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A Member of The IT Group

STID 3766
CS

August10, 2000
Project 807312 (340-087.6A)

Ms. Juliet Shin
Alameda County Department of environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Re: **Underground Storage Tank Case Review/Closure Request**
Former Texaco Service Station
1127 Lincoln Avenue
Alameda, California

Dear Ms. Shin:

On behalf of Equiva Services LLC (Equiva), IT Corporation (IT) presents this Underground Storage Tank Case Review/Closure Request letter to request that the Alameda County Department of Environmental Health (ACDEH) provide case closure for the referenced site. Equiva currently manages the site for Texaco, Inc. In preparing this case closure request, IT has followed the format presented in the State Water Resources Control Board, Division of Clean Water Programs closure request guidance letter dated January 3, 1997.

Site maps referenced in this letter are presented as Attachment A. Historical soil and groundwater analytical data are presented as Attachments B and C, respectively. Selected project reports used in the preparation of this document are referenced at the end of this letter.

IT considers this case eligible for no further regulatory action on the following basis:

- All hydrocarbon sources [piping and underground storage tanks (UST)] have been removed from the site. The four gasoline USTs, the waste oil UST, and associated product piping and dispensers were removed in 1989 when the station terminated fueling operations. Additionally, approximately 200 cubic yards of soils affected by petroleum hydrocarbons were removed from the UST excavations, aerated on site, and disposed at a Class III landfill.

- Hydrocarbon-impacted soil and groundwater have been effectively remediated by a dual soil vapor and groundwater extraction and treatment (SVE/GWET) system which operated between September 1993 and September 1996.

- Separate-phase hydrocarbons (SPH) have never been observed in any site wells or borings.

- Methyl tert-butyl ether (MtBE) has been occasionally reported in five wells located on site and adjacent to the site; MtBE was confiremd in one sample (MW-2) at a concentration of 6 ppb in August 1999. MtBE has not been reported in any site wells during the two recent quarterly sampling events. During the most recent monitoring event, all MtBE analyses were confiremd using EPA Method 8260. No MTBE was detected. MtBE has not been detected in groundwater samples collected from off-site perimeter wells during the last four sampling events.

- Groundwater quality at the site has been monitored from 1991 through the present. Hydrocarbon concentrations in groundwater have been reduced to low levels by the SVE/GWE system. Benzene continues to be detected in groundwater in several site monitoring wells located adjacent to the former fuel USTs. However, benzene and all other hydrocarbon constituents have been delineated to low concentrations or below detection limits by a network of 11 groundwater monitoring wells located on site and off site.

- There are no public water-supply wells located within a ¼-mile radius of the site.

- It is IT Corporation's opinion that this site has been adequately characterized to determine that there is a low residual risk to nearby receptors.

BACKGROUND

Site Description

The former Texaco site is located in the City of Alameda on the northwest corner of Lincoln Avenue and Bay Street (Figure A-1 presented in Appendix A). The site comprises a relatively flat asphalt-covered lot, which lies at an elevation of approximately 17 feet above mean sea level (MSL). The site is located approximately 3,500 feet south of the Alameda Inner Harbor Channel, and approximately 5,500 feet north of the San Francisco Bay. The site is located within a mixed commercial and residential area. Residential property borders the site to the north; a plant nursery borders the site to the west, and both commercial and residential properties border the site to the south and east across Lincoln Avenue and Bay Street, respectively.

The site was operated as a Texaco service station from 1931 through 1985. During this period fuel USTs had been removed and replaced. IT is not aware of any existing records that would indicate the dates or specifics regarding the older generation USTs. During September 1989, four gasoline USTs and one waste oil UST were removed from the site. These USTs were not replaced, and the excavations were subsequently backfilled with imported fill. The site is currently an operating auto repair facility. A site plan depicting existing site features is shown on Figures A-2 and A-3 presented in Appendix A.

Geologic/Hydrogeologic Setting

The former Texaco site is located on Alameda Island, which is bordered to the north by the Inner Harbor, a tidal channel that separates the island from the City of Oakland, and to the south by the San Francisco Bay. Surficial deposits underlying Alameda Island comprise Quaternary dune sand and artificial fill.

As part of environmental investigations at the former Texaco site, a total of 32 exploratory borings have been installed to depths between approximately 3 feet and 21.5 feet below ground surface (bgs), at on- and off-site locations. Eleven of these borings were converted to groundwater monitoring wells and five were converted to soil vapor extraction wells. Based on these previous investigations, the site is underlain predominantly by fine- to medium-grained silty sand and sand to the total depth explored. Site geologic cross-sections are shown on Figures A-4, A-5, and A-6 presented in Appendix A.

Groundwater has been encountered in borings and wells at depths ranging from approximately 3 feet to 8 feet bgs. Seasonal fluctuations in the groundwater surface have been relatively minor at the site. In review of historical groundwater monitoring reports, the predominant direction of groundwater flow has been northerly toward the inner harbor, with slight variations to the northwest and northeast. Groundwater gradient maps depicting typical groundwater flow patterns beneath the site during the fourth quarter 1998 and the first and second quarter 1999 are attached as Figures A-7, A-8, and A-9, respectively and presented in Appendix A.

Water-Supply Wells/Surface Water

Applied GeoSystems (AGS) performed a water well survey in 1991. The results of the well survey are included in the enclosed *Initial Subsurface Environmental Investigation Report*, prepared by AGS, dated May 8, 1991. In summary, the study found that there

were two approximately 120-foot deep cathodic protection wells, but no water supply or industrial wells located within a ¼-mile radius of the site.

Previous Assessments

Environmental investigations were performed between 1989 and 1997. All tabulated soil and groundwater analytical data collected from the site during this period are presented as Attachments B and C, respectively.

1989 Underground Storage Tank Removal Activities: Environmental investigations were initiated in September 1989, when four gasoline USTs (two 1,000-gallon and two 4,000 gallon) and one 550-gallon waste oil UST were removed from the site. A total of nine soil samples were collected from the UST excavations at depths between 8 and 11 feet bgs. Groundwater was not encountered. Analytical results from soil samples indicated concentrations of up to 5,100 milligrams per kilogram (mg/kg) of total purgeable petroleum hydrocarbons (TPPH) in the westernmost UST excavation and 6,200 mg/kg of TPPH in the easternmost UST excavation (Figure A-10 presented in Appendix A). As a result of these elevated levels in soils, additional excavation was performed in both UST excavations. Four additional soil samples were collected (Figure A-10 presented in Appendix A), which contained concentrations of up to 5,000 mg/kg TPPH in the westernmost UST excavation. When UST removal activities were completed in October 1989, approximately 200 cubic yards of soil had been removed from the UST excavations. The stockpiled soil was subsequently transported to a Class III landfill for disposal.

1991 Soil and Groundwater Investigation: Following the UST removals, additional subsurface investigations were performed to assess the extent of petroleum hydrocarbons in soil and groundwater. In March 1991, AGS installed a total of 15 exploratory borings, and converted 3 of these borings to monitoring wells, designated MW-1 through MW-3. Five of the borings were converted to vapor extraction wells, designated VW-1 through VW-5. The investigation results are summarized herein. The investigation concluded that petroleum hydrocarbons had affected shallow soils in the vicinity of the former gasoline USTs, and product dispensers. As shown on Figure A-11, presented in Appendix A, the areas of maximum TPPH concentrations were in the vicinity of the former 1,000-gallon gasoline USTs, south of the former 4,000-gallon gasoline USTs, and in the area of the former dispensers at depths between approximately 5.5 and 8.5 feet bgs. The lateral extent of petroleum hydrocarbons in soil was delineated to below laboratory detection limits in the western and southeastern portions of the site.

AGS concluded that diesel, volatile organic compounds, and semivolatile organic compounds had not impacted groundwater beneath the site; however, gasoline constituents were detected in all three monitoring wells. Maximum concentrations of 4,500 micrograms per liter (µg/L) TPPH and 1,300 µg/L benzene were detected in Well MW-1, located at the northeastern corner of the property, downgradient of the former 1,000-gallon USTs.

– Vapor extraction feast (5/10/92) indicated that this approach in comb w/ gw extr. would be effective, since sw elevation was high.

1992 Soil and Groundwater Investigation: In June 1992, Resna (formerly AGS) installed five groundwater monitoring wells, designated MW-4 through MW-8, at the locations shown on Figure A-2 presented in Appendix A. The purpose of these wells was to further define the extent of petroleum hydrocarbons in groundwater. Soil analytical data collected from the borings indicated that the lateral extent of hydrocarbon affected soils had been delineated to below laboratory detection limits to the north, south, east, and west by well borings, MW-4, MW-6, MW-7, and MW-8. These results apparently confirmed that hydrocarbon affected soils were constrained on site to the area of the former fuel USTs and product dispensers.

On June 25, 1992, maximum TPPH concentrations were detected in downgradient Wells MW-5 (18,000 µg/L) and MW-8 (11,000 µg/L). The northern downgradient extent of the hydrocarbon plume was not defined during the 1992 investigation. TPPH was also detected in the groundwater sample collected at Well MW-6 (990 µg/L), located just south (upgradient) of the site. Well MW-2, located just 10 feet north of MW-6, contained TPPH at 4,700 µg/L indicating that the hydrocarbons attenuated significantly upgradient of the site between Wells MW-2 and MW-6. Petroleum hydrocarbons were not detected in groundwater samples collected at Wells MW-4 and MW-7, indicating that the hydrocarbons were defined to the west and east of the site.

– 7/21/92 Pump test done on MW-5, est. zone of capture of 150' up & 24' downgradient. GW extr. deemed viable.

1995 Soil and Groundwater Investigation: Between February and May 1995, Groundwater Technology, Inc. (GTI) installed three groundwater monitoring wells, designated MW-9 through MW-11, and nine direct-push probes, designated B-1 through B-9, at the locations shown on Figure A-2 presented in Appendix A. The purpose of these probes and wells was to further define the extent of the hydrocarbon plume downgradient of the former Texaco site. Excluding one detection of total xylenes (0.018 mg/kg), petroleum hydrocarbon constituents were not detected in soil samples collected from the probes and well borings, further confirming that hydrocarbon-affected soils were constrained to the approximate site boundaries.

Groundwater analytical results indicated that TPPH and benzene concentrations from samples collected at Wells MW-9 through MW-11 were below laboratory detection limits indicating that the northern (downgradient) extent of petroleum hydrocarbons had been delineated.

SITE REMEDIATION

Based on the results of the site investigations and site groundwater monitoirng (discussed below), a remedial system was installed at the site, consisting of of soi vapor extraction and groundwater extraction andtreatment. The SVE/GWET system operated at the site between September 1993 and September 1996. The system extracted soil vapors from a well field consisting of Wells VW-1 through VW-5 and extracted soil vapor and groundwater from Wells MW-1, MW-2, and MW-5 (Figure A-13 presented in Appendix A). Its purpose was to depress the groundwater surface to expose more soil for vapor extraction and to hydraulically control the potential migration of the hydrocarbon plume.

Soil vapors were initially treated by an internal combustion engine prior to discharge to the atmosphere. Subsequently, as soil vapor influent concentrations declined, the soil vapors were treated through carbon canisters. Groundwater was extracted at a rate of between approximately 3 to 7 gallons per minute. The extracted water was treated through activated carbon canisters.

In September 1996, on behalf of Texaco, Kaprealian Engineering, Inc. (KEI) requested concurrence from the ACDEH to terminate operation of the SVE/GWET system. Rationale for system termination included a decreasing trend in influent soil vapor concentrations with hydrocarbon extraction rates dropping from a maximum 0.7 pounds per day in 1994, to 0.30 pounds per day or less since January 1996, and an observation that the hydrocarbon plume appeared relatively stable and was delineated in the downgradient direction of groundwater flow. The SVE/GWET system operation was terminated following approval of the ACDEH.

1991 through 1999 Groundwater Monitoring: Quarterly groundwater monitoring and sampling has been conducted at the site from January 1991 through to the present. SPH has never been found in site wells. The most recent groundwater monitoring report is enclosed with this letter. The monitoring report includes historical groundwater elevation and analytical data presented in Attachment C.

As stated previously, a SVE/GWET system operated at the site between September 1993 and September 1996, to remediate soil and groundwater affected by petroleum hydrocarbons. Trends in historical groundwater analytical data appear to indicate that dissolved concentrations of petroleum hydrocarbons have decreased significantly as a result of groundwater remediation, suggesting that the lateral extent of the hydrocarbon plume was reduced.

Groundwater samples were first analyzed for MtBE in August 1995. Since that time apparent concentrations of MtBE have been reported in groundwater samples from Wells MW-1, MW-2, MW-3, MW-6, and MW-8 at concentrations ranging from 110 µg/L to 5.4 µg/L. These detections have not been validated by Environmental Protection Agency Method 8260 with the exception of one event (August 1999), in which 6 ug/L were detectedin Well MW-2. During the most recent monitoring event, all MtBE analyses were confiremd using EPA Method 8260. No MTBE was detected. MtBE has not been detected in groundwater samples collected from off-site perimeter wells during the last four sampling events, or from any site associated well duringhte last two events.

Based on historical groundwater analytical data, the hydrocarbon plume has been adequately delineated by perimeter wells. Maps showing the concentrations of petroleum hydrocarbons in groundwater in November 1998, February 1999, and May 1999 are shown on Figures A-12, A-8, and A-9 respectively, presented in Appendix A. As demosntrated in the most recnet quarterly report (Attachment D), hydrocarbon conentrations are low or not detected, and off-site wells have not detected TPPH or BTEX compounds for at least the latest four quarters of monitoring.

