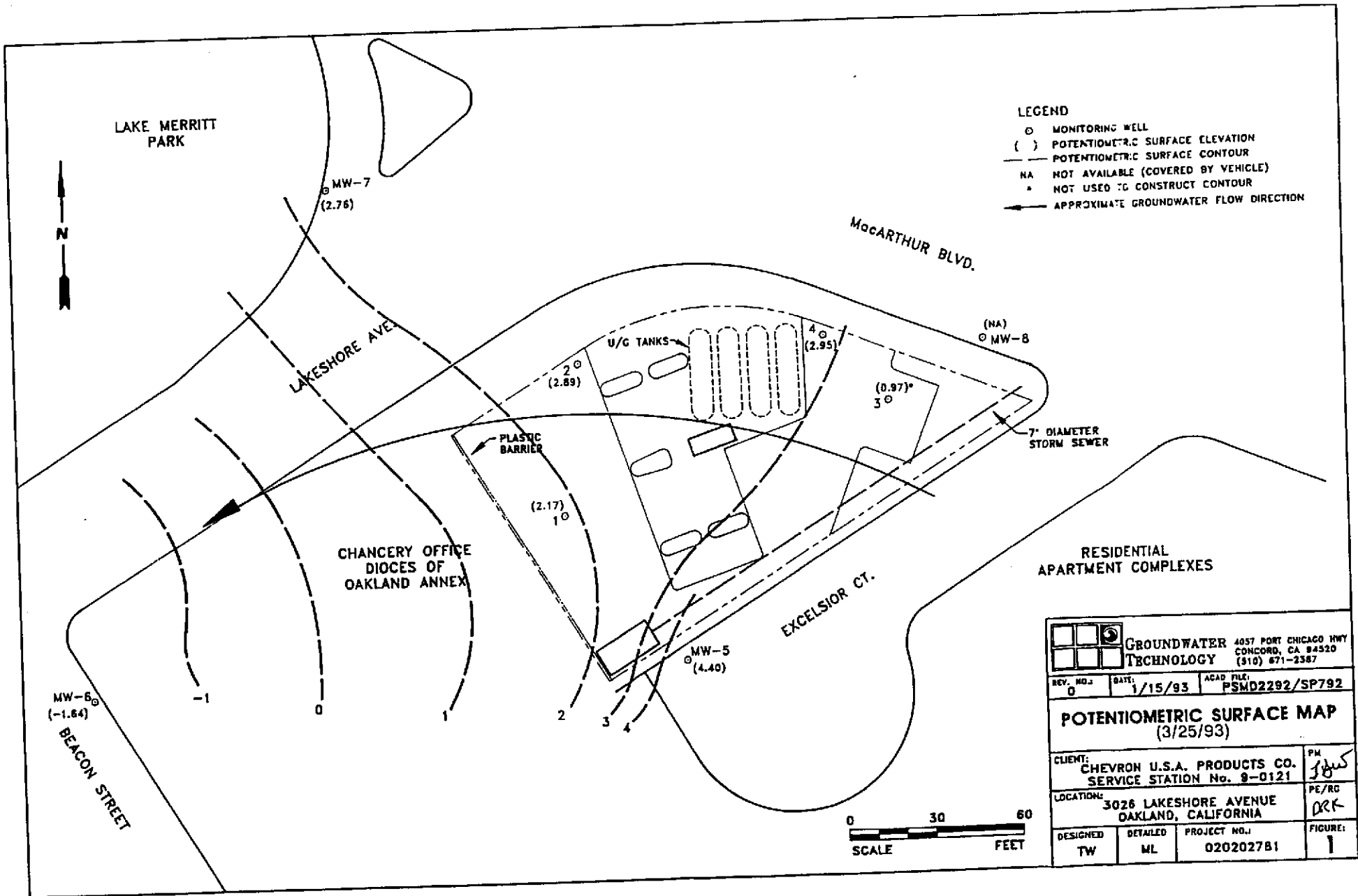
CAMBRIA
 Environmental Technology, Inc.

Chevron Station 9-0121
 3026 Lakeshore Avenue
 Oakland, California

\\CHEVRON\9-0121\0121-QM(4Q94).DWG

Ground Water Elevation
 November 30, 1994

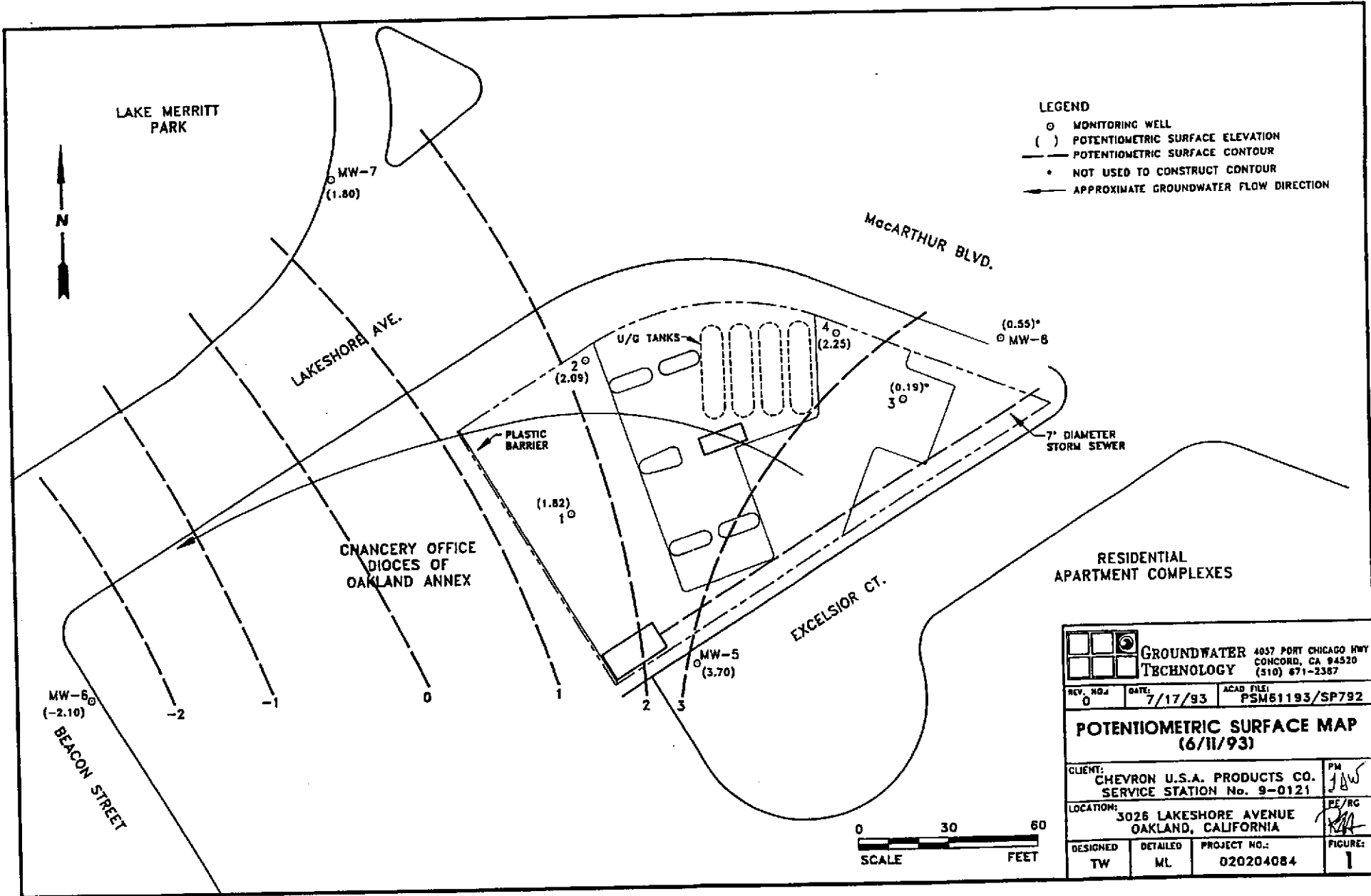
FIGURE
1



LEGEND

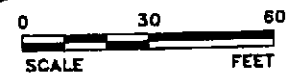
- MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION
- - - POTENTIOMETRIC SURFACE CONTOUR
- NA NOT AVAILABLE (COVERED BY VEHICLE)
- * NOT USED TO CONSTRUCT CONTOUR
- APPROXIMATE GROUNDWATER FLOW DIRECTION

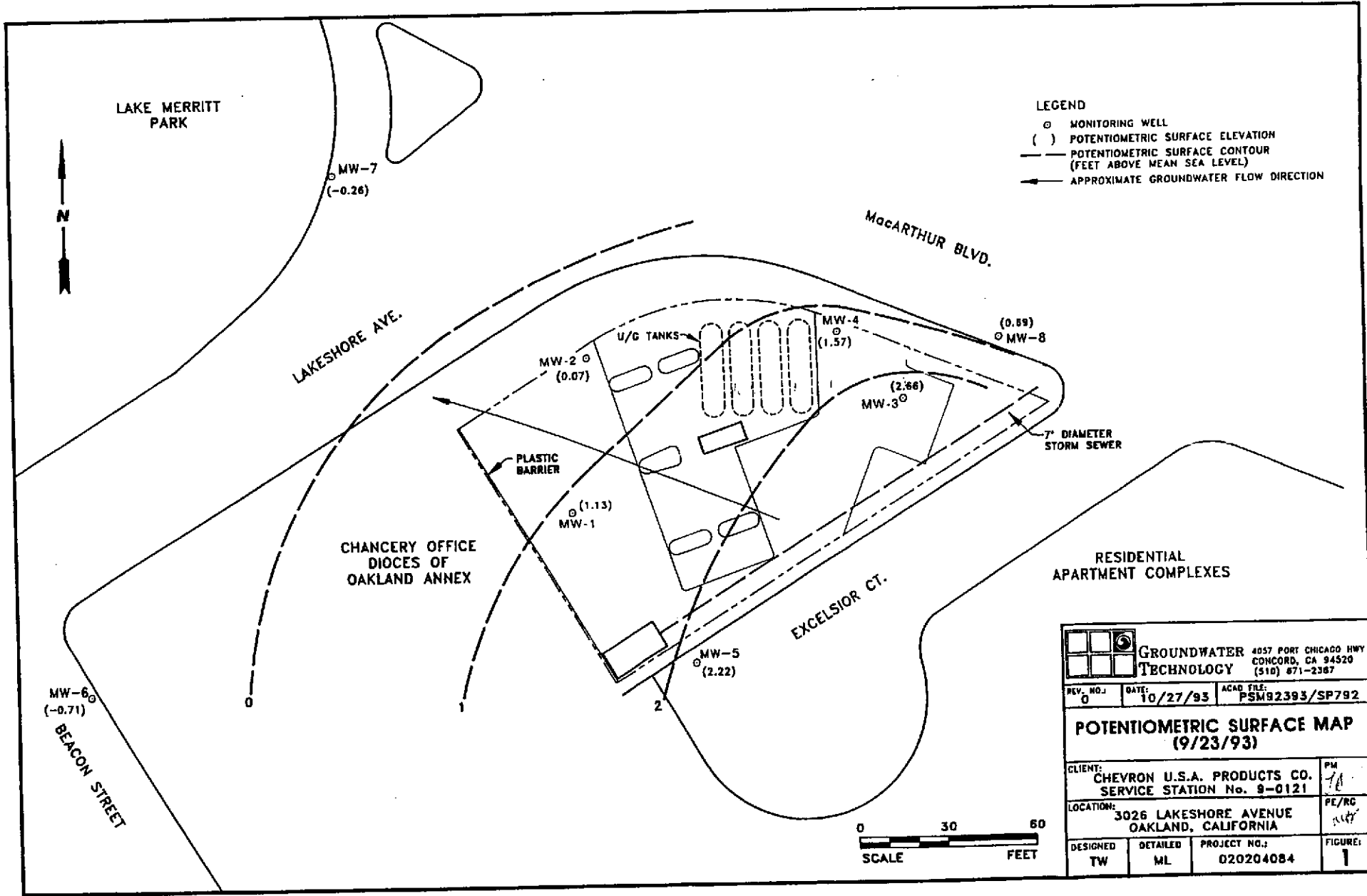
| | | | |
|------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------|
| | | GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 871-2387 | |
| REV. NO.: | 0 | DATE: | 1/15/93 |
| ACAD. FILE: | PSMD2292/SP792 | | |
| POTENTIOMETRIC SURFACE MAP (3/25/93) | | | |
| CLIENT: | CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0121 | | PM <i>JLB</i> |
| LOCATION: | 3026 LAKESHORE AVENUE OAKLAND, CALIFORNIA | | PE/RG <i>RRK</i> |
| DESIGNED | TW | DETAILED | ML |
| PROJECT NO.: | 020202781 | | FIGURE: 1 |