CURRENT SITE STATUS AND REGULATORY ACTIVITY

In a letter dated September 11, 1996, the ACDEH provided written concurrence to cease operation of the remediation system. In that letter, the ACDEH also stated that, at the time, it was uncertain if the site could be classified as a "low risk groundwater case" per the Regional Water Quality Control Board's January 5, 1996 *Interim Guidance* document. This was because some of the qualifications for a "low risk groundwater case" included hydrocarbon plume stability and no significant risk to human health. The ACDEH pointed out that it was uncertain whether the hydrocarbon plume would stabilize when operation of the groundwater extraction system was halted, and that if the plume migrated to the extent observed in the past (e.g. elevated levels of hydrocarbons in Well MW-8 located down gradient and off-site), the hydrocarbon concentrations may pose a health risk to adjacent residents. Based on these concerns, the ACDEH requested that Texaco continue monitoring groundwater quality and to be prepared to implement further remediation, in the event that increased hydrocarbon levels or significant plume migration is observed for several consecutive quarters.

In a letter dated July 9, 1997, the ACDEH concurred with Texaco's request to remove all remediation equipment from the site. ACDEH noted that the hydrocarbon concentrations within wells placed on the border and within the plume had not increased in the last three monitoring events since the remediation system was turned off. In their recent letter of January 24, 2000, the ACDEH questioned the status of Monitoring Well MW-5 which

has not been accessible since October 30, 1997. Furthermore, before site closure can be granted for this site, it must be proven that groundwater in the vicinity of MW-5 does not pose a threat to the environment or the public health.

On February 7, 2000, IT removed approximately 10-inches of concrete and 18-inches of gravel from the MW-5 vault box. The well appeared to be in serviceable condition, containing an old extraction pump that was hooked up to a SVE pipe. The pump, drums and hoses were removed from the site. The analytical results from Well MW-5 are included in the recent Quarterly Monitoring Report – First Quarter 2000. The results show that all hydrocarbon concentrations fall below the normal detection limits set for each analyte.

EVALUATION OF SITE FOR CLOSURE

IT requests that ACDEH staff consider the following current site conditions when evaluating the site's eligibility for closure.

- The site currently exists as an auto repair facility, and all underground structures associated with the former Texaco service station operations have been removed. Thus, all known sources of petroleum discharge at the site have been removed.

- The SVE/GWET system has effectively reduced hydrocarbon concentrations in soil and groundwater beneath the site. The residual hydrocarbon plume is reasonably defined and is considered stable or shrinking.

- The current health risk due to ingestion of or dermal contact with soil affected by the discharge appears to have been abated, since the shallow hydrocarbon-impacted soil has been either excavated or treated in place.

- SPH has not been observed in site wells.

- MtBE has been occasionally detected in five wells located on site and adjacent to the site however, it was not detected duringthe most recnet quarreterly monitoring event. MtBE has not been detected in groundwater samples collected from off-site perimeter wells during the last four quarterly monitoring events.

- TPPH and BTEX compounds in all site associated wells are either a low concnetrations or not detected.

- No drinking water wells are documented within a ¼-mile radius of the source of the discharge.

- Well MW-5 has been reinstated into the quarterly monitoring program. Analytical results from groundwater collected from Well MW-5 does not contain detectable concentrations of TPPH, BTEX compounds, and MtBE; therefore, it poses no threat to the environment or to public health.

- Texaco has responded diligently and has effectively remediated soil and groundwater affected by petroleum hydrocarbons.

Based on the above factors, it is IT Corporation's opinion this case should be closed and no further regulatory action required.

If you have any questions regarding this request, please call me at (510) 740-5813

Sincerely,

IT Corporation

Michael Hurd
Senior Geologist
CHG 0068

Attachments: Attachment A - Historical Maps
Attachment B - Historical Soil Analytical Data
Attachment C - Historical Groundwater Analytical Data
Attachment D - Quarterly Monitoring Report - First Quarter 2000

cc: Ms. Karen Petryna, Equiva Services LLC; P.O. Box 7869, Burbank, CA 91510-7869

REFERENCES

Applied GeoSystems, Inc., *Initial Subsurface Environmental Investigations at Former Bay Street Station, 1127 Lincoln Avenue, Alameda, California*, May 7, 1991.

Applied GeoSystems, Inc., Additional Subsurface Environmental Investigation and Pumping Test at Former Bay Street Texaco Station, 1127 Lincoln Avenue, Alameda, California, September 30, 1992.

CEECON, Summary Report of Remediation System Restart at the Former Texaco Service Station, 1127 Lincoln Avenue, Alameda, California, September 29, 1994.

Environmental Bio-Systems, Initial Tank Removal Sampling and Assessment, Lewis Bay Service Station, 1127 Lincoln Avenue, Alameda, California, September 22, 1989.

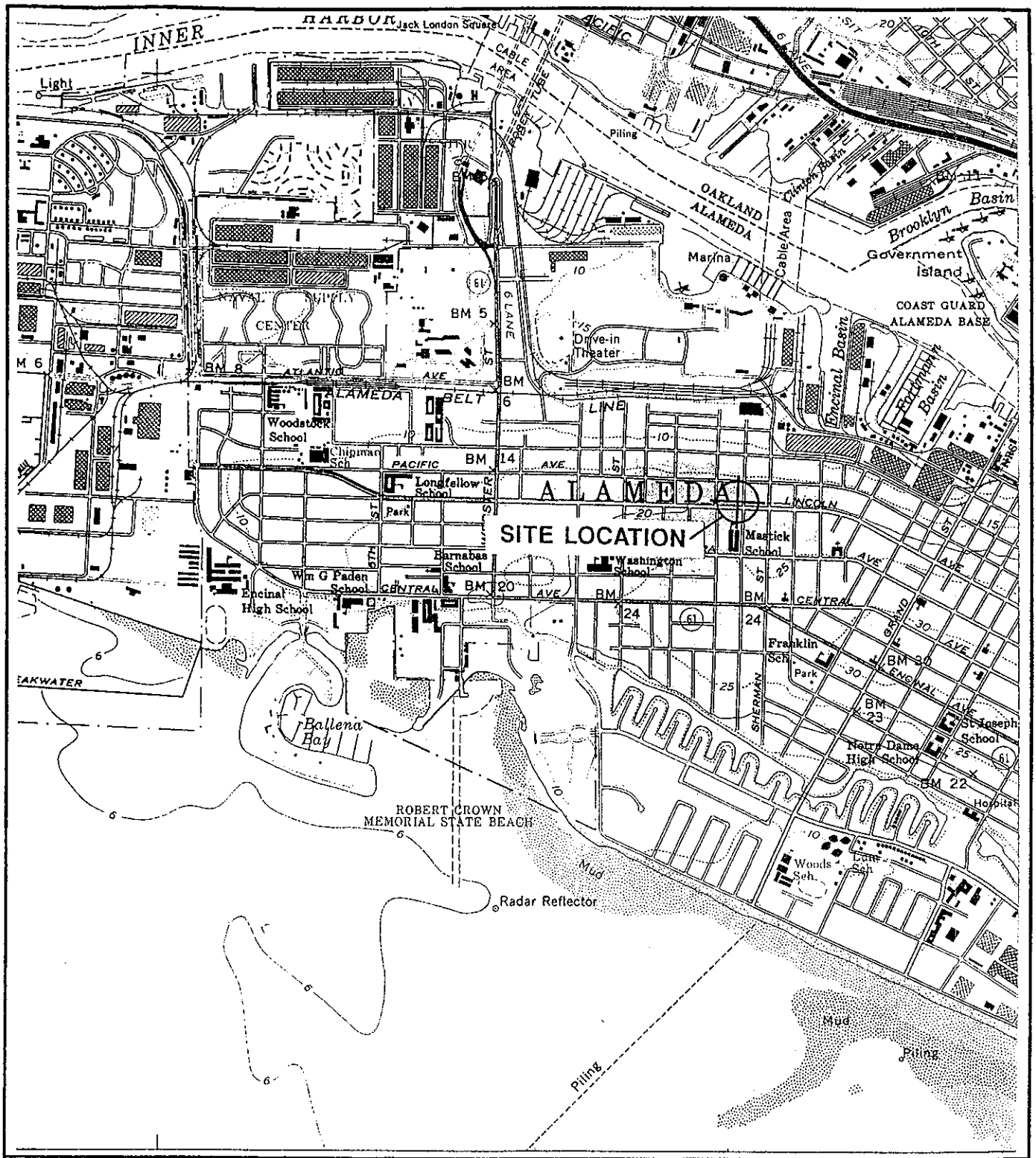
Environmental Bio-Systems, Additional Excavation Sampling and Assessment, Lewis Bay Service Station, 1127 Lincoln Avenue, Alameda, California, October 10, 1989.

Groundwater Technology, Additional Soil and Groundwater Assessment Report, Former Texaco Service Station, 1127 Lincoln Avenue, Alameda, California, July 25, 1995.

Texaco, Groundwater Monitoring and Sampling, Second Quarter, 1997 at the Former Texaco Service Station, 1127 Lincoln Avenue, Alameda, California, August 4, 1997.

ATTACHMENT A

HISTORICAL MAPS



GROUNDWATER TECHNOLOGY

SOURCE: U.S.G.S. 7.5' QUAD SHEET
OAKLAND WEST, CALIFORNIA
PHOTOREVISED 1980

N

SCALE: 0 FEET 2000

SITE LOCATION MAP

CLIENT: TEXACO REFINING & MARKETING INC.

DATE: 3/29/95

LOCATION: 1127 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

FIGURE: 1

A-1

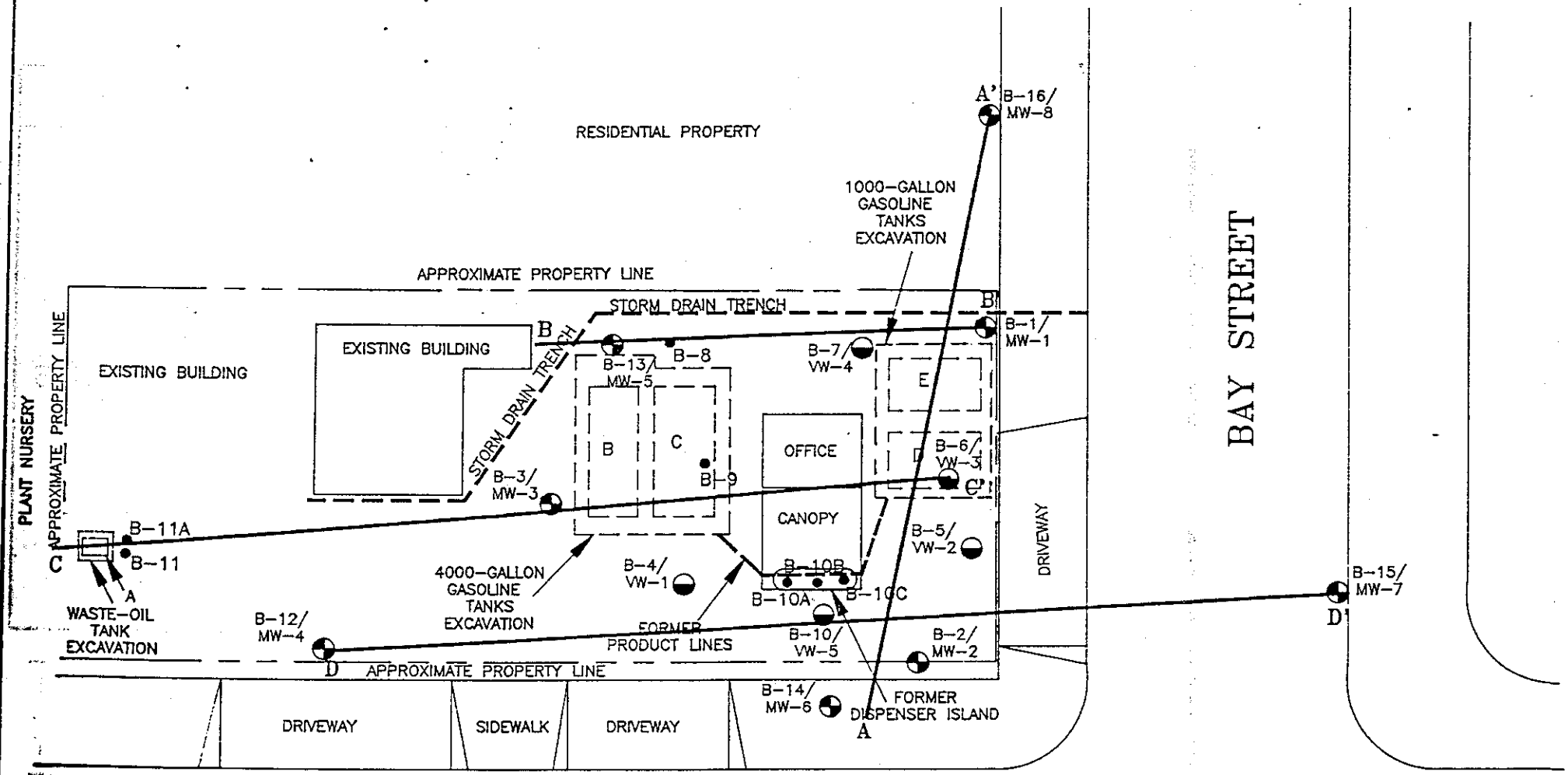

RESIDENTIAL PROPERTY
A'
B-16/
MW-8
1000-GALLON
GASOLINE
TANKS
EXCAVATION
APPROXIMATE PROPERTY LINE
STORM DRAIN TRENCH
B'
B-1/
MW-1
B
EXISTING BUILDING
B-13/
MW-5
B-8
B-7/
VW-4
E
EXISTING BUILDING
STORM DRAIN TRENCH
B
C
OFFICE
B-6/
VW-3
B-9
C'
B-3/
MW-3
CANOPY
B-5/
VW-2
PLANT NURSERY
APPROXIMATE PROPERTY LINE
B-11A
C
B-11
B-4/
VW-1
B-10B
B-10A
B-10C
DRIVEWAY
B-15/
MW-7
4000-GALLON
GASOLINE
TANKS
EXCAVATION
A
WASTE-OIL
TANK
EXCAVATION
B-12/
MW-4
FORMER
PRODUCT LINES
B-10/
VW-5
B-2/
MW-2
D
D'
APPROXIMATE PROPERTY LINE
B-14/
MW-6
FORMER
DISPENSER ISLAND
A
DRIVEWAY
SIDEWALK
DRIVEWAY
BAY STREET
LINCOLN AVENUE