- LEGEND**
- MONITORING WELL
 - () POTENTIOMETRIC SURFACE ELEVATION
 - - - POTENTIOMETRIC SURFACE CONTOUR
 - NOT USED TO CONSTRUCT CONTOUR
 - APPROXIMATE GROUNDWATER FLOW DIRECTION

| | | | |
|-------------------------------------------------------------------|-----------|--------------------------------------------------------------|---------------------|
| | | 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 871-2387 | |
| REV. NO.: | DATE: | ACAD. FILE: | |
| 0 | 7/17/93 | PSM61193/SP792 | |
| POTENTIOMETRIC SURFACE MAP (6/11/93) | | | |
| CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0121 | | | PM <i>JAW</i> |
| LOCATION: 3026 LAKESHORE AVENUE OAKLAND, CALIFORNIA | | | PE/RC <i>RJA</i> |
| DESIGNED: | DETAILED: | PROJECT NO.: | FIGURE: |
| TW | ML | 020204084 | 1 |

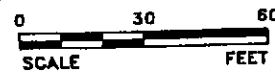


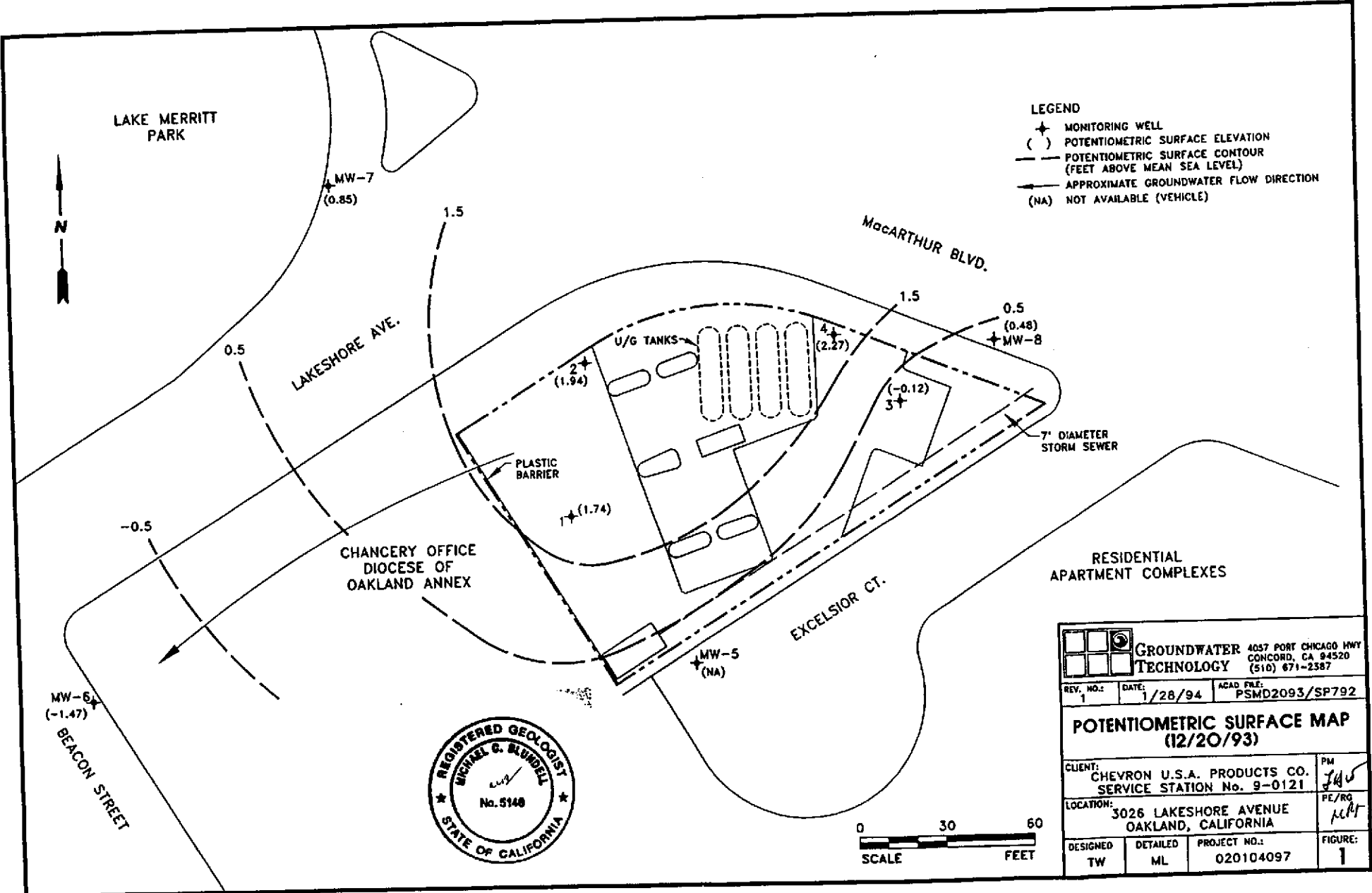


LEGEND

- MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION
- - - POTENTIOMETRIC SURFACE CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

| | | | | | |
|-----------------------------------|-----------------------------------------------------------|-------------------------------|----------|--------------------------------------------------------------|----------------|
| | | GROUNDWATER TECHNOLOGY | | 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 871-2387 | |
| REV. NO.: | 0 | DATE: | 10/27/93 | ACAD. FILE: | PSM82393/SP792 |
| POTENTIOMETRIC SURFACE MAP | | | | | |
| (9/23/93) | | | | | |
| CLIENT: | CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0121 | | | PM <i>[Signature]</i> | |
| LOCATION: | 3026 LAKESHORE AVENUE OAKLAND, CALIFORNIA | | | PE/RC <i>[Signature]</i> | |
| DESIGNED: | TW | DETAILED: | ML | PROJECT NO.: | 020204084 |
| | | | | FIGURE: | 1 |

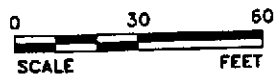


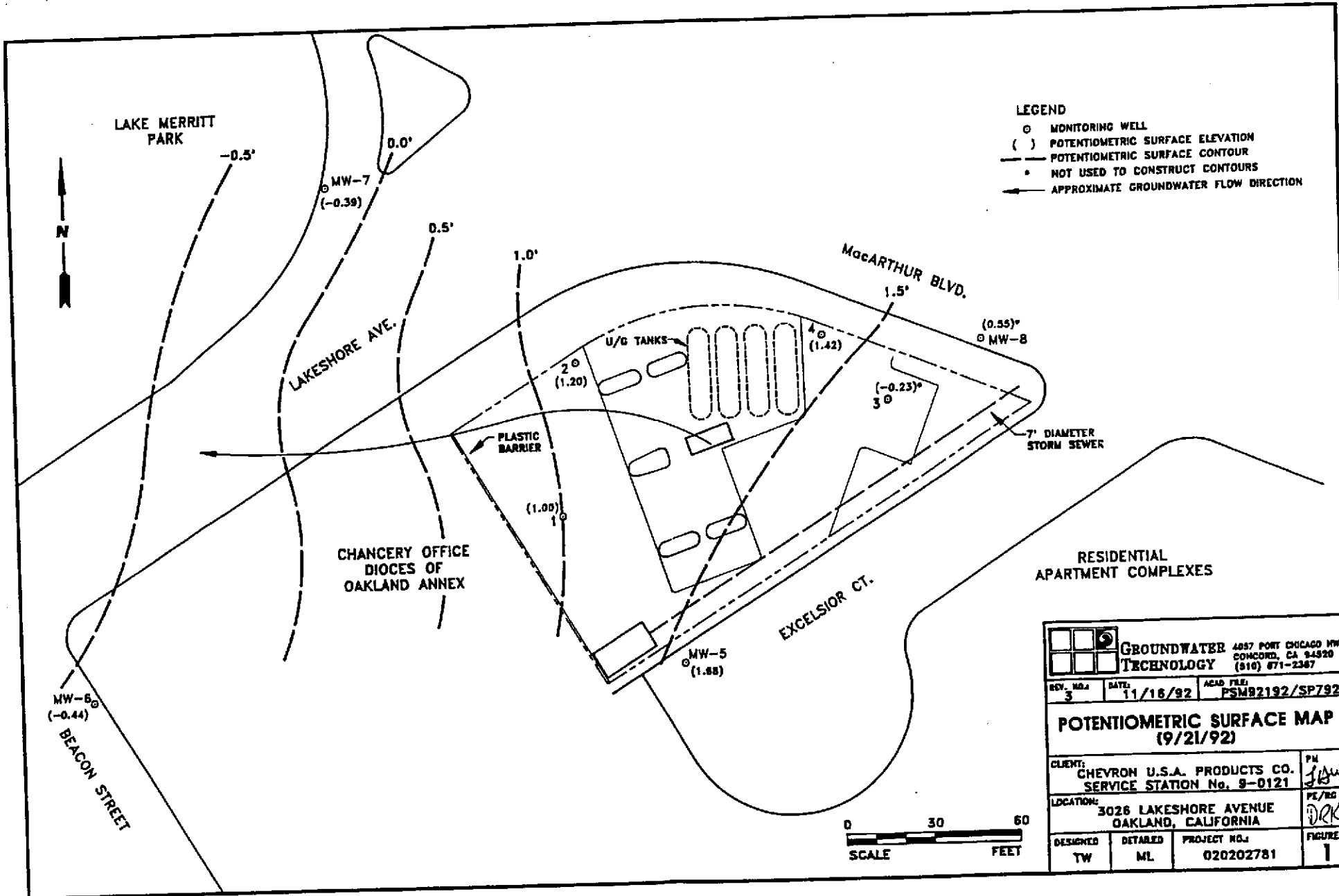


LEGEND

- ✦ MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION
- - - POTENTIOMETRIC SURFACE CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- (NA) NOT AVAILABLE (VEHICLE)

| | | | |
|----------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------|-----------------------------|
| | | GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387 | |
| REV. NO.: | DATE: | ACAD. FILE: | |
| 1 | 1/28/94 | PSMD2093/SP792 | |
| POTENTIOMETRIC SURFACE MAP (12/20/93) | | | |
| CLIENT: CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0121 | | | PM <i>[Signature]</i> |
| LOCATION: 3026 LAKESHORE AVENUE OAKLAND, CALIFORNIA | | | PE/RG <i>[Signature]</i> |
| DESIGNED | DETAILED | PROJECT NO.: | FIGURE: |
| TW | ML | 020104097 | 1 |