TABLE 1
CUMULATIVE RESULTS OF LABORATORY ANALYSES OF SOIL SAMPLES FROM BORINGS
Former Bay Street Texaco Station
Alameda, California
(Page 2 of 2)

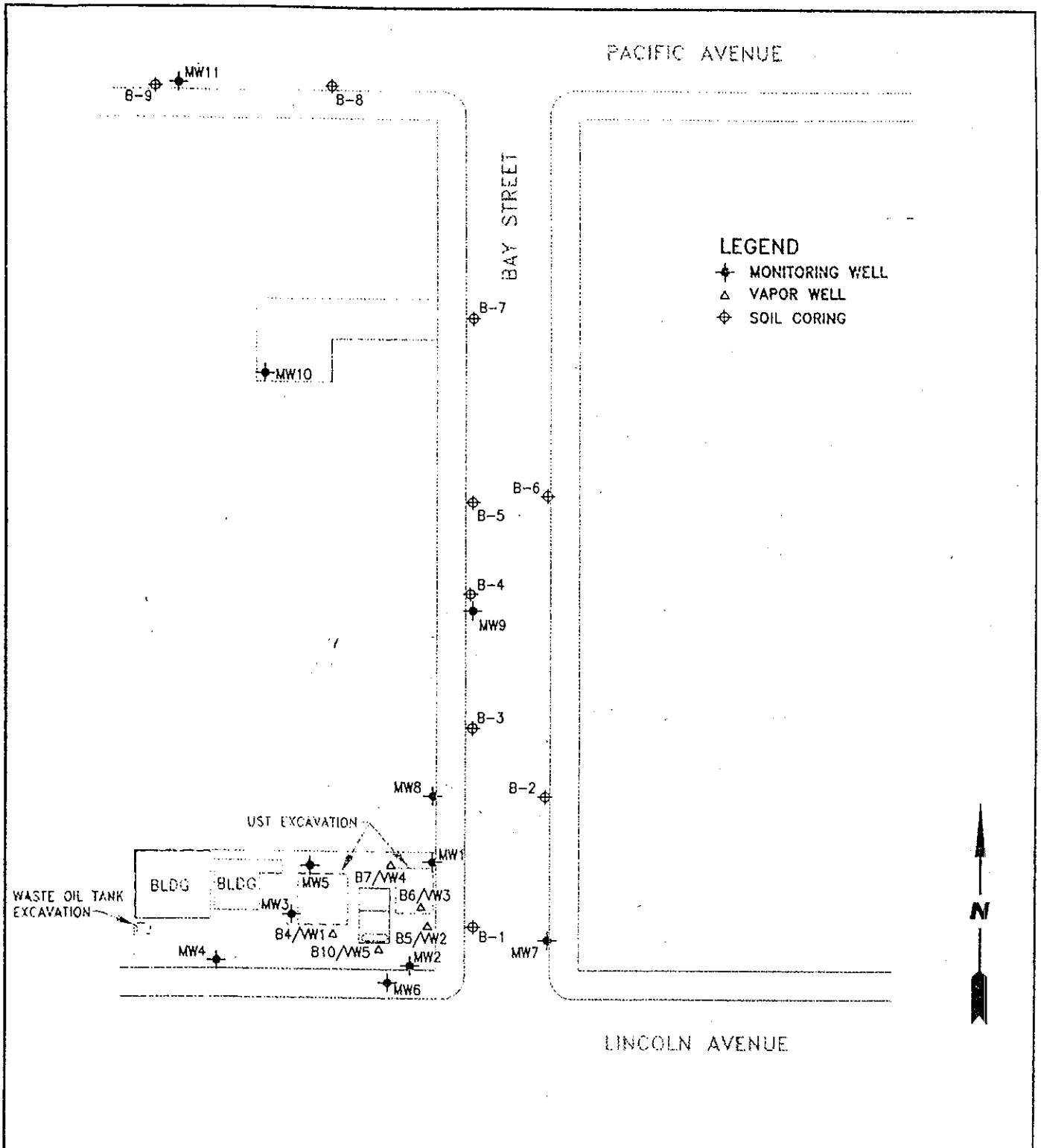
Sample Number	TPHg	B	T	E	X	TPHd	TOG	VOCs & Semi-VOCs
S-2½-B11	<1.0	<0.005	<0.005	<0.005	0.008	NA	NA	NA
S-5½-B11	<1.0	<0.005	<0.005	<0.005	0.007	<10	NA	NA
S-3½-B11A	NA	NA	NA	NA	NA	NA	<50	0.9*
S-6-B11A	NA	NA	NA	NA	NA	NA	<50	1.0*
S-5½-B12/MW4	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
S-9½-B12/MW4	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
S-5½-B13/MW5	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
S-10½-B13/MW5	21.0	0.21	0.54	1.6	7.6	NA	NA	NA
S-5½-MW6/B14	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
S-10-MW6/B14	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
S-6-MW7/B15	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
S-9½-MW7/B15	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
S-5½-B16/MW8	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
S-10½-B16/MW8	<1.0	0.051	<0.005	0.007	0.013	NA	NA	NA
S-Pile-A-D	<1.0	<0.005	<0.005	<0.005	0.010	NA	NA	NA

Sample depth measured in feet.
Results in parts per million (ppm).

NA : Not analyzed.
< : Below indicated laboratory detection limit.
TPHg : Total petroleum hydrocarbons as gasoline (analyzed by EPA Method 5030/8015).
TPHd : Total petroleum hydrocarbons as diesel (analyzed by EPA Method 3550/8015).
B : benzene, T : toluene, E : ethylbenzene, X : total xylene isomers.
BTEX : Measured by EPA Method 5030/8020.
TOG : Total oil and grease (analyzed by Standard Method 5520 E/F).
VOCs : Volatile organic compounds (analyzed by EPA Method 8010).
Semi-VOCs : Semi-volatile organic compounds (analyzed by EPA Method 8270)
(* = ND with the exception of indicated concentration of Di-N-butyl phthalate)

Sample Identification: S-6-B11A
- B11 — Boring number
- 6 — Sample depth
- S — Soil sample

MW-7 : Well number used for boring identification



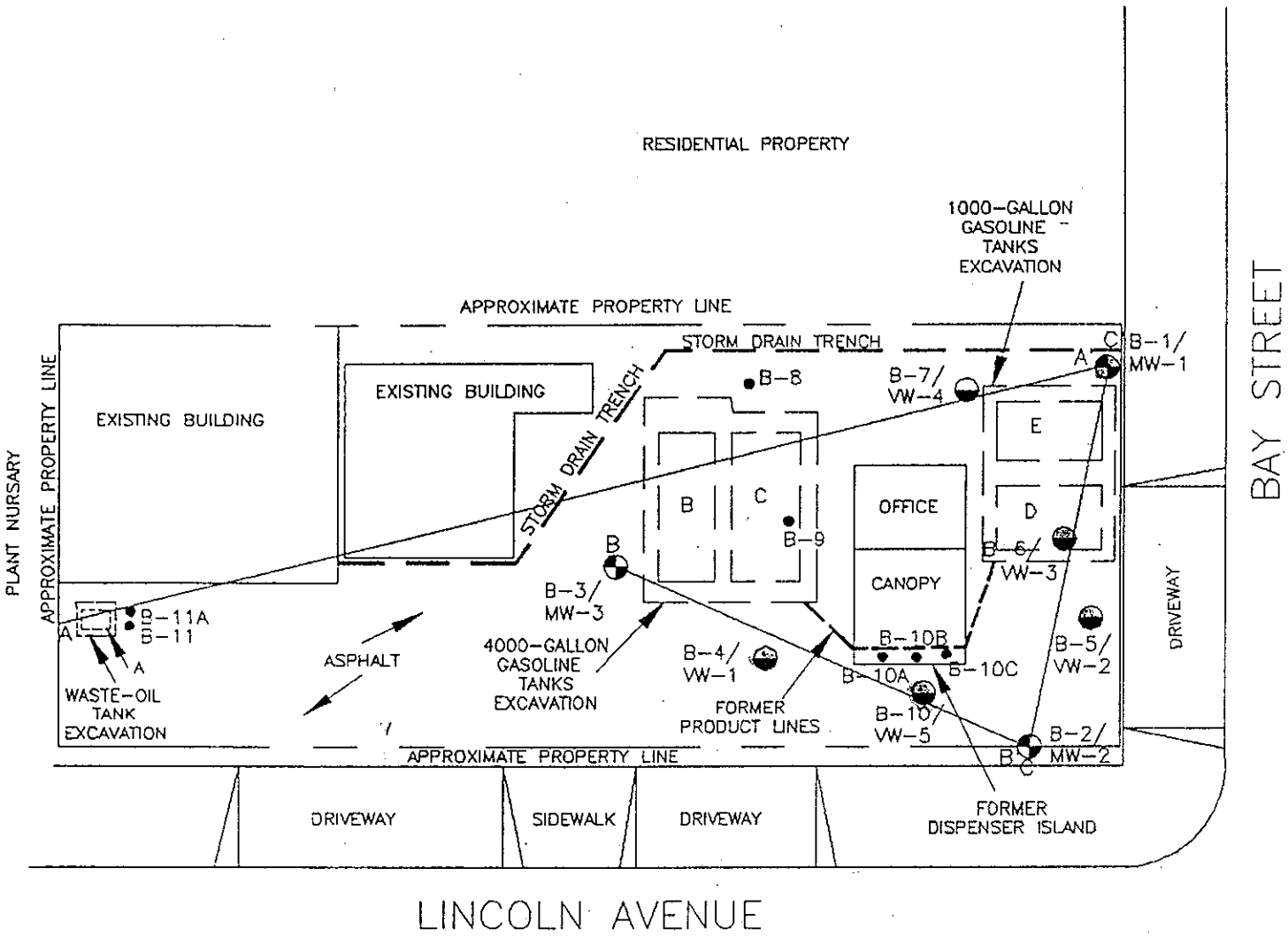
GROUNDWATER TECHNOLOGY

0 FEET 60
SCALE

SITE PLAN

CLIENT: TEXACO REFINING & MARKETING, INC.	FILE: SP695	PROJECT NO: 020200049	PM: MMC	RG/PE: [illegible]	
LOCATION: 1127 LINCOLN AVENUE ALAMEDA, CALIFORNIA	REV: 1			FIGURE: 2	
	DES: TW	DET: ML	DATE: 6/14/95		

A-2



EXPLANATION

B-10C ● = Soil boring (Applied GeoSystems, March and April 1991)

B-10/ VW-5 = Vapor monitoring/extraction well (Applied GeoSystems, March 1991)

B-3/ MW-3 = Ground-water monitoring well (Applied GeoSystems, March 1991)

C — C' = Geologic cross sections

E = Former underground storage tank locations

Approximate Scale

20 10 0 20 40

feet

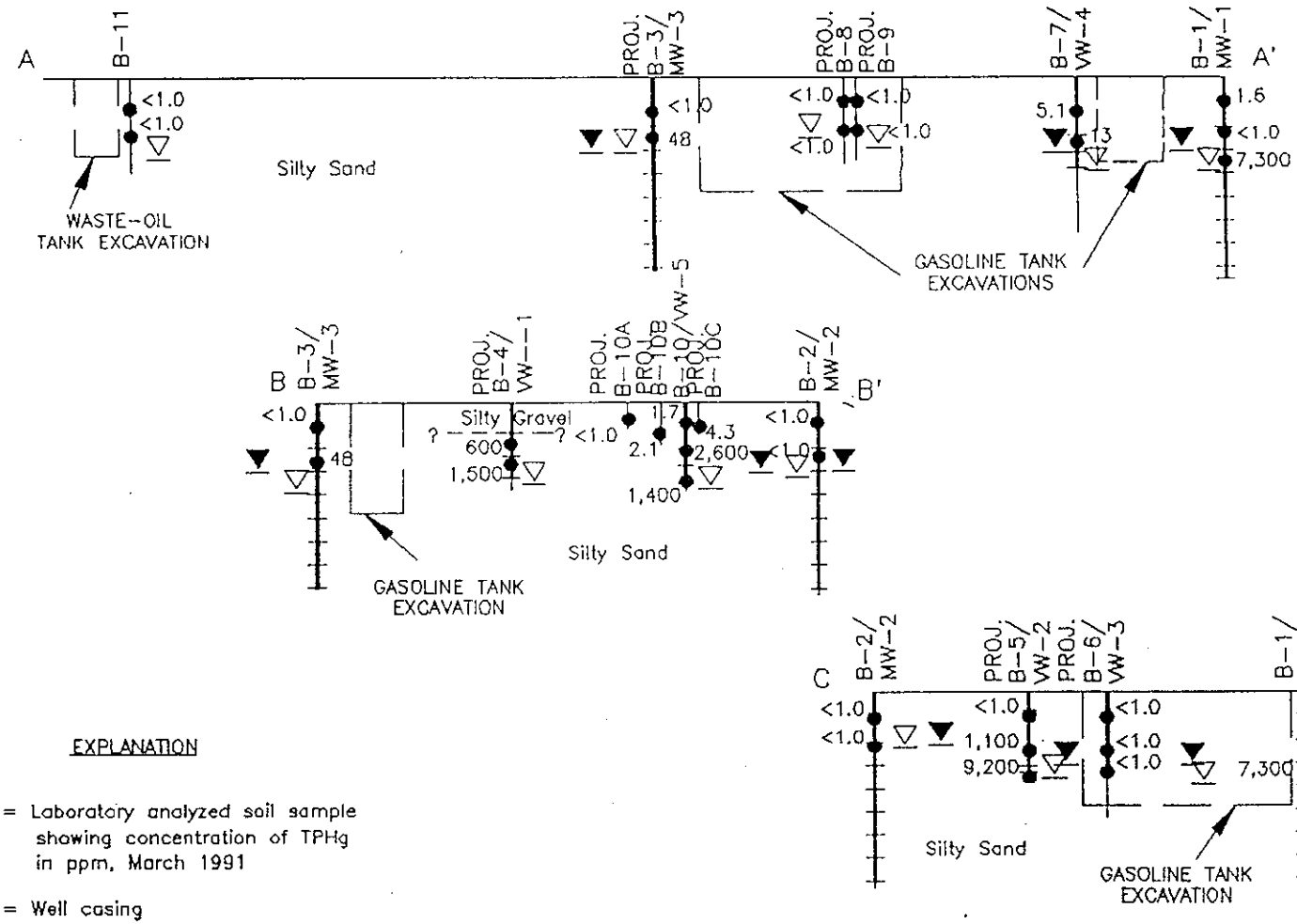
Source: Surveyed by Ron Archer, Civil Engineer, Inc. March 1991.