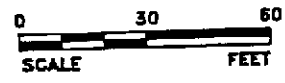


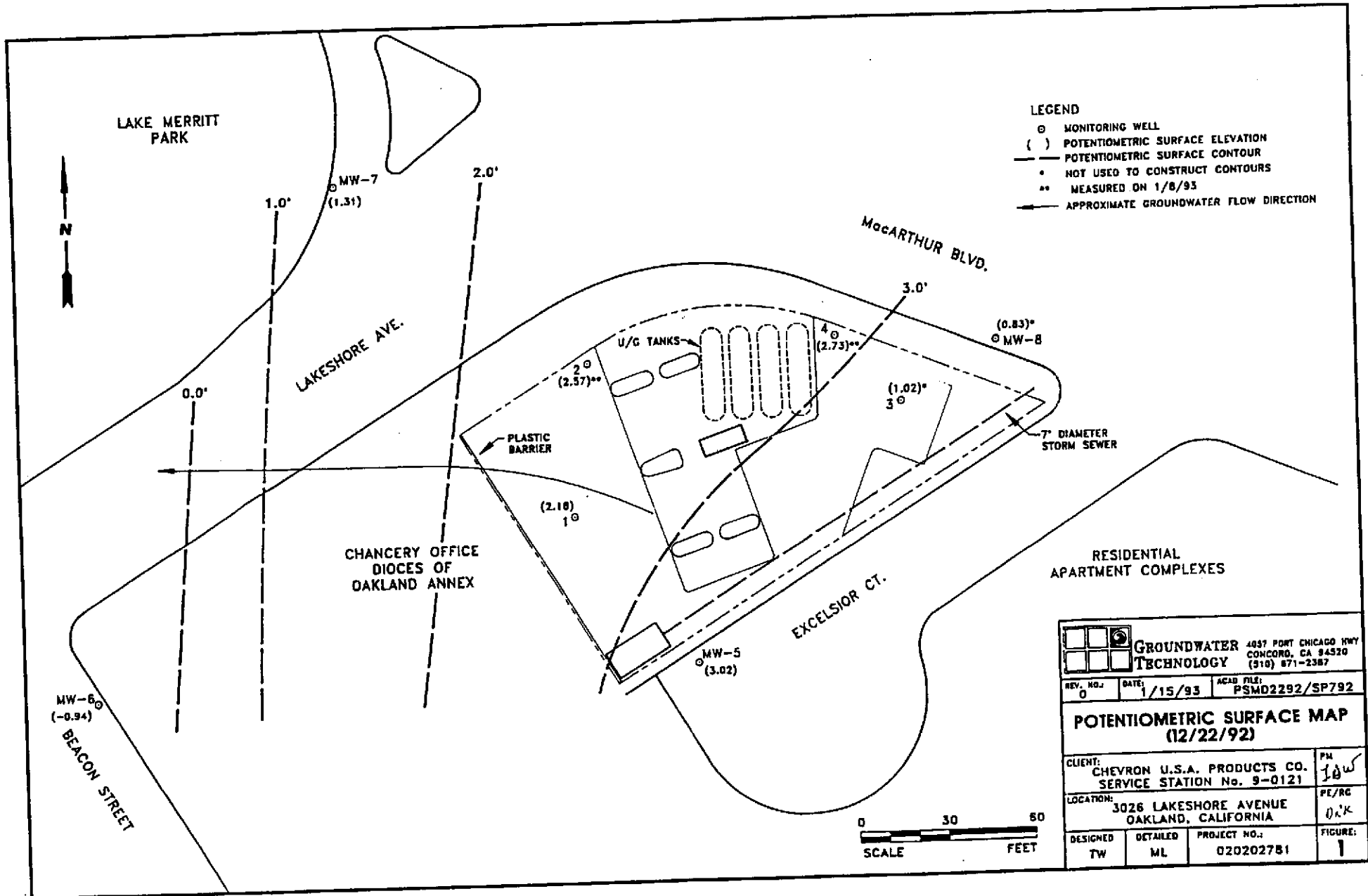


LEGEND

- MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION
- - - POTENTIOMETRIC SURFACE CONTOUR
- NOT USED TO CONSTRUCT CONTOURS
- APPROXIMATE GROUNDWATER FLOW DIRECTION

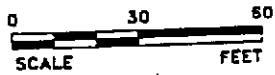
| | | | |
|-----------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------|---------|
| | | GROUNDWATER TECHNOLOGY 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 871-2387 | |
| REV. NO.: | DATE: | ACAD. FILE: | PM: |
| 3 | 11/16/92 | PSM92192/SP792 | Jaw |
| POTENTIOMETRIC SURFACE MAP | | | |
| (9/21/92) | | | |
| CLIENT: | | | PE/REG: |
| CHEVRON U.S.A. PRODUCTS CO. SERVICE STATION No. 9-0121 | | | DRK |
| LOCATION: | | | |
| 3026 LAKESHORE AVENUE OAKLAND, CALIFORNIA | | | |
| DESIGNED: | DETAILED: | PROJECT NO.: | FIGURE: |
| TW | ML | 020202781 | 1 |



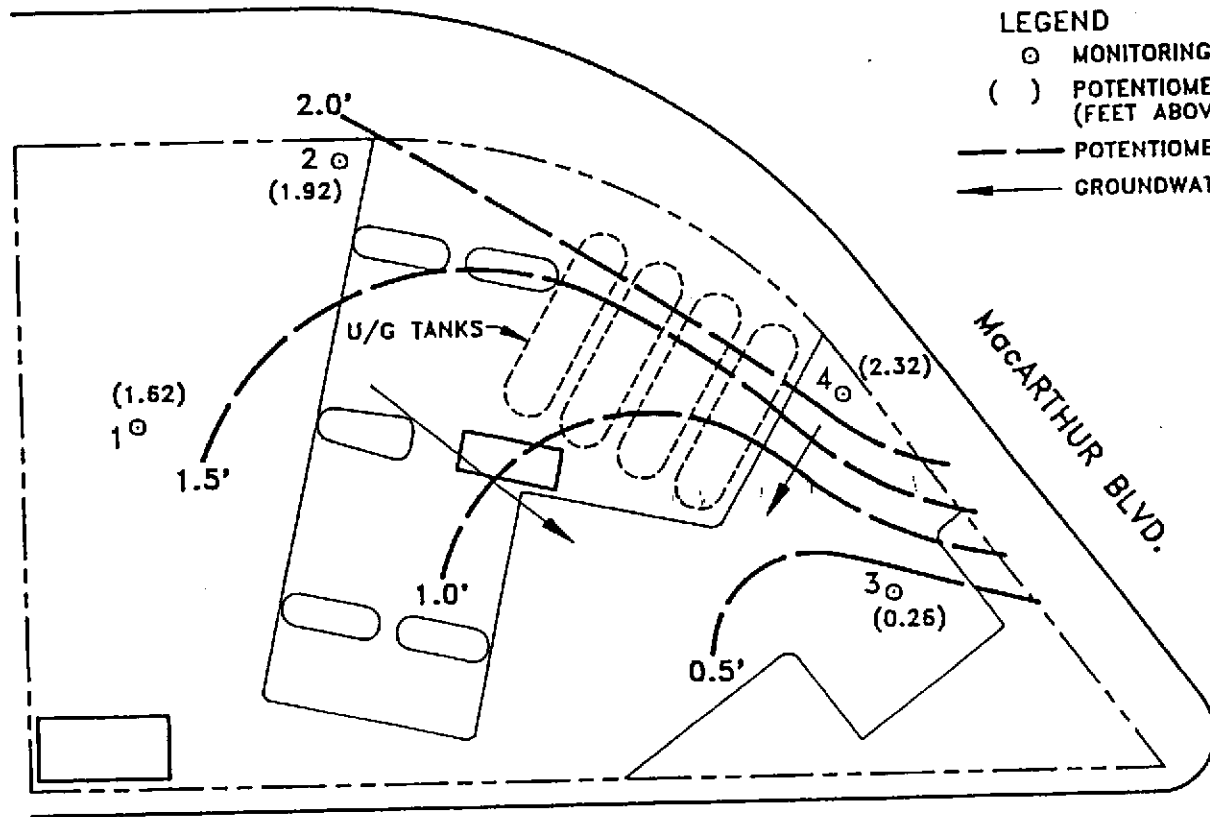


- LEGEND**
- MONITORING WELL
 - () POTENTIOMETRIC SURFACE ELEVATION
 - POTENTIOMETRIC SURFACE CONTOUR
 - NOT USED TO CONSTRUCT CONTOURS
 - ** MEASURED ON 1/8/93
 - APPROXIMATE GROUNDWATER FLOW DIRECTION

| | | | |
|-----------------------------------|-----------------------------|-----------------------------------------------------------------------------------------------|--------------------|
| | | GROUNDWATER TECHNOLOGY 4037 PORT CHICAGO HWY CONCORD, CA 94520 (916) 871-2387 | |
| REV. NO.: | DATE: | ACAD FILE: | |
| 0 | 1/15/93 | PSMD2292/SP792 | |
| POTENTIOMETRIC SURFACE MAP | | | |
| (12/22/92) | | | |
| CLIENT: | CHEVRON U.S.A. PRODUCTS CO. | | PM <i>low</i> |
| | SERVICE STATION No. 9-0121 | | |
| LOCATION: | 3026 LAKESHORE AVENUE | | PE/RC <i>OK</i> |
| | OAKLAND, CALIFORNIA | | |
| DESIGNED | DETAILED | PROJECT NO.: | FIGURE: |
| TW | ML | 020202781 | 1 |



LAKESHORE AVE.




LEGEND

- MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- - - POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

EXCELSIOR CT.

MacARTHUR BLVD.

 **GROUNDWATER TECHNOLOGY** 4057 PORT CHICAGO HWY
CONCORD, CA 94520
(510) 671-2387

POTENTIOMETRIC SURFACE MAP
(8/20/91)

CLIENT: **CHEVRON U.S.A. INC.**
SERVICE STATION #9-0121

LOCATION: **3026 LAKESHORE AVENUE**
OAKLAND, CALIFORNIA

REV. NO.: **0** DATE: **11/14/91**

PM: *SAH*

PE/RG: *DRK*

DESIGNED: **FH**

DETAILED: **ML**

ACAD FILE: **PSM82091/SP1191**

PROJECT NO.: **020301500**

FIGURE: **1**



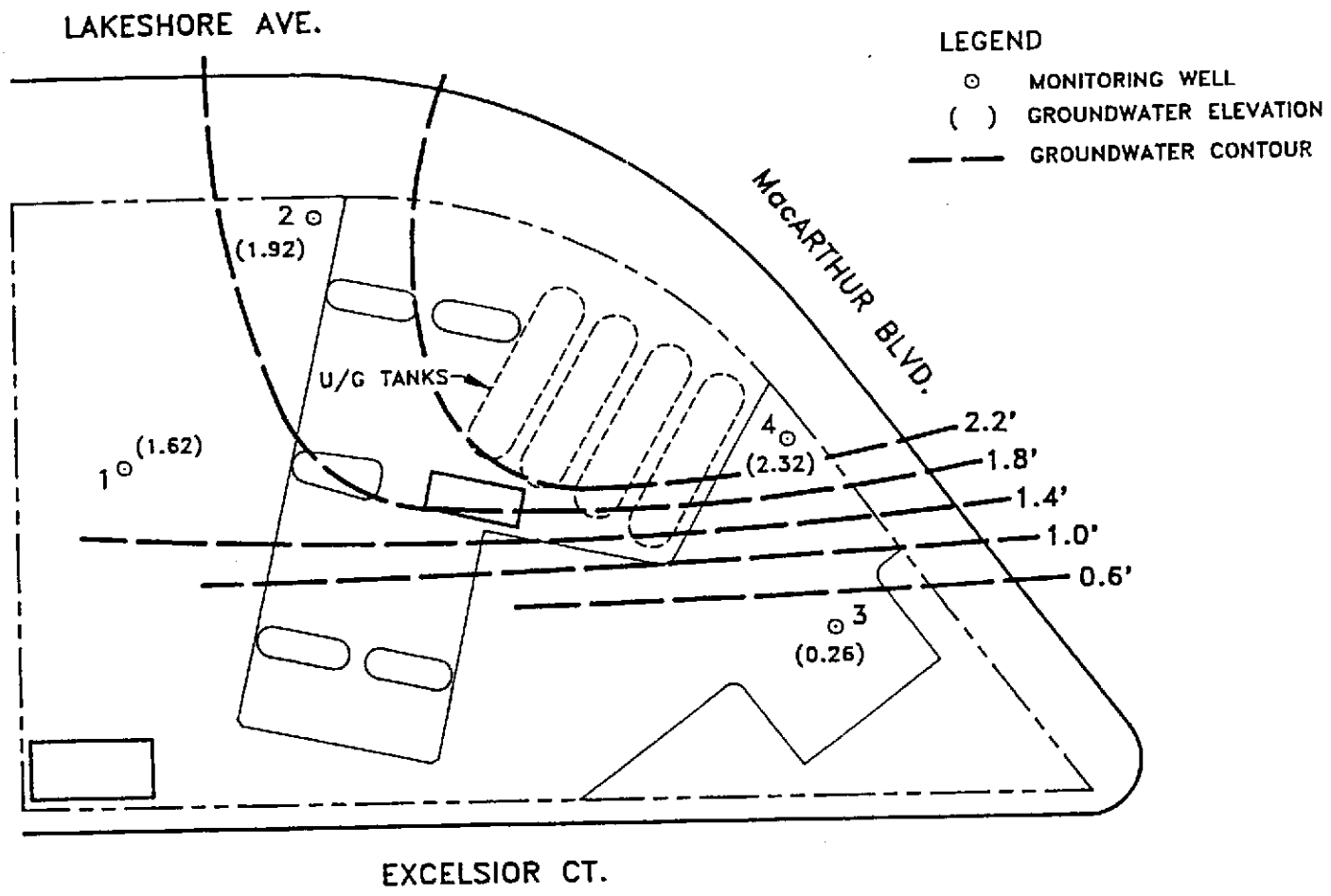


FIGURE 3
GROUNDWATER ELEVATION MAP
(8/20/91)

CHEVRON U.S.A. INC.
SERVICE STATION #9-0121
3026 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

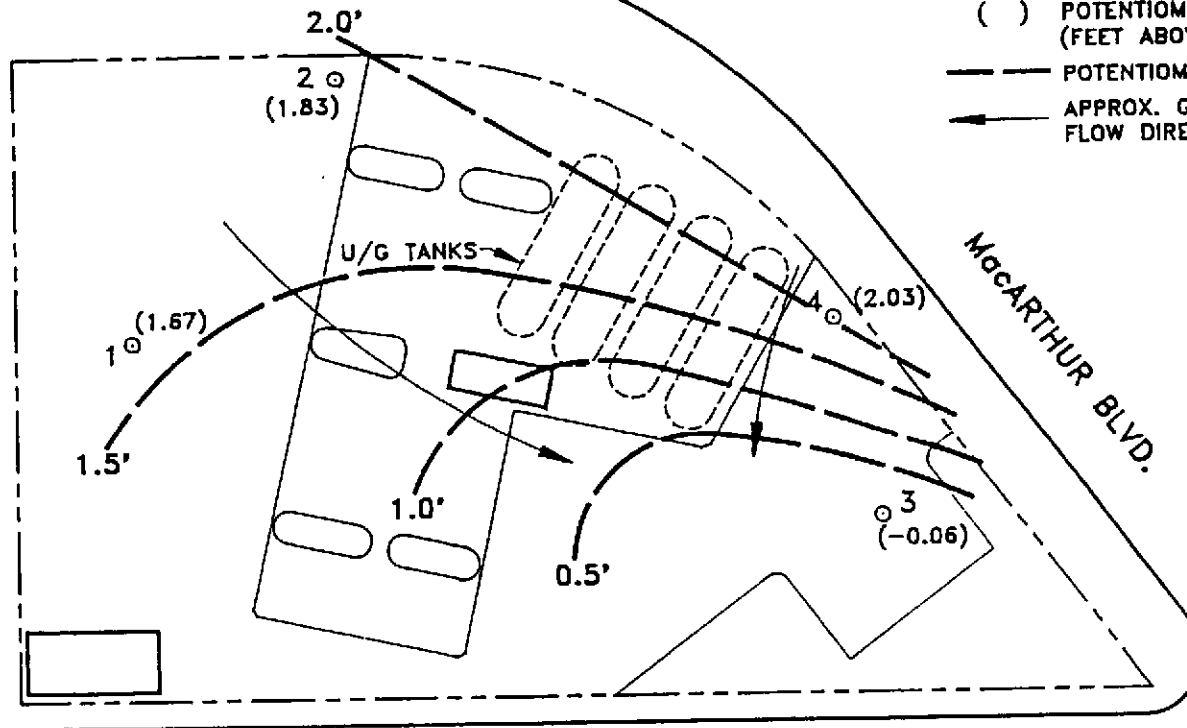
0 FEET 30
SCALE

DRAWN BY: ML 9/13/91

LAKESHORE AVE.

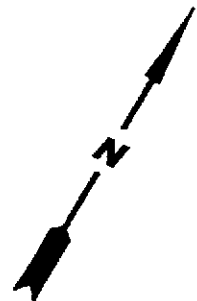
LEGEND


- MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- POTENTIOMETRIC SURFACE CONTOUR
- APPROX. GROUNDWATER FLOW DIRECTION



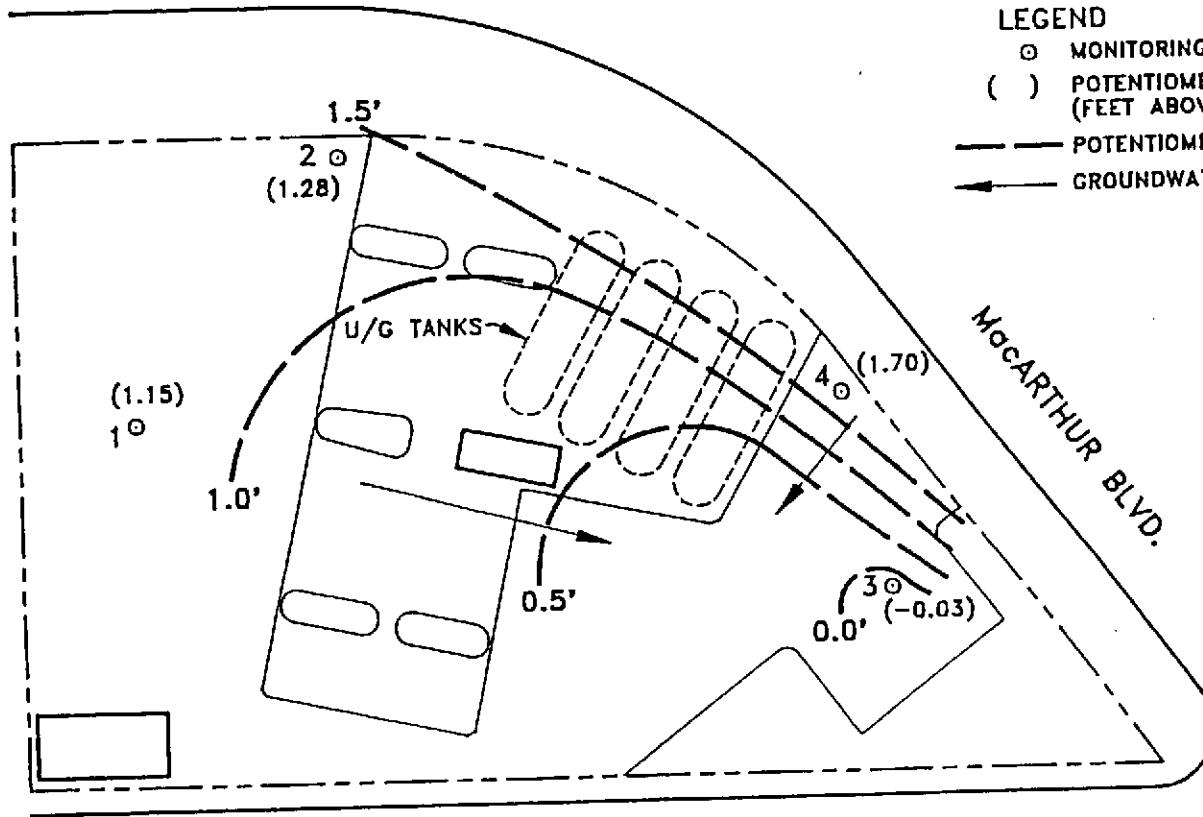
EXCELSIOR CT.

MacARTHUR BLVD.



| | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------|---------------------|-----------------------|-----------------------|----------------------------------------------------------------------|--|-----------------------------------------------|-------------------------|---------------------|--|
|  GROUNDWATER TECHNOLOGY | | | | 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387 | | POTENTIOMETRIC SURFACE MAP (1/8/92) | | | |
| CLIENT: CHEVRON U.S.A. INC. SERVICE STATION #9-0121 | | | | LOCATION: 3026 LAKESHORE AVENUE OAKLAND, CALIFORNIA | | REV. NO.: 0 | DATE: 1/17/92 | | |
| PM <i>SK</i> | PE/RG <i>DRK</i> | DESIGNED SL | DETAILED ML | ACAD FILE: PSM1892/SP1191 | | PROJECT NO.: 020302090 | | FIGURE: 1 | |

LAKESHORE AVE.