Applied GeoSystems

PROJECT 61006-1

GENERALIZED SITE PLAN
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California

PLATE
2
A-3



EXPLANATION

9,200 = Laboratory analyzed soil sample showing concentration of TPHg in ppm, March 1991

= Well casing

= Well screen

= Boring

= Initial water level in boring

= Static water level in well (4/4/91)

Approximate Horizontal and Vertical Scale

20 10 0 20 40

feet

the IT group

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PLATE 21 A-4

GEOLOGIC CROSS SECTION A-A', B-B', AND C-C'
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California

Applied GeoSystems

PROJECT 61006-1

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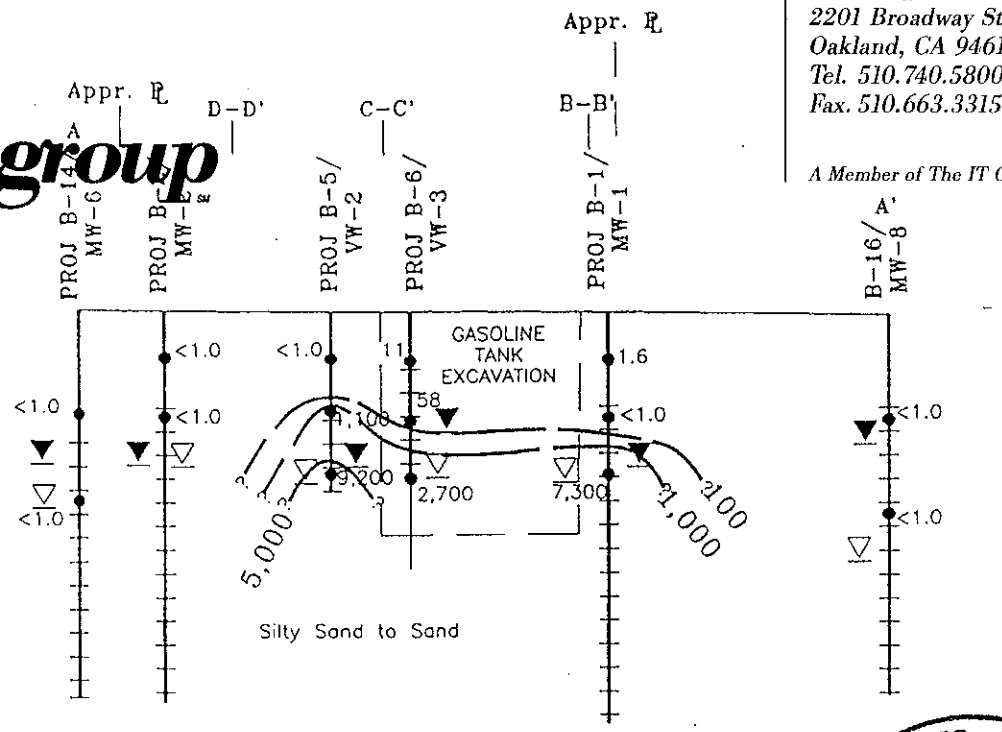
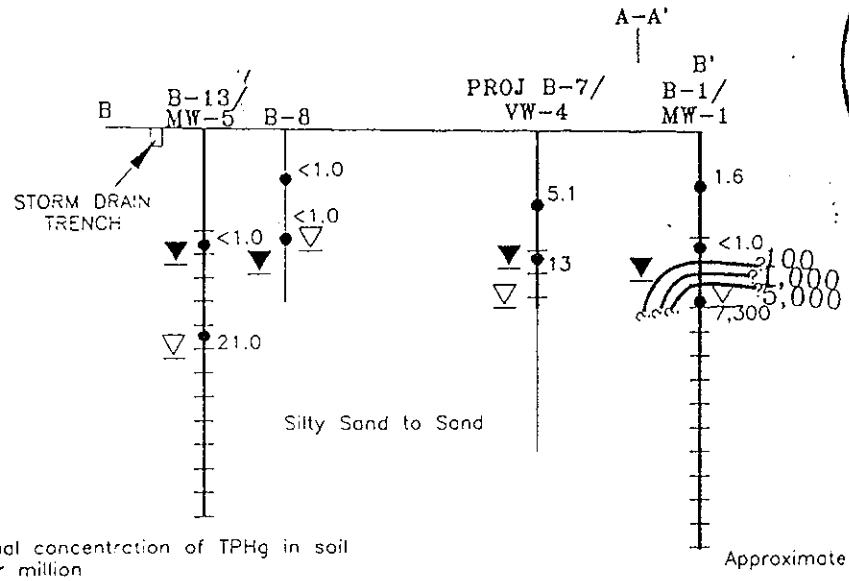
the IT group





REGISTERED GEOLOGIST
DIANE M. BARCLAY
No. EG1366
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

EXPLANATION

5,000 = Line of equal concentration of TPHg in soil in parts per million

.00 = Laboratory analyzed soil sample showing concentration of TPHg in parts per million

= Well casing

= Well screen

= Boring

= Initial water level in boring

= Static water level in well (6/25/92)

Approximate Horizontal Scale

20 10 0 20 40

feet

Approximate Vertical Scale

10 05 0 10 20

feet

RESNA
Working to Restore Nature

PROJECT 61006.04

GEOLOGIC CROSS-SECTIONS A-A' & B-B'
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California

PLATE 9 A-5

IT Corporation
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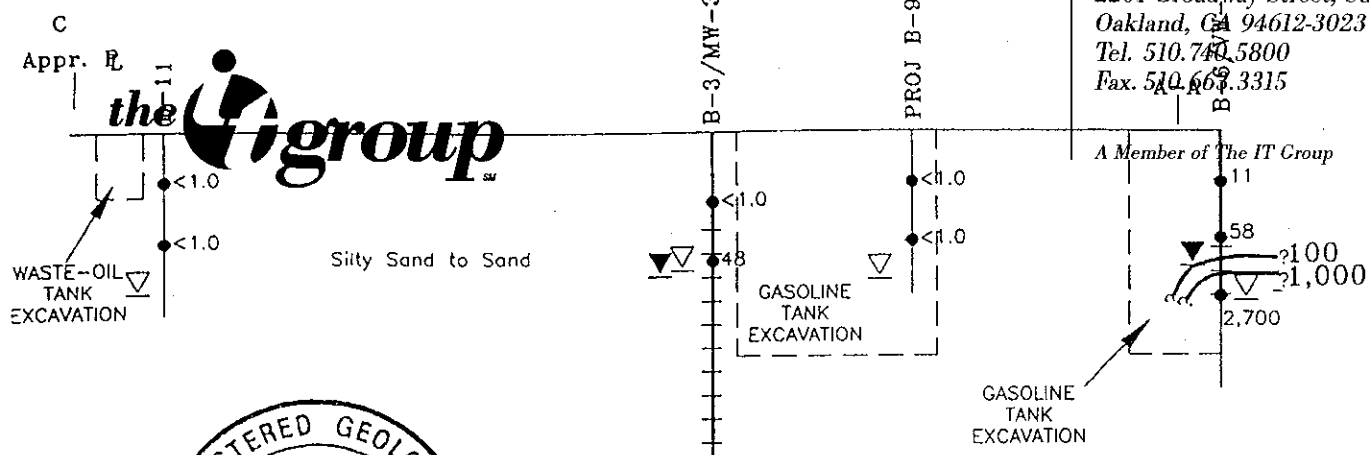
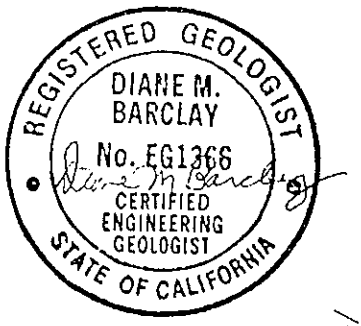
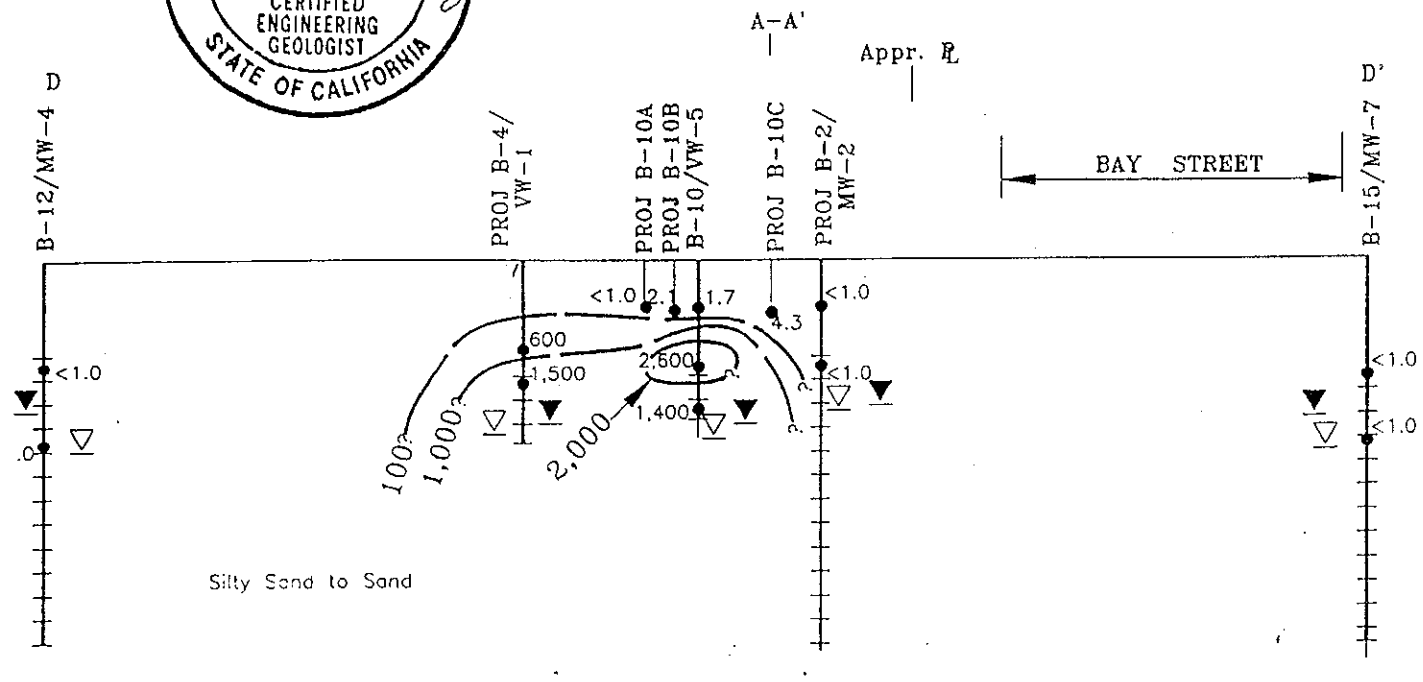
A Member of The IT Group

the IT group







EXPLANATION

2,000 = Line of equal concentration of TPHg in soil in parts per million

00 = Laboratory analyzed soil sample showing concentration of TPHg in parts per million

= Well casing

= Well screen

= Boring

= Initial water level in boring

= Static water level in well (6/25/92)

Approximate Horizontal Scale

20 10 0 20 40

feet

Approximate Vertical Scale

10 05 0 10 20

feet

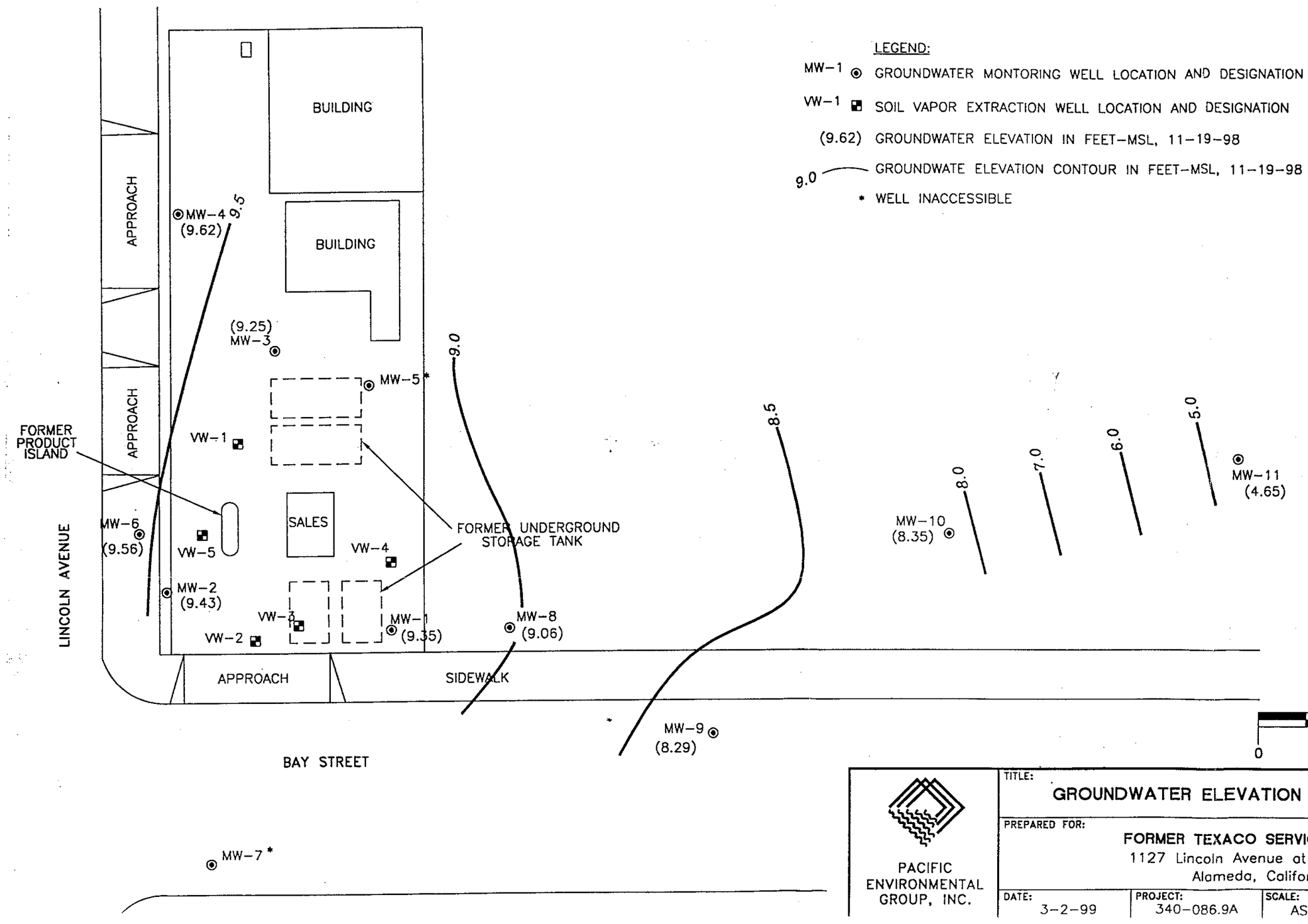
RESNA
Working to Restore Nature

PROJECT 61006.04

GEOLOGIC CROSS-SECTIONS
C-C' & D-D'
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California

PLATE
10
A-6

N



LEGEND:

MW-1 ◉ GROUNDWATER MONTORING WELL LOCATION AND DESIGNATION

VW-1 ■ SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION

(9.62) GROUNDWATER ELEVATION IN FEET-MSL, 11-19-98

9.0 GROUNDWATE ELEVATION CONTOUR IN FEET-MSL, 11-19-98

* WELL INACCESSIBLE

A-7

SCALE

0 20 40 FEET

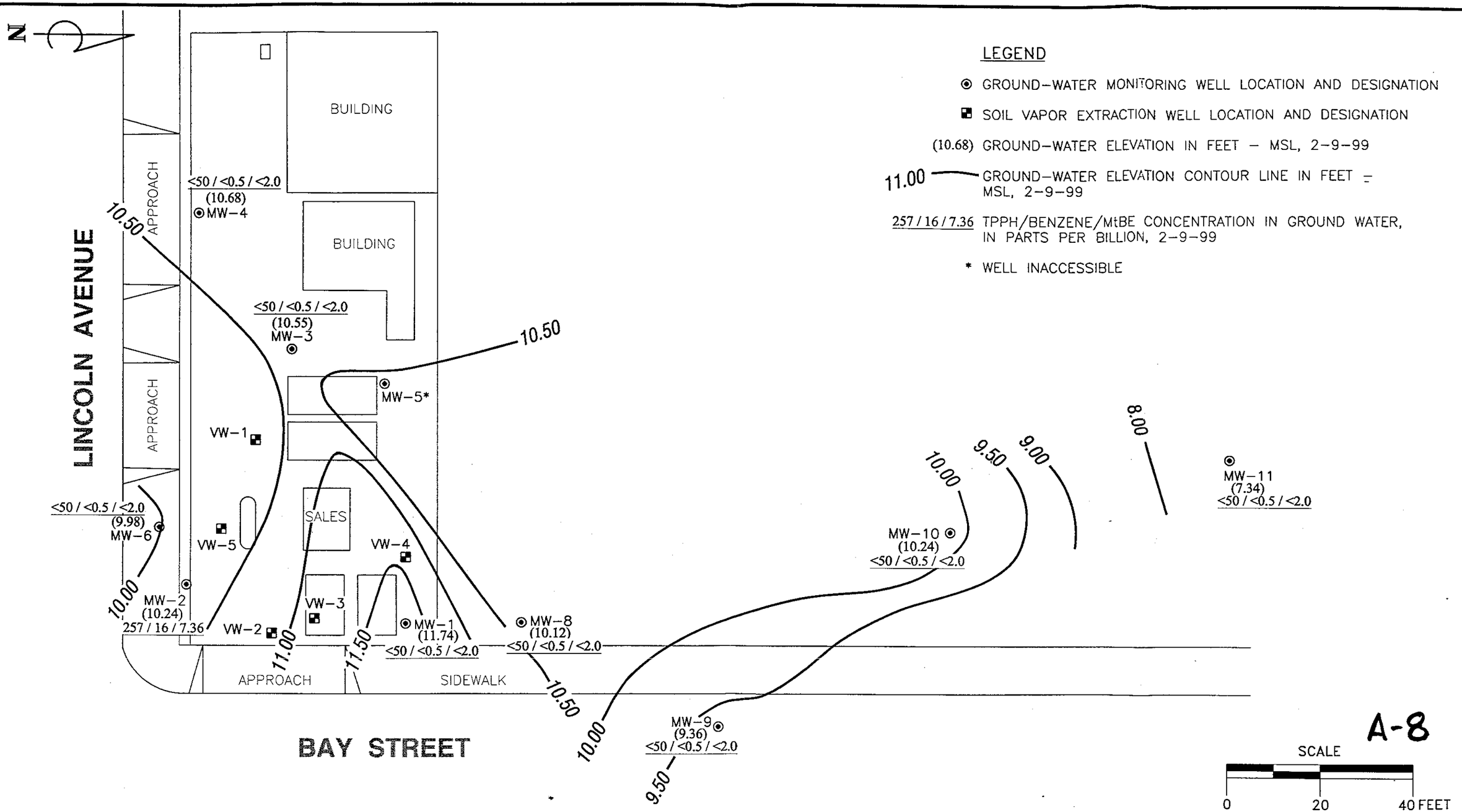
PACIFIC ENVIRONMENTAL GROUP, INC.

TITLE: GROUNDWATER ELEVATION CONTOUR MAP

PREPARED FOR:

FORMER TEXACO SERVICE STATION
1127 Lincoln Avenue at Bay Street
Alameda, California

DATE:	PROJECT:	SCALE:	FIGURE:
3-2-99	340-086.9A	AS SHOWN	1



LEGEND

- ⊙ GROUND-WATER MONITORING WELL LOCATION AND DESIGNATION
- ■ SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION
- (10.68) GROUND-WATER ELEVATION IN FEET – MSL, 2-9-99
- 11.00 GROUND-WATER ELEVATION CONTOUR LINE IN FEET – MSL, 2-9-99
- 257 / 16 / 7.36 TPPH/BENZENE/MtBE CONCENTRATION IN GROUND WATER, IN PARTS PER BILLION, 2-9-99
- * WELL INACCESSIBLE

A-8

SCALE

0 20 40 FEET

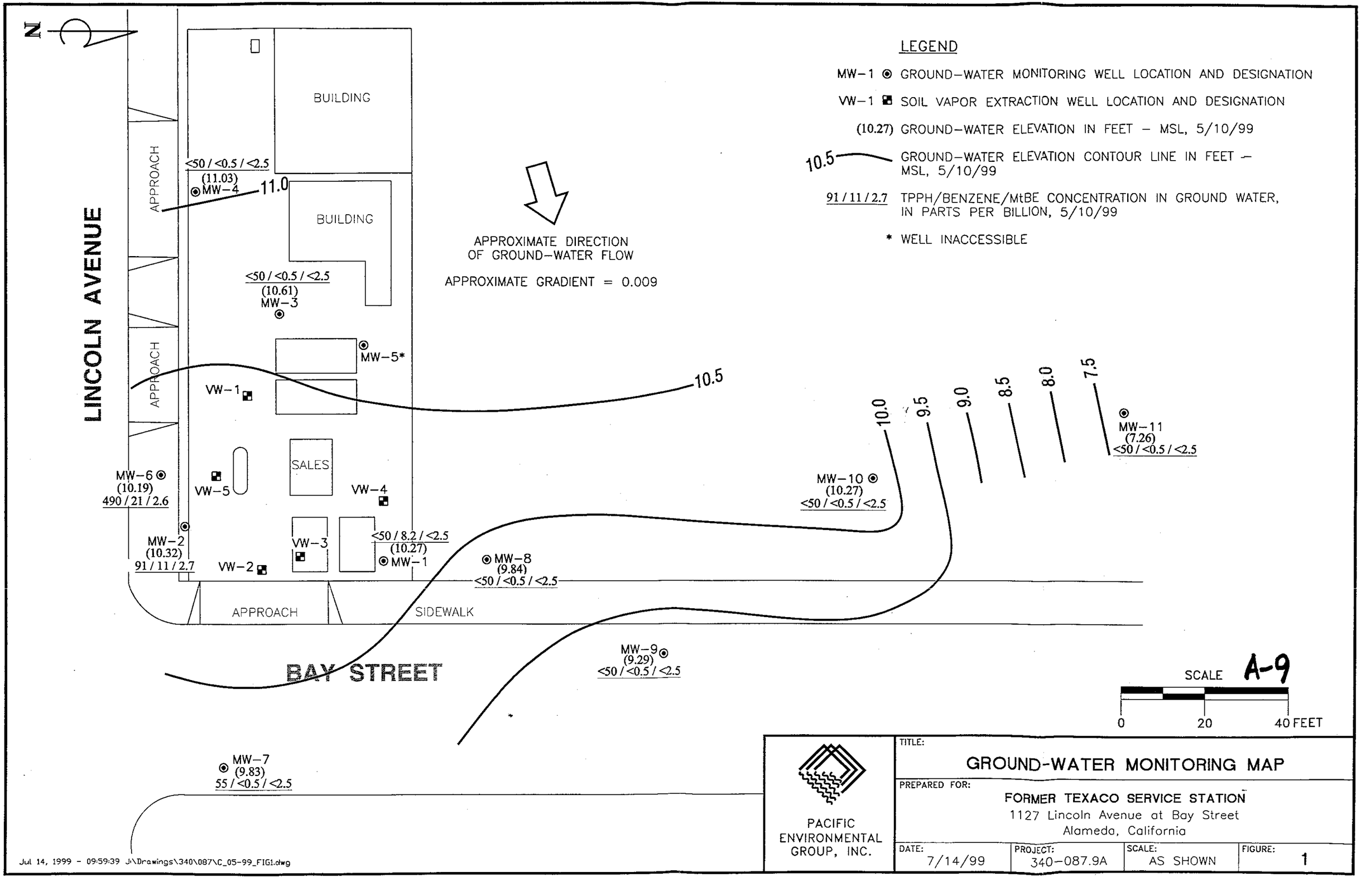
Jun 22, 1999 - 11:10:29 J:\Drawings\340\087\GMM_2-99_FIG1.dwg

PACIFIC ENVIRONMENTAL GROUP, INC.