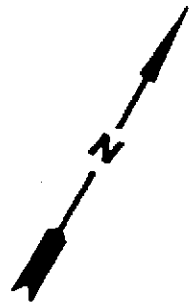



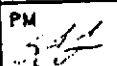
LEGEND

- ⊙ MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- - - POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

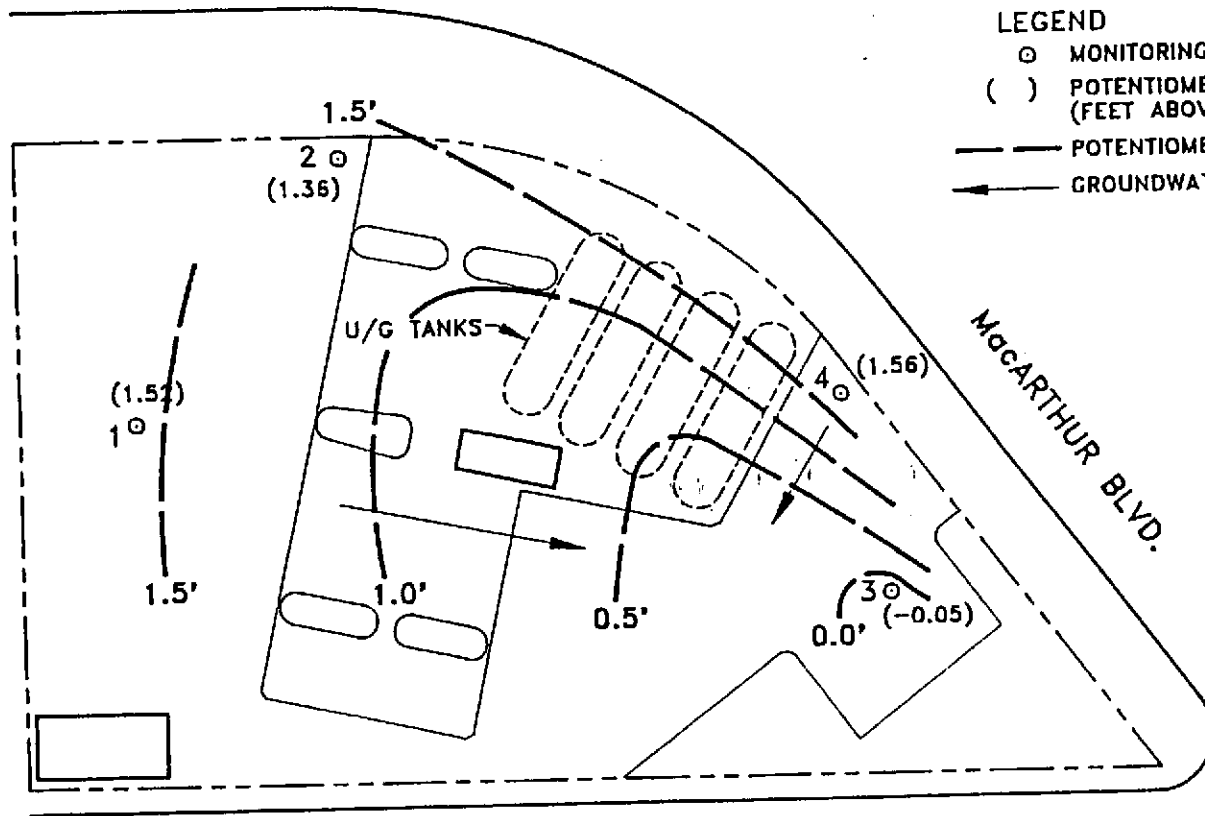
EXCELSIOR CT.

McARTHUR BLVD.



| | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------|--------------|----------------|----------------|---------------------------------------------------------------|--|------------------------------------------------|-------------------|--------------|--|
|  GROUNDWATER TECHNOLOGY | | | | 4057 PORT CHICAGO HWY CONCORD, CA 94520 (510) 671-2387 | | POTENTIOMETRIC SURFACE MAP (9/30/91) | | | |
| CLIENT: CHEVRON U.S.A. INC. SERVICE STATION #9-0121 | | | | LOCATION: 3026 LAKESHORE AVENUE OAKLAND, CALIFORNIA | | REV. NO.: 0 | DATE: 11/14/91 | | |
| PM  | PE/RG IKK | DESIGNED FH | DETAILED ML | ACAD FILE: PSM93091/SP1191 | | PROJECT NO.: 020301500 | | FIGURE: 2 | |

LAKESHORE AVE.



LEGEND

- ⊙ MONITORING WELL
- () POTENTIOMETRIC SURFACE ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- POTENTIOMETRIC SURFACE CONTOUR
- GROUNDWATER FLOW DIRECTION

EXCELSIOR CT.

POTENTIOMETRIC SURFACE MAP
(10/28/91)



GROUNDWATER TECHNOLOGY
4057 PORT CHICAGO HWY
CONCORD, CA 94520
(510) 671-2387

CLIENT: CHEVRON U.S.A. INC.
SERVICE STATION #9-0121

LOCATION: 3026 LAKESHORE AVENUE
OAKLAND, CALIFORNIA

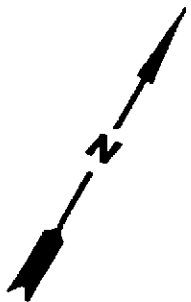
REV. NO.: 0
DATE: 11/14/91

| | | | |
|------------------|---------------------|----------------|----------------|
| PM <i>SJA</i> | PE/RG <i>DKK</i> | DESIGNED FH | DETAILED ML |
|------------------|---------------------|----------------|----------------|

ACAD FILE: PSM02891/SP1191

PROJECT NO.: 020301500

FIGURE: 3



0 FEET 30
SCALE

Virgil Chavez Land Surveying

312 Georgia Street, Suite 200
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

RECEIVED

April 28, 1999
Project No. 1704-06

GETTLER-
RYAN, INC.

Barbara Sieminski
Gettler-Ryan, Inc.
6747 Sierra Ct., Suite J
Dublin, Ca. 94568

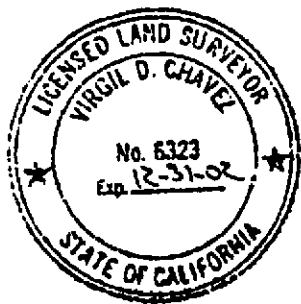
Subject: Monitoring Well Survey
Chevron SS # 9-0121
3026 Lakeshore Ave.
Oakland, Ca.

Dear Barbara:

This is to confirm that we have proceeded at your request to survey the monitoring wells at the above referenced location. Our findings for the are shown in the tables below. The survey was performed on April 12, 1999. Measurements were taken at notches on the top of casing. The benchmark for the survey was a City benchmark, being a cut square in the top of curb, at the northeasterly corner of Walker & Cheney Ave. The second table is for top of casing locations, using the back of sidewalk on Lakeshore as reference line, beginning near the westerly property corner and looking northeasterly. Benchmark Elev. = 9.055 feet, City Datum.

| <u>Well No.</u> | <u>Rim Elevation</u> | <u>TOC Elevation</u> |
|-----------------|----------------------|----------------------|
| MW - 2A | 6.83' | 6.53' |
| MW - 3A | 9.01' | 8.70' |
| MW - 4A | 7.92' | 7.69' |
| MW - 9 | 6.21' | 5.87' |

| <u>Well No.</u> | <u>Station</u> | <u>Offset</u> |
|--------------------------|----------------|---------------|
| MW - 2A | 0+41.87 | 11.76(Rt.) |
| MW - 3A | 1+30.15 | 77.06(Rt.) |
| MW - 4A | 1+30.22 | 47.78(Rt.) |
| MW - 9 | 0+06.82 | 5.62(Rt.) |
| BSW W'ly Prop Cor. | 0+00.00 | 0.00 |
| BSW Beg. Curve Lakeshore | 0+54.20 | 0.00 |



Sincerely,

Virgil D. Chavez

 Virgil D. Chavez, PLS 6323



GROUNDWATER
TECHNOLOGY

Drilling Log

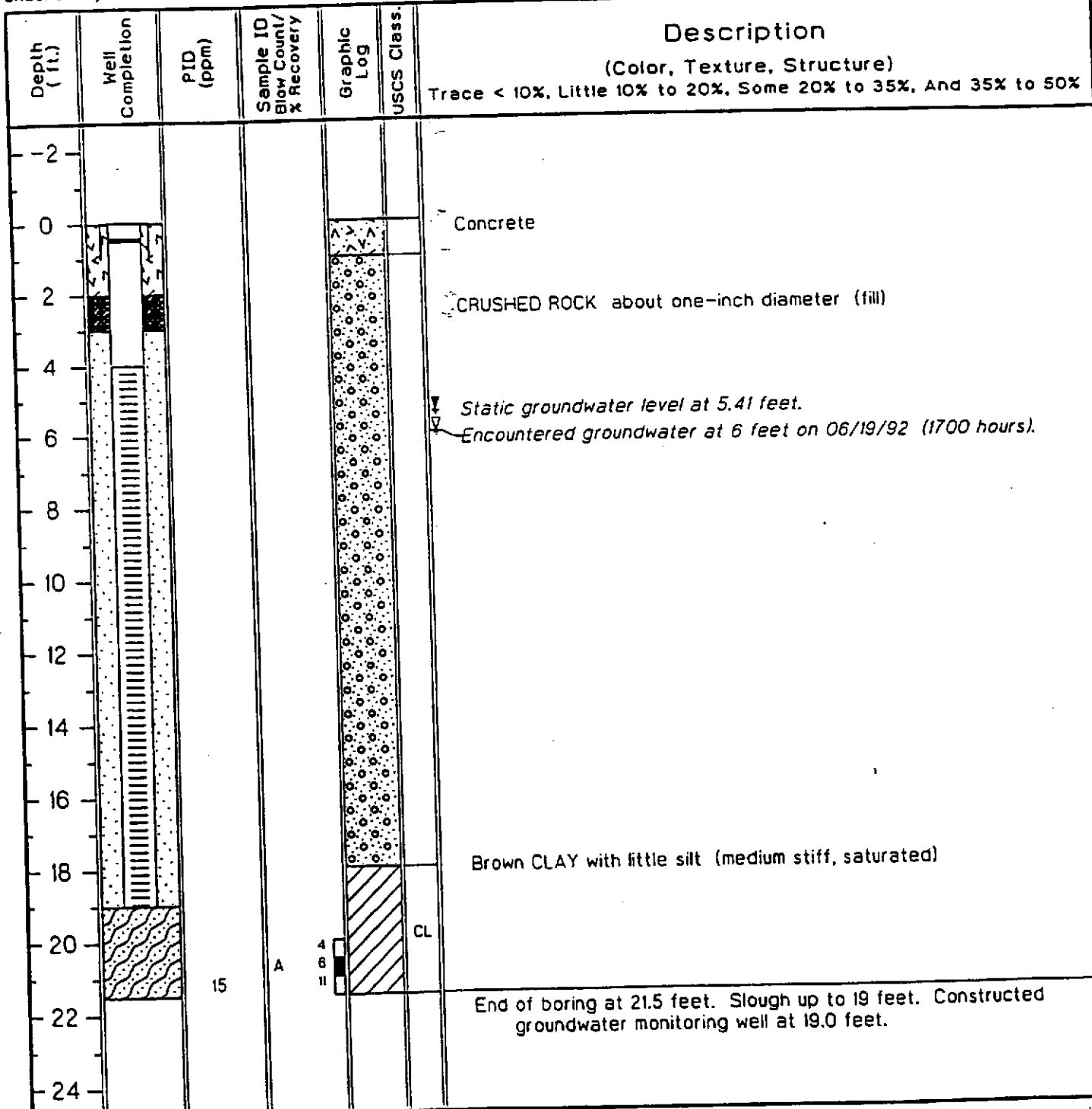
Monitoring Well MW-1

Project CHV/3026 Lakeshore Ave. Owner CHEVRON U.S.A. Products Company
 Location Oakland, California Project No. 02020 2781 Date drilled 06/19/92
 Surface Elev. _____ Total Hole Depth 21.5 ft. Diameter 10 inches ft.
 Top of Casing 6.89 ft. Water Level Initial 6 ft. Static 5.41 ft.
 Screen: Dia 4 in. Length 15 ft. Type/Size 0.020 in.
 Casing: Dia 4 in. Length 4 ft. Type SCH 40 PVC
 Filter Pack Material Lapis Lustre 2/12 Rig/Core Type Mobile B-53/split spoon
 Drilling Company Kvitgaard Well Drilling Method Hollow stem auger Permit # 92281
 Driller Mike Crocker Log By Greg Mischel
 Checked By Dave Kleesattel License No. RG# 5136 *Dave Kleesattel*

See Site Map
For Boring Location

COMMENTS:

The original MW-1 was destroyed using 10-inch augers. The 3/4-inch casing was removed and replaced with 4-inch casing.