TITLE: GROUND-WATER MONITORING MAP

PREPARED FOR: FORMER TEXACO SERVICE STATION
1127 Lincoln Avenue at Bay Street
Alameda, California

DATE:	PROJECT:	SCALE:	FIGURE:
5/25/99	340-087.9A	AS SHOWN	1



A-9

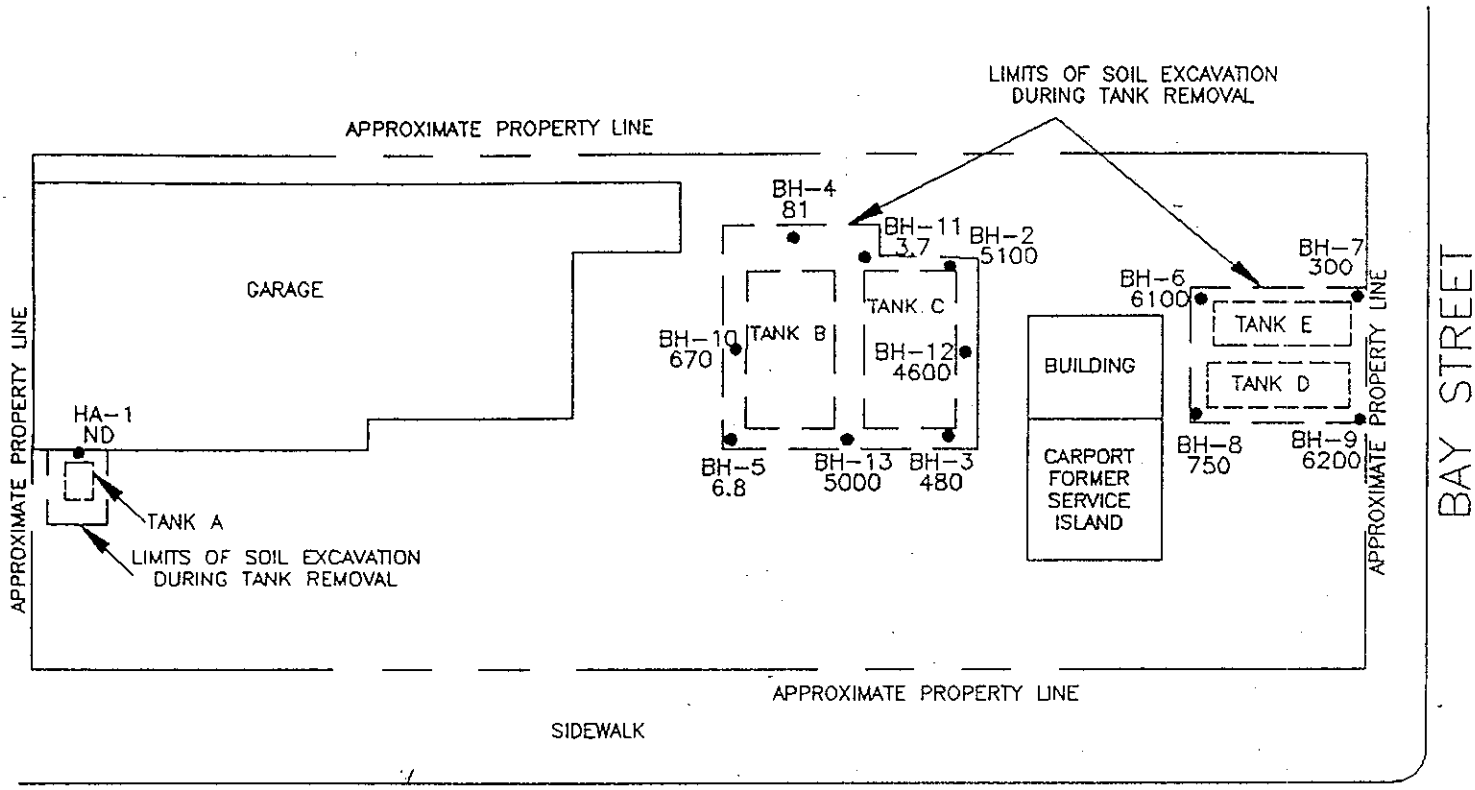
PACIFIC ENVIRONMENTAL GROUP, INC.

TITLE: GROUND-WATER MONITORING MAP

PREPARED FOR:
FORMER TEXACO SERVICE STATION
1127 Lincoln Avenue at Bay Street
Alameda, California

DATE:	PROJECT:	SCALE:	FIGURE:
7/14/99	340-087.9A	AS SHOWN	1

Jul 14, 1999 - 09:59:39 J:\Drawings\340\087\C_05-99_FIG1.dwg



LINCOLN AVENUE

EXPLANATION

HA-1 ● = Soil sampling location (Environmental-Bio-Systems, 9/11/89)

6,200 = Concentration of TPHg in ppm

ND = Not detected above reporting limit

N

Approximate Scale

30 15 0 30 60

feet

Applied GeoSystems

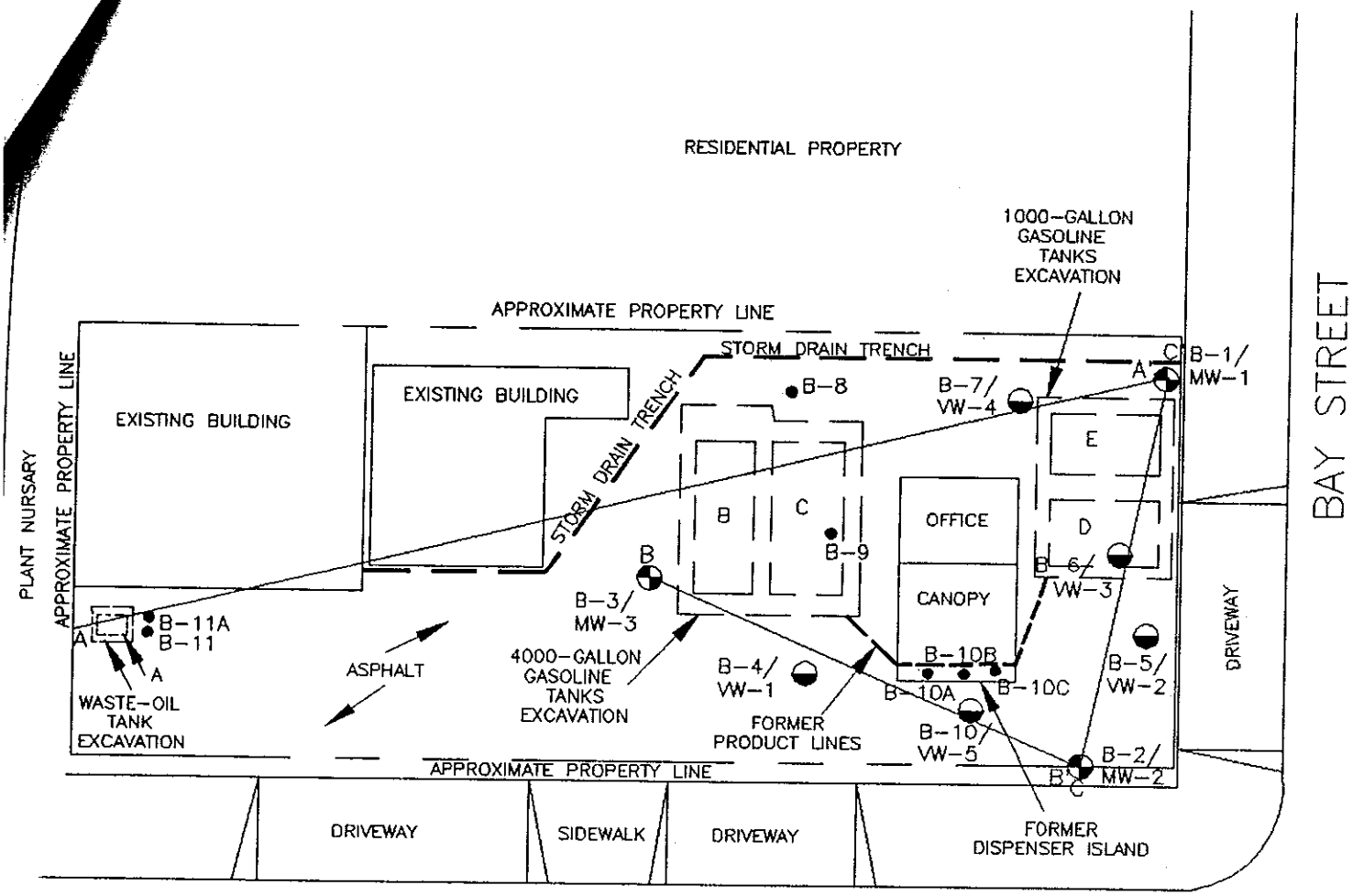
PROJECT 61006-1

TANK EXCAVATION SOIL SAMPLES
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California

PLATE

4

A-10



EXPLANATION

B-10C ● = Soil boring (Applied GeoSystems, March and April 1991)

B-10/ VW-5 = Vapor monitoring/extraction well (Applied GeoSystems, March 1991)

B-3/ MW-3 = Ground-water monitoring well (Applied GeoSystems, March 1991)

C — C' = Geologic cross sections

E = Former underground storage tank locations

N

Approximate Scale

20 10 0 20 40

feet

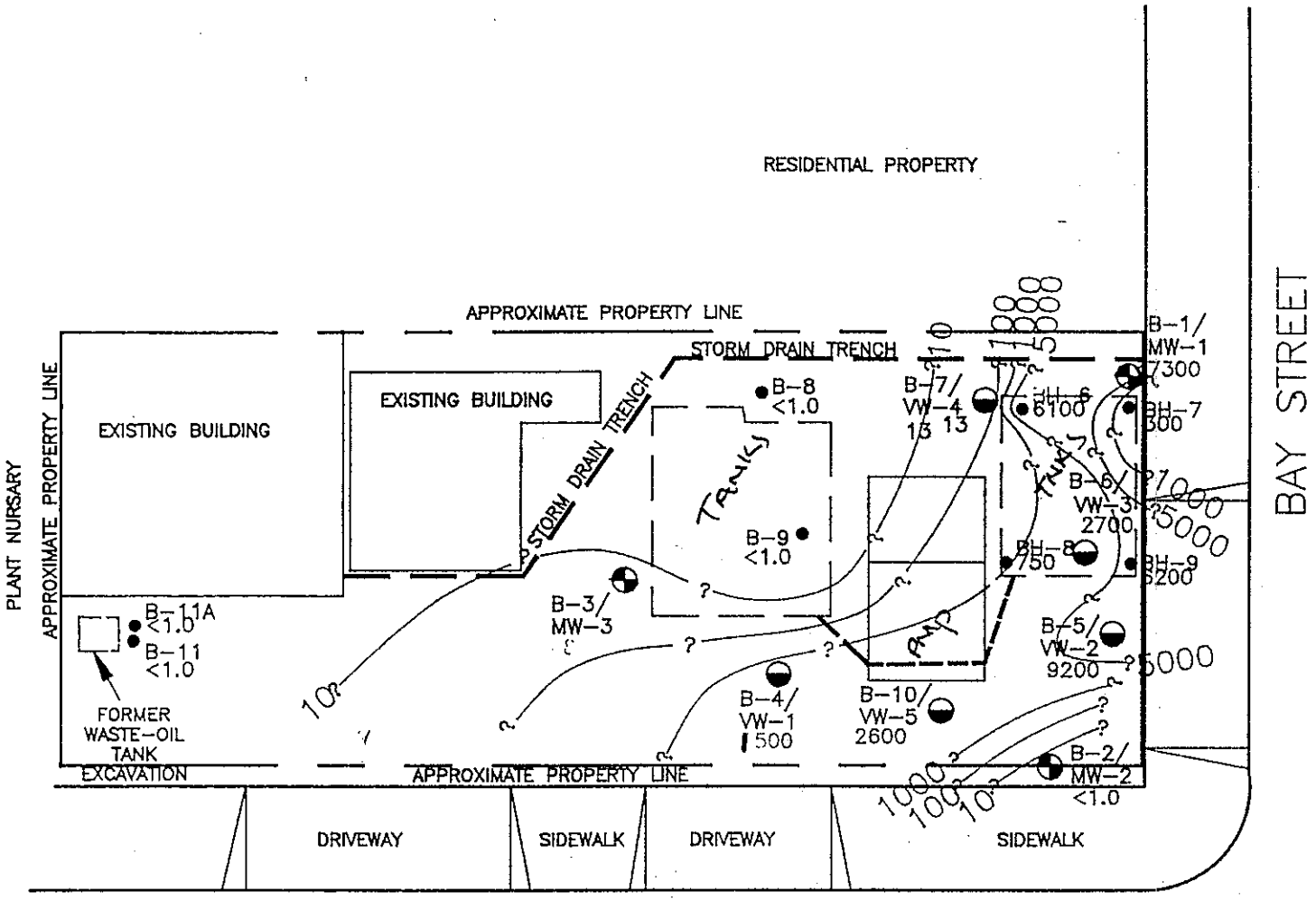
Source: Surveyed by Ron Archer, Civil Engineer, Inc. March 1991.

Applied GeoSystems

PROJECT 61006-1

GENERALIZED SITE PLAN
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California

PLATE 2



5000

EXPLANATION

= Line of equal concentration of TPHg in soil, at 5-1/2 to 8-1/2 feet

9200 = Concentration of TPHg in soil in ppm, at 5-1/2 to 8-1/2 feet, March 1991

BH-9 ● = Soil sampling locations (by Environmental-Bio-Systems, 9/11/89)

B-11A ● = Soil boring (Applied GeoSystems, March and April 1991)

B-10/ VW-5 = Vapor extraction well (Applied GeoSystems, March 1991)

B-3/ MW-3 = Monitoring well (Applied GeoSystems, March 1991)

N

Approximate Scale

20 10 0 20 40

feet

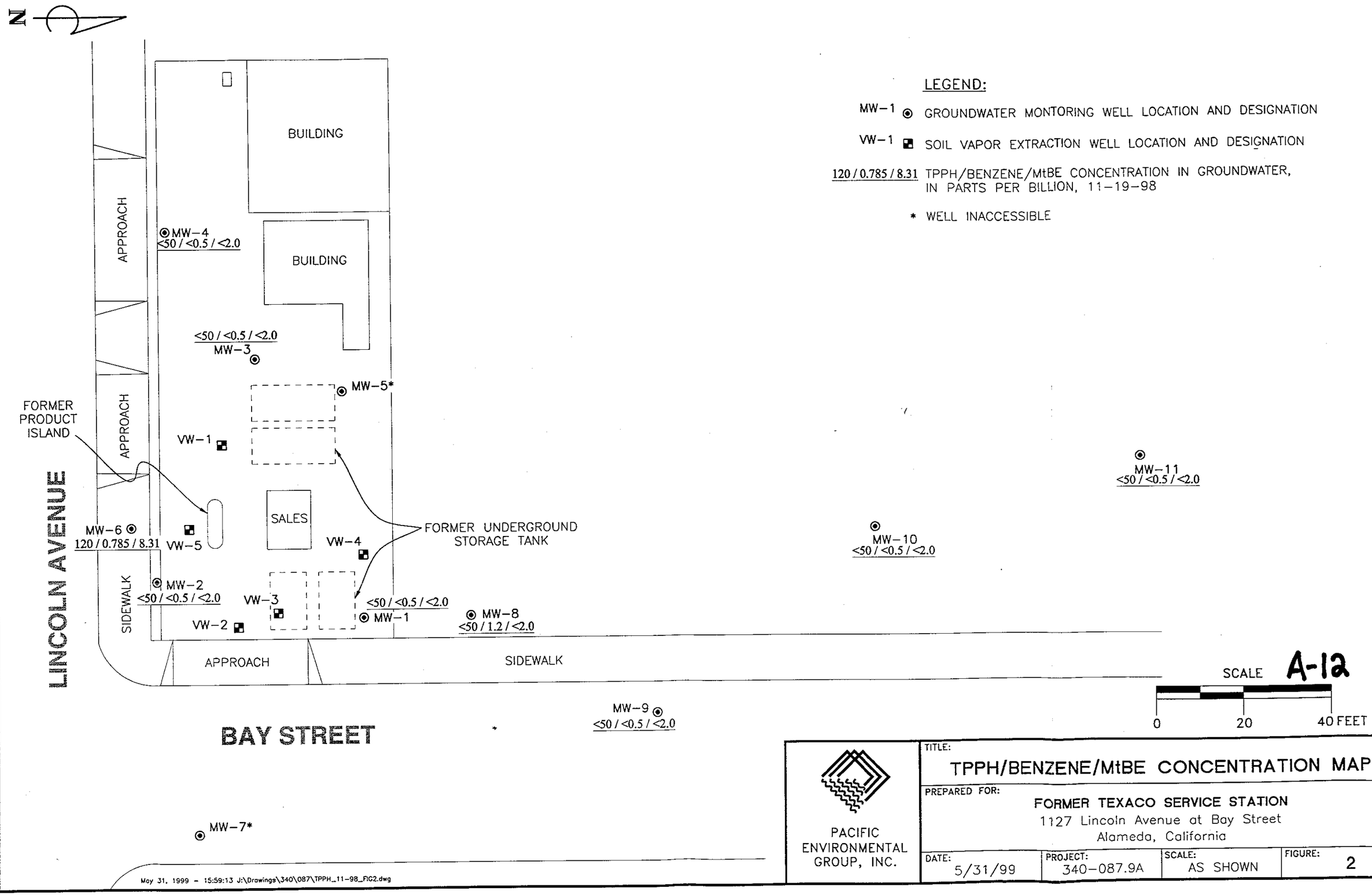
Source: Surveyed by Ron Archer, Civil Engineer, Inc. March 1991.

Applied GeoSystems

PROJECT 61006-1

TPHg IN SOIL
AT 5-1/2 to 8-1/2 Feet
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California

PLATE
23
A-11



A-12

LEGEND:

MW-1 ◉ GROUNDWATER MONTORING WELL LOCATION AND DESIGNATION

VW-1 ■ SOIL VAPOR EXTRACTION WELL LOCATION AND DESIGNATION

120 / 0.785 / 8.31 TPPH/BENZENE/MtBE CONCENTRATION IN GROUNDWATER, IN PARTS PER BILLION, 11-19-98

* WELL INACCESSIBLE

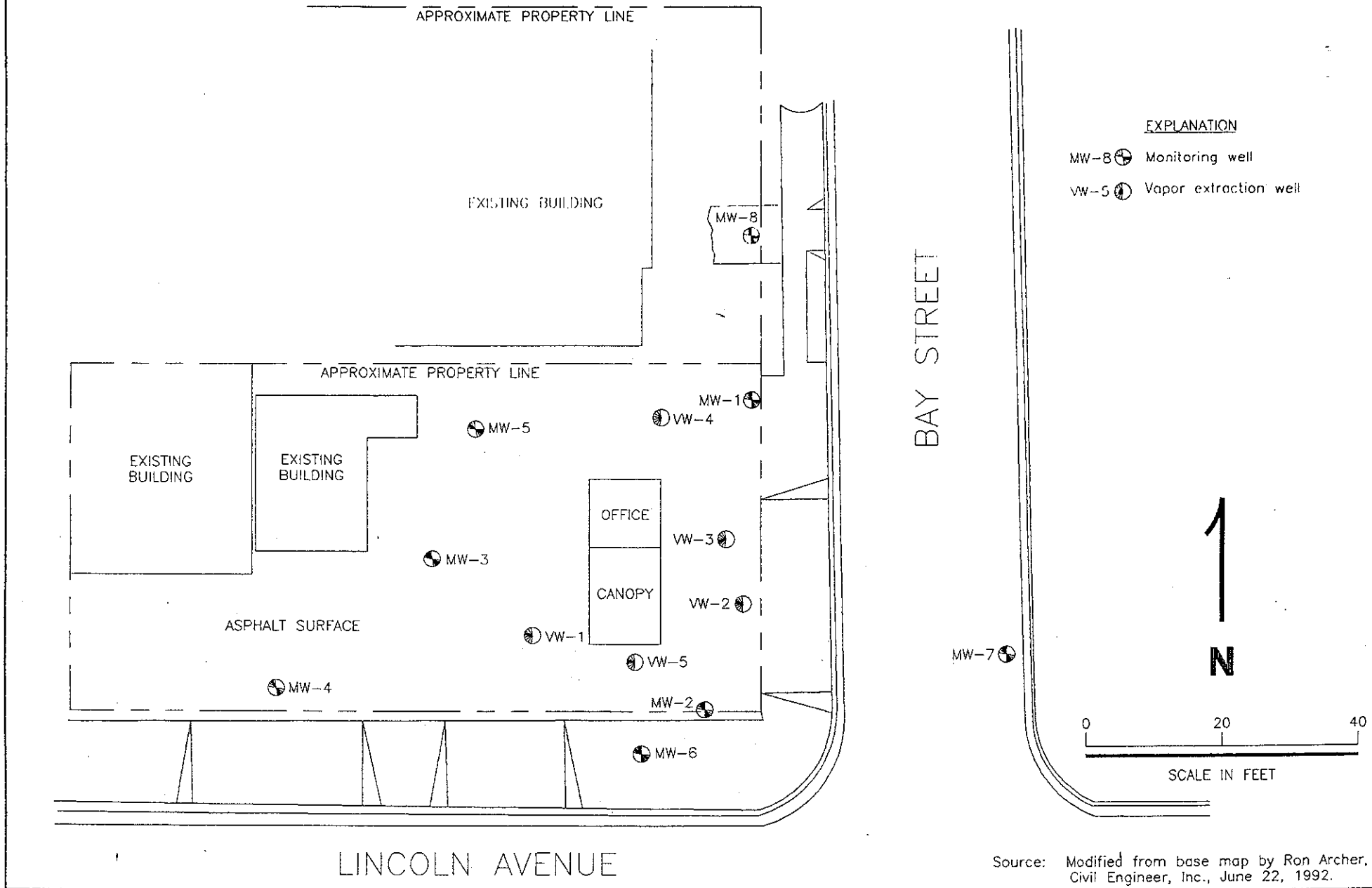
PACIFIC ENVIRONMENTAL GROUP, INC.

TITLE: TPPH/BENZENE/MtBE CONCENTRATION MAP

PREPARED FOR: FORMER TEXACO SERVICE STATION
1127 Lincoln Avenue at Bay Street
Alameda, California

DATE:	PROJECT:	SCALE:	FIGURE:
5/31/99	340-087.9A	AS SHOWN	2

May 31, 1999 - 15:59:13 J:\Drawings\340\087\TPPH_11-98_FIG2.dwg



Source: Modified from base map by Ron Archer, Civil Engineer, Inc., June 22, 1992.

CEECON
CALIFORNIA ENVIRONMENTAL ENGINEERS & CONTRACTORS

Drawing: SP-2 A-13 Date: 02/15/94

Site Plan
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California

ATTACHMENT B

HISTORICAL SOIL ANALYTICAL DATA

TABLE 1
PREVIOUS LABORATORY ANALYSES OF SOIL SAMPLES
(Source: McLaren/Hart, 1991)
Former Bay Street Texaco Station
Alameda, California
(Page 1 of 2)

INITIAL TANK PULL SAMPLES

Sample Location	Sample ID	Sample Depth	TPHg	TPHd	B	T	E	X	TOG	ACETONE
TANK A (Center)	HA-1	7.5	ND	ND	ND	ND	ND	ND	ND	0.61
TANK B (North End)	BH-4	10.5	81	NA	0.7	1.0	1.5	5.5	NA	NA
TANK B (South End)	BH-5	10.5	6.8	NA	0.3	0.5	0.3	0.8	NA	NA
TANK B (West End)	BH-10	10.0	670	NA	2.9	8.3	22	110	NA	NA
TANK B and C (South End)	BH-13	11.0	5,000	NA	21	200	150	380	NA	NA
TANK C (North End)	BH-2	11.0	5,100	NA	84	180	150	500	NA	NA
TANK C (North End)	BH-11	12.0	3.7	NA	ND	0.1	0.1	0.5	NA	NA
TANK C (South End)	BH-3	11.0	480	NA	2.0	23	11	43	NA	NA
TANK C (East End)	BH-12	11.0	4,600	NA	42	220	160	350	NA	NA
TANK D (West End)	BH-8	8.5	750	NA	15	56	21	120	NA	NA
TANK D (East End)	BH-9	8.5	6,200	NA	240	740	180	1,000	NA	NA
TANK E (West End)	BH-6	8.0	6,100	NA	93	430	140	610	NA	NA
TANK E (East End)	BH-7	8.0	300	NA	6.6	22	8.5	48	NA	NA

See Notes of Page 2 of 2.

TABLE 1
PREVIOUS LABORATORY ANALYSES OF SOIL SAMPLES
(Source: McLaren/Hart, 1991)
Former Bay Street Texaco Station
Alameda, California
(Page 2 of 2)

Sample Location	Sample ID	Sample Depth	Cadmium	Chromium	Lead	Zinc
Tank A (Center)	HA-1	7.5	<0.01	11	5	22
TTLC[1]			100	2,500	1,000	5,000
Selected Average for soils[2]			0.06	100	10	50

Sample depth in feet.
Results in parts per million.
HA: Hand auger sample.
BH: Backhoe sample.
ND: Not detected above laboratory reporting limit.
NA: Not analyzed for this compound.
1 : Total Threshold Limit Concentration, California Code of Regulations, Title 22.
2 : Lindsay, W.L., 1979, Chemical Equilibria in Soils, John Wiley & Sons.

TABLE 3
LABORATORY ANALYSES OF SOIL SAMPLES
Former Bay Street Texaco Station
Alameda, California
(Page 1 of 2)

Sample Number	TPHg	B	T	E	X	TPHd	TOG	VOCs & Semi-VOCs
S-2½-B1	1.6	0.006	0.052	0.009	0.083	NA	NA	NA
S-5½-B1	<1.0	<0.005	<0.005	<0.005	0.007	NA	NA	NA
S-8½-B1	7,300	17	350	130	630	<10	NA	NA
S-2½-B2	<1.0	<0.005	0.007	<0.005	0.023	NA	NA	NA
S-5½-B2	<1.0	<0.005	<0.005	<0.005	0.014	<10	NA	NA
S-3½-B3	<1.0	<0.005	<0.005	<0.005	0.006	NA	NA	NA
S-6½-B3	48	<0.005	<0.005	0.089	0.65	<10	NA	NA
S-4½-B4	600	<0.005	0.23	6.0	32	NA	NA	NA
S-6½-B4	1,500	0.087	10	26	130	<10	NA	NA
S-2½-B5	<1.0	0.006	0.019	0.018	0.11	NA	NA	NA
S-5½-B5	1,100	<0.005	5.1	8.1	47	<10	NA	NA
S-8½-B5	9,200	93	540	160	770	NA	NA	NA
S-2½-B6	11	0.013	0.31	0.14	0.99	NA	NA	NA
S-5½-B6	58	<0.005	1.4	0.84	4.9	<10	NA	NA
S-8½-B6	2,700	60	290	53	260	NA	NA	NA
S-3½-B7	5.1	<0.005	0.072	0.026	0.15	NA	NA	NA
S-7-B7	13	0.24	0.61	0.44	1.3	<10	NA	NA
S-2½-B8	<1.0	<0.005	0.006	<0.005	0.015	NA	NA	NA
S-5½-B8	<1.0	<0.005	<0.005	<0.005	0.010	<10	NA	NA
S-2½-B9	<1.0	<0.005	<0.005	<0.005	0.007	NA	NA	NA
S-5½-B9	<1.0	<0.005	<0.005	<0.005	0.009	<10	NA	NA
S-2½-B10	1.7	<0.005	0.017	0.027	0.14	NA	NA	NA
S-5½-B10	2,600	<0.005	12	31	160	NA	NA	NA
S-8½-B10	1,400	2.6	32	21	110	<10	NA	NA
S-2½-B10A	<1.0	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
S-3-B10B	2.1	<0.005	0.007	<0.005	0.079	NA	NA	NA
S-3-B10C	4.3	<0.005	0.023	0.14	0.55	NA	NA	NA
S-2½-B11	<1.0	<0.005	<0.005	<0.005	0.008	NA	NA	NA
S-5½-B11	<1.0	<0.005	<0.005	<0.005	0.007	<10	NA	NA
S-3½-B11A	NA	NA	NA	NA	NA	NA	<50	0.9*
S-6-B11A	NA	NA	NA	NA	NA	NA	<50	1.0*

See notes on Page 2 of 2.