Gettler-Ryan, Inc.

Log of Boring MW-2A

PROJECT: *Chevron SS #9-0121*

LOCATION: *3026 Lakeshore Avenue, Oakland, CA.*

GR PROJECT NO.: *346462.01*

SURFACE ELEVATION: *6.53ft. MSL*

DATE STARTED: *04/01/99*

WL (ft. bgs): *5.0* DATE: *04/01/99* TIME: *15:05*

DATE FINISHED: *04/01/99*

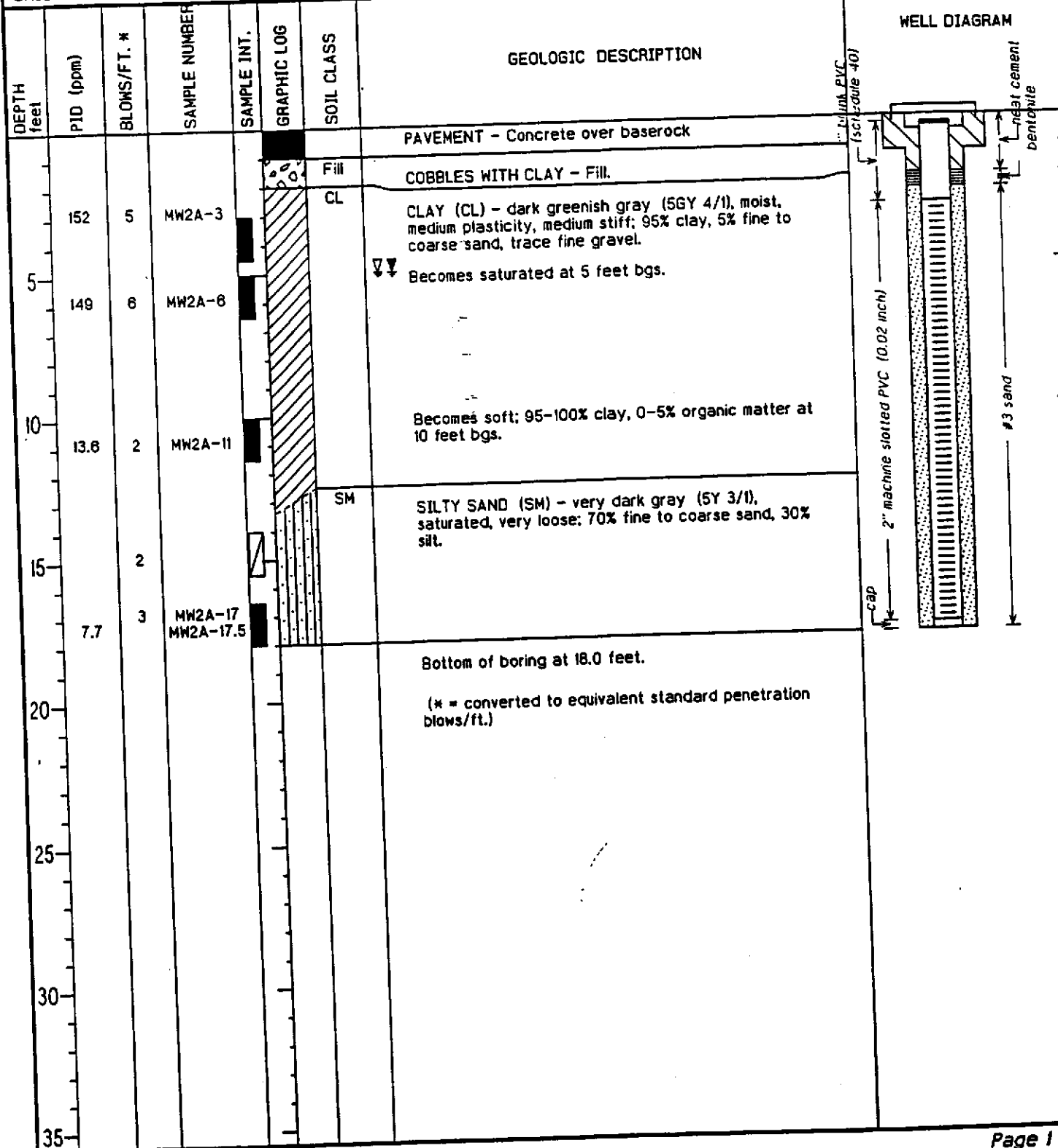
WL (ft. bgs): *5.0* DATE: *04/02/99* TIME: *11:20*

DRILLING METHOD: *8 in. Hollow Stem Auger*

TOTAL DEPTH: *18.0 Feet*

DRILLING COMPANY: *Bay Area Exploration Inc.*

GEOLOGIST: *Barbara Sieminski*



Gettler-Ryan, Inc.

Log of Boring MW-3A

PROJECT: Chevron SS #9-0121

LOCATION: 3026 Lakeshore Avenue, Oakland, CA.

GR PROJECT NO.: 346462.01

SURFACE ELEVATION: 8.70ft. MSL

DATE STARTED: 04/01/99

WL (ft. bgs): 8.0 DATE: 04/01/99 TIME: 12:20

DATE FINISHED: 04/01/99

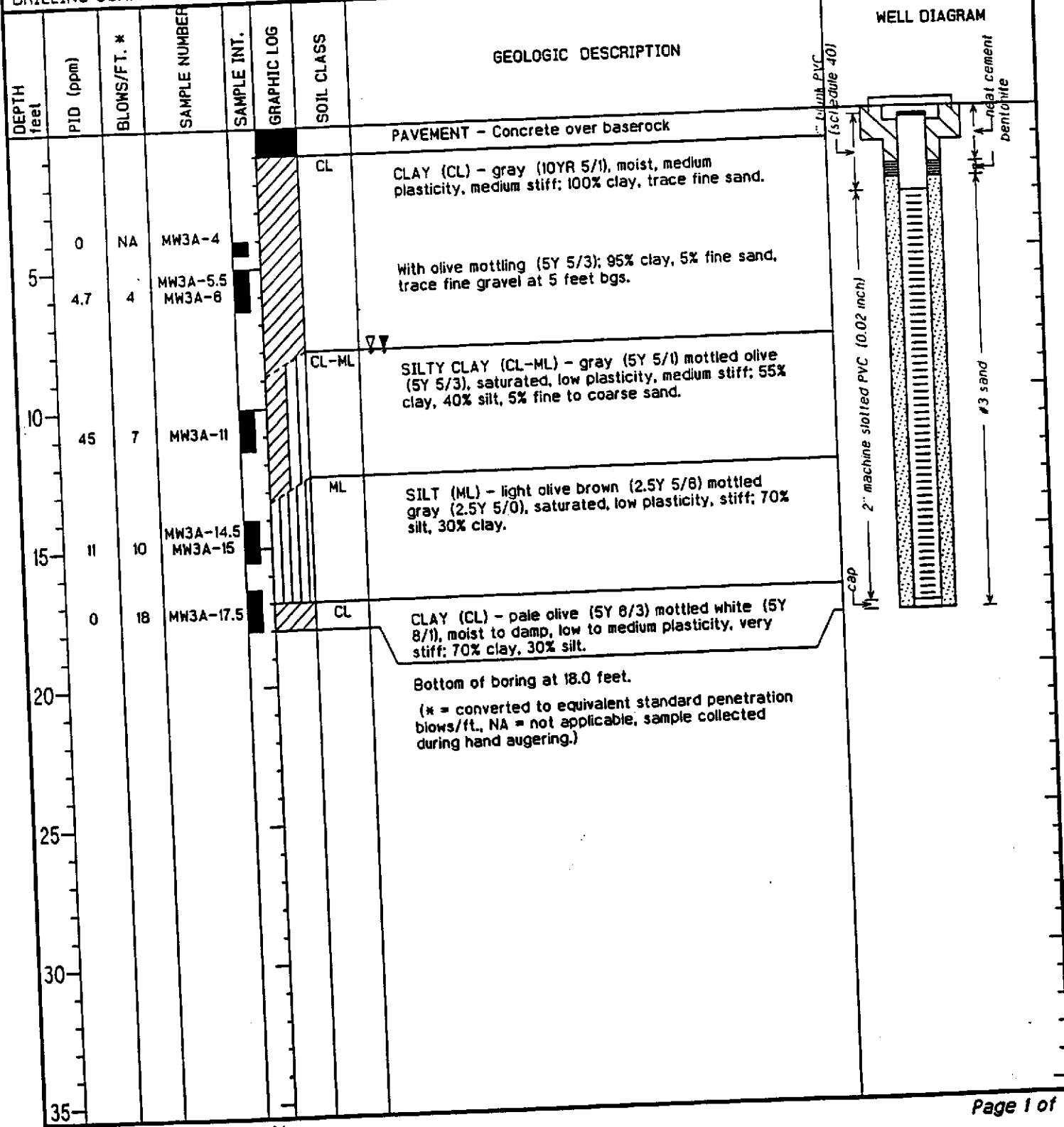
WL (ft. bgs): 8.0 DATE: 04/02/99 TIME: 11:00

DRILLING METHOD: 8 in. Hollow Stem Auger

TOTAL DEPTH: 18.0 Feet

DRILLING COMPANY: Bay Area Exploration Inc.

GEOLOGIST: Barbara Sieminski

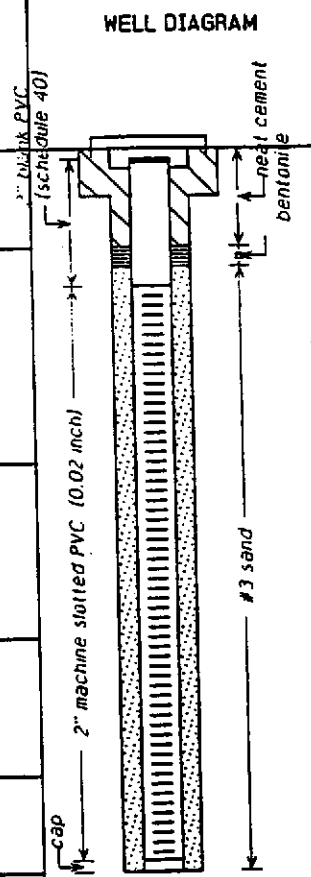


Gettler-Ryan, Inc.

Log of Boring MW-4A

| | |
|----------------------------------------------------|-------------------------------------------------------------------|
| PROJECT: <i>Chevron SS #9-0121</i> | LOCATION: <i>3026 Lakeshore Avenue, Oakland, CA.</i> |
| GR PROJECT NO.: <i>346462.01</i> | SURFACE ELEVATION: <i>7.69ft. MSL</i> |
| DATE STARTED: <i>04/01/99</i> | WL (ft. bgs): <i>4.5</i> DATE: <i>04/01/99</i> TIME: <i>13:55</i> |
| DATE FINISHED: <i>04/02/99</i> | WL (ft. bgs): <i>4.5</i> DATE: <i>04/02/99</i> TIME: <i>9:00</i> |
| DRILLING METHOD: <i>8 in. Hollow Stem Auger</i> | TOTAL DEPTH: <i>18.5 Feet</i> |
| DRILLING COMPANY: <i>Bay Area Exploration Inc.</i> | GEOLOGIST: <i>Barbara Sieminski</i> |

| DEPTH feet | PID (ppm) | BLOWS/FT. * | SAMPLE NUMBER | SAMPLE INT. | GRAPHIC LOG | SOIL CLASS | GEOLOGIC DESCRIPTION | WELL DIAGRAM | |
|---------------|-----------|-------------|---------------|-------------|-------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------|
| | | | | | | | | 2" machine slotted PVC (0.02 inch) | neat cement bentonite |
| 0 | | NA | MW4A-3 | | | | PAVEMENT - Concrete over pea gravel and baserock. | | |
| 5 | 65 | 8 | MW4A-6 | | | CL | CLAY (CL) - dark gray (10YR 4/1) mottled greenish gray (5GY 5/1), moist, low plasticity, medium stiff; 70% clay, 20% silt, 10% fine to coarse sand. Becomes saturated at 4.5 feet bgs. | | |
| 10 | 1.6 | 1 | MW4A-11 | | | ML | SANDY SILT (ML) - dark gray (2.5Y 4/0), saturated, low plasticity, very soft; 60% silt, 30% fine sand, 10% clay. | | |
| 15 | 3.0 | 4 | MW4A-16 | | | CL-ML | SILTY CLAY (CL) - dark greenish gray (5GY 4/1), saturated, low plasticity, medium stiff; 60% clay, 40% silt. | | |
| 20 | 3.0 | 6 | MW4A-17.5 | | | CL | CLAY (CL) - olive (5Y 5/3) mottled dark yellowish brown (10YR 4/6), moist, low to medium plasticity, medium stiff; 80% clay, 20% silt. | | |
| 20 | | | | | | | Bottom of boring at 18.5 feet. | | |
| 25 | | | | | | | (* = converted to equivalent standard penetration blows/ft., NA = not applicable, sample collected during hand augering.) | | |
| 30 | | | | | | | | | |
| 35 | | | | | | | | | |





**GROUNDWATER
TECHNOLOGY**

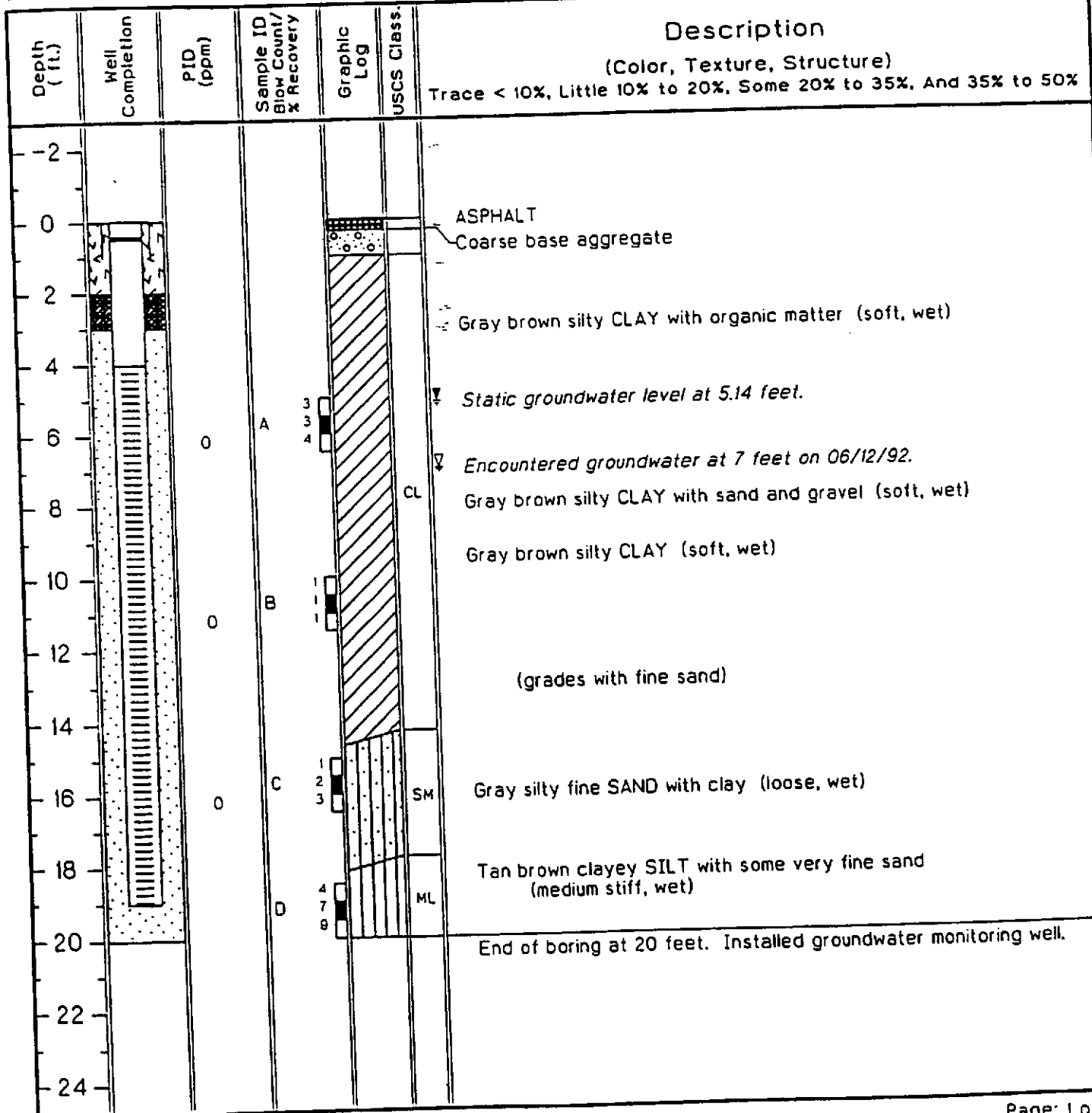
Drilling Log

Monitoring Well **MW-6**

Project CHV/3026 Lakeshore Ave. Owner CHEVRON U.S.A. Products Company
 Location Oakland, California Project No. 02020 2781 Date drilled 06/12/92
 Surface Elev. 5.32 ft. Total Hole Depth 20.0 ft. Diameter 8 inches ft.
 Top of Casing 4.46 ft. Water Level Initial 7 ft. Static 5.14 ft.
 Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
 Casing: Dia 2 in. Length 4 ft. Type SCH 40 PVC
 Filter Pack Material Lapis Lustre 2/12 Rig/Core Type Mobile B-53/split spoon
 Drilling Company Kvitauq Well Drilling Method Hollow stem auger Permit # 92281
 Driller Mike Crocker Log By Steve Kranyak
 Checked By Dave Kleesattel License No. RG# 5136 *Dave Kleesattel*

See Site Map
For Boring Location

COMMENTS:





GROUNDWATER
TECHNOLOGY

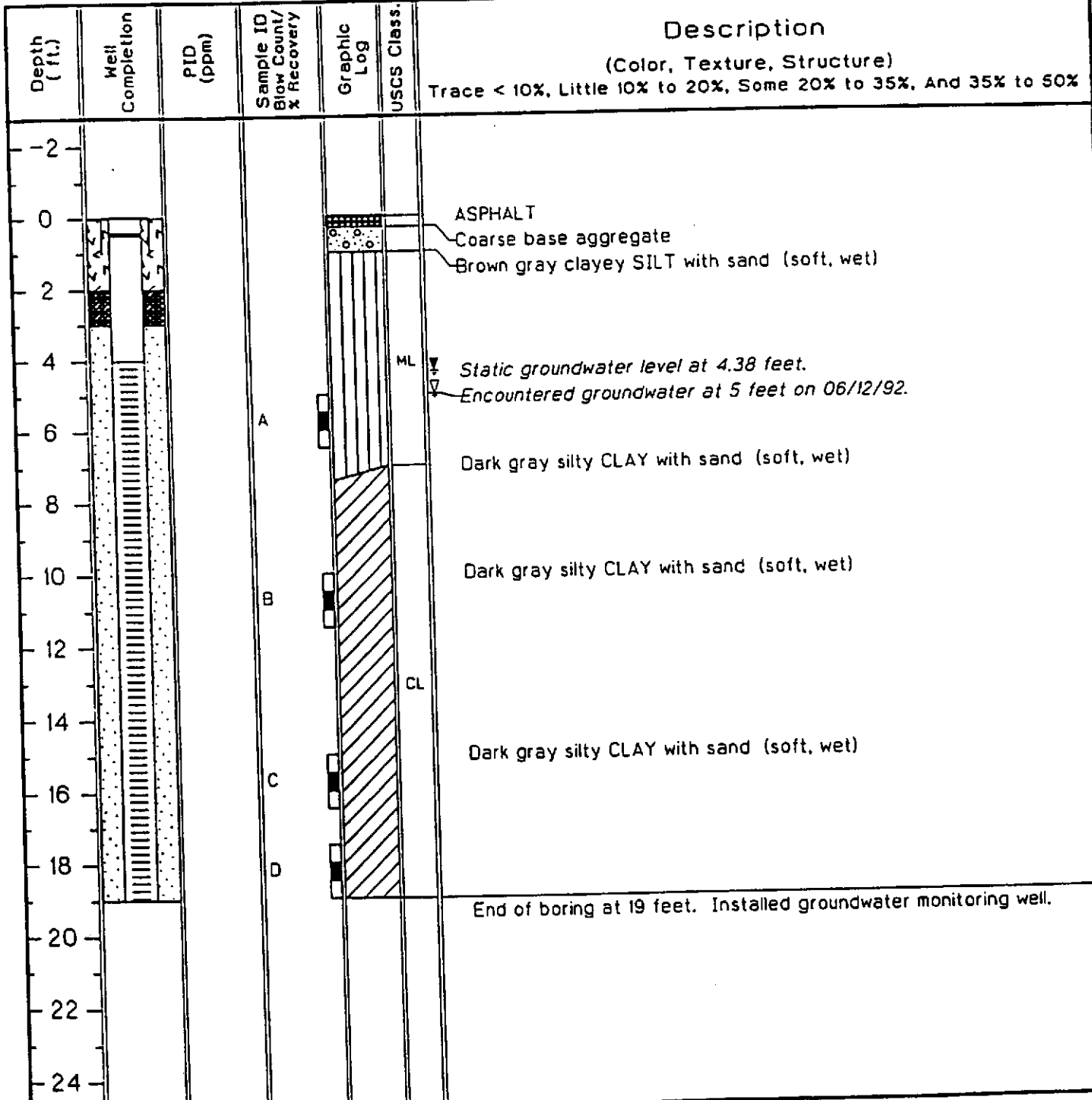
Drilling Log

Monitoring Well MW-7

Project CHV/3026 Lakeshore Ave. Owner CHEVRON U.S.A. Products Company
 Location Oakland, California Project No. 02020 2781 Date drilled 06/12/92
 Surface Elev. 5.62 ft. Total Hole Depth 19.0 ft. Diameter 8 inches ft.
 Top of Casing 5.26 ft. Water Level Initial 5 ft. Static 4.38 ft.
 Screen: Dia 2 in. Length 15 ft. Type/Size 0.020 in.
 Casing: Dia 2 in. Length 4 ft. Type SCH 40 PVC
 Filter Pack Material Lapis Lustre 2/12 Rig/Core Type Mobile B-53/split spoon
 Drilling Company Kvilhaug Well Drilling Method Hollow stem auger Permit # 92281
 Driller Mike Crocker Log By Steve Kranyak
 Checked By Dave Kleesattel License No. RG# 5136 *Dave Kleesattel*

See Site Map
For Boring Location

COMMENTS:





GROUNDWATER
TECHNOLOGY

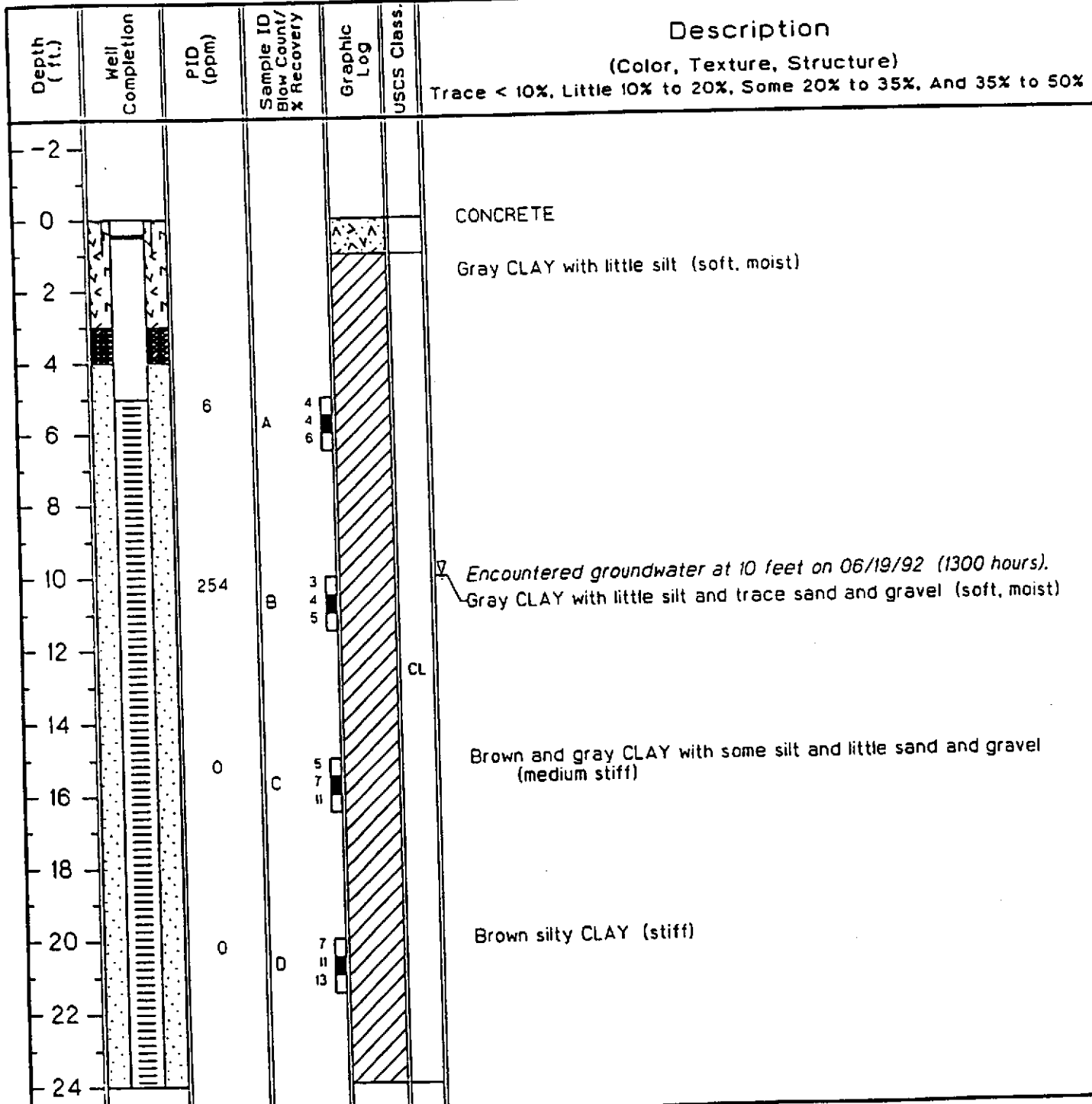
Drilling Log

Monitoring Well MW-8

Project CHV/3026 Lakeshore Ave. Owner CHEVRON U.S.A. Products Company
 Location Oakland, California Project No. 02020 2781 Date drilled 06/19/92
 Surface Elev. 9.23 ft. Total Hole Depth 30.0 ft. Diameter 8 inches ft.
 Top of Casing 8.94 ft. Water Level Initial 10 ft. Static 24.14 ft.
 Screen: Dia 2 in. Length 20 ft. Type/Size 0.020 in.
 Casing: Dia 2 in. Length 5 ft. Type SCH 40 PVC
 Filter Pack Material Lapis Lustre 2/12 Rig/Core Type Mobile B-53/split spoon
 Drilling Company Kvilhaug Well Drilling Method Hollow stem auger Permit # 92281
 Driller Mike Crocker Log By Greg Mischel
 Checked By Dave Kleesattel License No. RG# 5136 *Dave Kleesattel*

See Site Map
For Boring Location

COMMENTS:





GROUNDWATER
TECHNOLOGY

Drilling Log

Monitoring Well MW-8

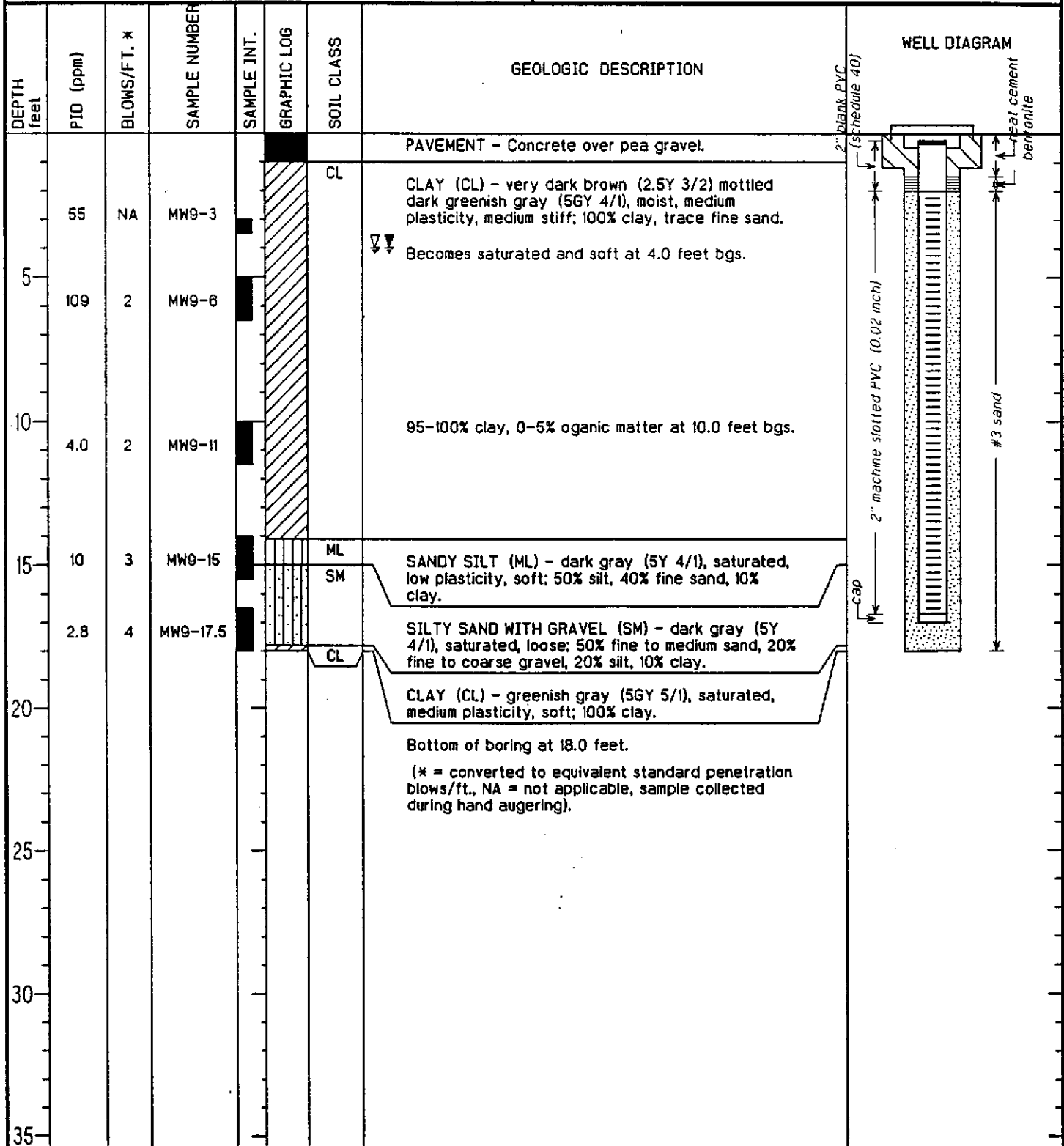
Project CHV/3026 Lakeshore Ave. Owner CHEVRON U.S.A. Products Company
 Location Oakland, California Project No. 02020 2781 Date drilled 06/19/92

| Depth (ft.) | Well Completion | PID (ppm) | Sample ID Blow Count/ X Recovery | Graphic Log | USCS Class. | Description (Color, Texture, Structure) |
|----------------|--------------------|--------------|----------------------------------------|----------------|----------------|-------------------------------------------------------------------------------------------------------------------------|
| | | | | | | Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50% |
| 24 | | 0 | E | | CL | Static groundwater at 24.14 feet. Gray silty CLAY (stiff, moist) |
| 26 | | | | | | |
| 28 | | | | | | |
| 30 | | | | | | End of boring at 30 feet. Backfilled with bentonite up to 25 feet. Installed groundwater monitoring well at 25 feet. |
| 32 | | | | | | |
| 34 | | | | | | |
| 36 | | | | | | |
| 38 | | | | | | |
| 40 | | | | | | |
| 42 | | | | | | |
| 44 | | | | | | |
| 46 | | | | | | |
| 48 | | | | | | |
| 50 | | | | | | |
| 52 | | | | | | |
| 54 | | | | | | |
| 56 | | | | | | |

Gettler-Ryan, Inc.

Log of Boring MW-9

| | |
|----------------------------------------------------|-------------------------------------------------------------------|
| PROJECT: <i>Chevron SS #9-0121</i> | LOCATION: <i>3026 Lakeshore Avenue, Oakland, CA.</i> |
| GR PROJECT NO.: <i>346462.01</i> | SURFACE ELEVATION: <i>5.87ft. MSL</i> |
| DATE STARTED: <i>04/01/99</i> | WL (ft. bgs): <i>4.0</i> DATE: <i>04/01/99</i> TIME: <i>13:20</i> |
| DATE FINISHED: <i>04/02/99</i> | WL (ft. bgs): <i>4.0</i> DATE: <i>04/02/99</i> TIME: <i>10:15</i> |
| DRILLING METHOD: <i>8 in. Hollow Stem Auger</i> | TOTAL DEPTH: <i>18.0 Feet</i> |
| DRILLING COMPANY: <i>Bay Area Exploration Inc.</i> | GEOLOGIST: <i>Barbara Sieminski</i> |



Gettler-Ryan, Inc.

Log of Boring MW-9

PROJECT: *Chevron SS #9-0121*

LOCATION: *3026 Lakeshore Avenue, Oakland, CA.*

GR PROJECT NO.: *346462.01*

SURFACE ELEVATION: *5.87ft. MSL*

DATE STARTED: *04/01/99*

WL (ft. bgs): *4.0* DATE: *04/01/99* TIME: *13:20*

DATE FINISHED: *04/02/99*

WL (ft. bgs): *4.0* DATE: *04/02/99* TIME: *10:15*

DRILLING METHOD: *8 in. Hollow Stem Auger*

TOTAL DEPTH: *18.0 Feet*

DRILLING COMPANY: *Bay Area Exploration Inc.*

GEOLOGIST: *Barbara Sieminski*