TABLE 3
LABORATORY ANALYSES OF SOIL SAMPLES
Former Bay Street Texaco Station
Alameda, California
(Page 2 of 2)

Sample depth measured in feet.
Results in parts per million (ppm).

NA = Not analyzed.
< = Below indicated laboratory detection limit.
TPHg = Total petroleum hydrocarbons as gasoline (analyzed by EPA Method 5030/8015).
TPHd = Total petroleum hydrocarbons as diesel (analyzed by EPA Method 3550/8015).
B = benzene, T = toluene, E = ethylbenzene, X = total xylene isomers.
BTEX = Measured by EPA Method 5030/8020.
TOG = Total oil and grease (analyzed by Standard Method 5520 E/F).
VOCs = Volatile organic compounds (analyzed by EPA Method 8010).
Semi-VOCs = Semi-volatile organic compounds (analyzed by EPA Method 8270)
(* = ND with the exception of indicated concentration of Di-N-butyl phthalate)

Sample Identification: S-6-B11A

- B11 — Boring number
- 6 — Sample depth
- S — Soil sample

TABLE 1
Analytical Results of Soil Samples
Former Texaco Service Station
1127 Lincoln Avenue, Alameda, California
(parts per million)

Date	Sample ID	Sample Depth (ft)	Benzene	Toluene	Ethyl benzene	Total Xylenes	TPH-g
02/07/95	B1/5	5	<0.005	<0.005	<0.005	<0.005	<1
02/07/95	B1/10	10	<0.005	<0.005	<0.005	0.018	<1
02/07/95	B2/4	4	<0.005	<0.005	<0.005	<0.005	<1
02/07/95	B2/10	10	<0.005	<0.005	<0.005	<0.005	<1
02/07/95	B3/5	5	<0.005	<0.005	<0.005	<0.005	<1
02/07/95	B3/10	10	<0.005	<0.005	<0.005	<0.005	<1
02/07/95	B4/5	5	<0.005	<0.005	<0.005	<0.005	<1
02/07/95	B5/3	3	<0.005	<0.005	<0.005	<0.005	<1
02/07/95	B6/3	3	<0.005	<0.005	<0.005	<0.005	<1
02/07/95	B7/3	3	<0.005	<0.005	<0.005	<0.005	<1
02/07/95	B8/3	3	<0.005	<0.005	<0.005	<0.005	<1
02/07/95	B9/3	3	<0.005	<0.005	<0.005	<0.005	<1
05/17/95	MW-9-5	5	<0.005	<0.005	<0.005	<0.005	<1
05/17/95	MW-9-15	15	<0.005	<0.005	<0.005	<0.005	<1
05/17/95	MW-10-5	5	<0.005	<0.005	<0.005	<0.005	<1
05/17/95	MW-10-15	15	<0.005	<0.005	<0.005	<0.005	<1
05/18/95	MW-11-5	5	<0.005	<0.005	<0.005	<0.005	<1
05/18/95	MW-11-15	15	<0.005	<0.005	<0.005	<0.005	<1

ft = feet
TPH-g = Total Petroleum Hydrocarbons as gasoline

ATTACHMENT C

HISTORICAL GROUNDWATER ANALYTICAL DATA

TABLE 2
CUMULATIVE GROUND-WATER MONITORING DATA
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California

Monitoring Well	Date	Elevation of Well Casing	Depth to Water	Elevation of Ground-Water	Floating Product
MW-1	03-22-91	16.49	7.23	9.26	none
	04-04-91		6.68	9.81	none
MW-2	03-22-91	17.14	7.60	9.54	none
	04-04-91		7.07	10.07	none
MW-3	03-22-91	16.91	7.43	9.48	none
	04-04-91		6.80	10.11	none
VW-1	03-22-91	16.83	dry	dry	none
	04-04-91		6.89	9.92	none
VW-2	03-22-91	17.00	7.59	9.41	none
	04-04-91		7.04	9.96	none
VW-3	03-22-91	16.94	7.71	9.23	none
	04-04-91		6.92	10.02	none
VW-4	03-22-91	16.81	7.66	9.15	sheen
	04-04-91		inaccessible	--	--
VW-5	03-22-91	17.20	7.67	9.53	sheen
	04-04-91		inaccessible	--	--

Elevations above mean sea level.
Depth to water measured in feet below top of casing.

TABLE 4
LABORATORY ANALYSES OF GROUND-WATER SAMPLES
Former Bay Street Texaco Station
Alameda, California

Sample Number	TPHg	B	T	E	X	TPHd*	VOCs & Semi-VOCs
W-9-MW1	4,500	1,300 (1,300)	670 (640)	180 (120)	770 (830)	1,100	ND#
W-9-MW2	1,100	100 (54)	20 (5)	63 (31)	220 (130)	140	ND#
W-9-MW3	2,500	390 (480)	27 (<100)	240 (330)	780 (1,600)	770	ND#

Sample depth measured in feet.
Results in parts per billion (ppb).
ND = Below laboratory detection limit.
TPHg = Total petroleum hydrocarbons as gasoline (analyzed by EPA Method 5030).
TPHd = Total petroleum hydrocarbons as diesel (analyzed by EPA Method 3510).
* = Anametrix states: "The concentrations reported as diesel for samples W-9-MW1, W-9-MW2, and W-9-MW3 are primarily due to the presence of a lighter petroleum product, possibly gasoline."
B = benzene, T = toluene, E = ethylbenzene, X = total xylene isomers.
BTEX = Measured by EPA Method 602/(624).
TOG = Total oil and grease (analyzed by Standard Method 5520 E/F).
VOCs = Volatile organic compounds (analyzed by EPA Method 624/8240).
# = Except for BTEX, reported in parentheses.
Semi-VOCs = Semi-volatile organic compounds (analyzed by EPA Method 8270)
Sample Identification: W-9-MW3
W = Water sample
9 = Sample depth
MW3 = Monitoring well number

TABLE 2
Monitoring Data and Analytical
Results of Groundwater Samples
Former Texaco Service Station
1127 Lincoln Avenue, Alameda, California
(parts per billion)

Well ID	Date	TOC Elevation (msl)	Benzene	Toluene	Ethyl benzene	Total Xylenes	TPH-g	DTW (ft)	SPT (ft)	GWE (ft)
B1	02/07/95	--	11	95	130	710	4,400	--	--	--
B2	02/07/95	--	<0.5	<0.5	<0.5	4.3	<50	--	--	--
B3	02/07/95	--	<0.5	3.2	<0.5	<0.5	<50	--	--	--
B4	02/07/95	--	<0.5	<0.5	<0.5	<0.5	<50	--	--	--
B5	02/07/95	--	<0.5	0.67	<0.5	0.64	<50	--	--	--
B6	02/07/95	--	<0.5	<0.5	<0.5	3.7	<50	--	--	--
B7	02/07/95	--	<0.5	<0.5	<0.5	0.65	<50	--	--	--
B8	02/07/95	--	<0.5	<0.5	<0.5	7.2	90	--	--	--
B9	02/07/95	--	<0.5	<0.5	<0.5	0.80	<50	--	--	--
MW-1	05/22/95	16.14	--	--	--	--	--	--	--	--
MW-2	05/22/95	16.84	--	--	--	--	--	--	--	--
MW-3	05/22/95	16.85	--	--	--	--	--	8.54	0.00	8.31
MW-4	05/22/95	17.13	--	--	--	--	--	7.66	0.00	9.47
MW-5	05/22/95	15.58	--	--	--	--	--	--	0.00	--
MW-6	05/22/95	17.05	--	--	--	--	--	8.67	0.00	8.38
MW-7	05/22/95	16.65	--	--	--	--	--	7.35	0.00	9.30
MW-8	05/22/95	15.87	--	--	--	--	--	7.81	0.00	8.06
MW-9	05/22/95	14.44	<0.5	<0.5	<0.5	<0.5	<50	5.91	0.00	8.53
MW-10	05/22/95	15.04	0.50	<0.5	<0.5	1.2	<50	5.79	0.00	9.25
MW-11	05/22/95	10.61	<0.5	<0.5	<0.5	<0.5	<50	4.10	0.00	6.51

TOC = top of casing
msl = mean sea level
TPH-g = total petroleum hydrocarbons-as-gasoline
DTW = depth to water
SPT = separate-phase hydrocarbon thickness
GWE = groundwater elevation
ft = feet

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California
(Page 1 of 3)

Well Number / Date	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHd*	VOCs & Semi-VOCs	Dissolved Oxygen	Ethylene Glycol
MW-1									
03/22/91	4,500	1,300	670	180	770	1,100	ND	NA	NA
08/13/91	850	260	51	13	48	NA	NA	NA	NA
11/14/91	<30	<0.30	<0.30	<0.30	<0.30	NA	NA	NA	NA
02/19/92	440	14	14	2.1	9.9	NA	NA	4.0	<10
06/25/92	4,000	680	110	73	140	NA	NA	NA	NA
09/16/92	3,400	880	28	41	53	NA	NA	NA	NA
11/17/92	730	250	22	12	27	NA	NA	NA	NA
02/04/93	120	22	3.1	3.3	10	NA	NA	NA	NA
05/06/93	710	320	3.1	4.2	20	NA	NA	NA	NA
09/28/93	Not Accessible - Connected to Vapor Extraction System								
11/15/93	Not Accessible - Connected to Vapor Extraction System								
MW-2									
03/22/91	1,100	100	20	63	220	140	ND	NA	NA
08/13/91	1,100	270	4.7	16	49	NA	NA	NA	NA
11/14/91	870	56	8.9	21	46	NA	NA	NA	NA
02/19/92	2,100	57	5.6	9.1	75	NA	NA	3.2	NA
06/25/92	4,700	590	24	290	160	NA	NA	NA	NA
09/16/92	5,700	740	8	370	77	NA	NA	NA	NA
11/17/92	840	94	<0.5	93	14	NA	NA	NA	NA
02/04/93	430	45	0.5	20	30	NA	NA	NA	NA
05/06/93	2,000	460	2.4	160	66	NA	NA	NA	NA
09/28/93	Not Accessible - Connected to Vapor Extraction System								
11/15/93	Not Accessible - -Connected to Vapor Extraction System								
MW-3									
03/22/91	2,500	390	27	240	780	770	ND	NA	NA
08/13/91	1,300	180	3.8	79	200	NA	NA	NA	NA
11/14/91	870	89	9	30	82	NA	NA	NA	NA
02/19/92	990	<0.5	<0.5	2.0	72	NA	NA	3.4	NA
06/25/92	4,900	350	11	330	570	NA	NA	NA	NA
09/17/92	7,300	690	10	450	780	NA	NA	NA	NA
11/17/92	1,200	160	2.1	83	160	NA	NA	NA	NA
02/04/93	2,900	180	13	210	350	NA	NA	NA	NA
05/06/93	2,700	270	6.2	300	720	NA	NA	NA	NA
09/28/93	1,500	92	1.7	99	240	NA	NA	NA	NA
11/15/93	1,900	100	2.4	85	280	NA	NA	NA	NA

See notes on page 3 of 3.

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California
(Page 2 of 3)

Well Number / Date	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TPHd*	VOCs & Semi-VOCs	Dissolved Oxygen	Ethylene Glycol
MW-4									
06/25/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
09/17/92	98	0.6	<0.5	1.2	7.7	NA	NA	NA	NA
11/17/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
02/04/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
05/06/93	<50	1.6	<0.5	1.0	2.1	NA	NA	NA	NA
09/28/93	Not Accessible - Auto on Well								
11/15/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
MW-5									
06/25/92	18,000	310	1,200	750	2,400	NA	NA	NA	NA
09/17/92	24,000	700	2,200	900	2,400	NA	NA	NA	NA
11/17/92	14,000	1,000	1,500	730	1,900	NA	NA	NA	NA
02/04/93	NOT SAMPLED								
05/06/93	6,200	460	980	300	1,200	NA	NA	NA	NA
09/28/93	Not Accessible - Connected to Vapor Extraction System								
11/15/93	Not Accessible - Connected to Vapor Extraction System								
MW-6									
06/25/92	990	10	240	55	310	NA	NA	NA	NA
09/17/92	1,200	26	4.7	6.5	140	NA	NA	NA	NA
11/17/92	670	10	3.5	28	94	NA	NA	NA	NA
02/04/93	2,300	19	5.4	27	220	NA	NA	NA	NA
05/06/93	540	44	0.9	7.0	6.7	NA	NA	NA	NA
09/28/93	180	2.7	0.73	6.3	13	NA	NA	NA	NA
11/15/93	180	2.2	0.91	5.4	16	NA	NA	NA	NA
MW-7									
06/25/92	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
09/16/92	<50	1.3	<0.5	<0.5	0.9	NA	NA	NA	NA
11/17/92	Not Sampled								
02/04/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
05/06/93	Not Sampled								
09/28/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
11/15/93	<50	<0.5	<0.5	<0.5	<0.5	NA	NA	NA	NA
MW-8									
06/25/92	11,000	1,100	29	150	190	NA	NA	NA	NA
09/16/92	14,000	3,500	47	25	85	NA	NA	NA	NA

See notes on page 3 of 3.

TABLE 2
CUMULATIVE RESULTS OF LABORATORY ANALYSES
OF GROUNDWATER SAMPLES
Former Bay Street Texaco Station
1127 Lincoln Avenue
Alameda, California
(Page 3 of 3)

MW-8 cont.									
11/17/92	4,700	1,700	12	8.0	22	NA	NA	NA	NA
02/04/93	540	150	3.7	5.2	10	NA	NA	NA	NA
05/06/93	22,000	9,400	46	390	520	NA	NA	NA	NA
09/28/93	8,000	1,700	22	30	75	NA	NA	NA	NA
11/15/93	2,000	840	8.8	15	42	NA	NA	NA	NA
MCLs	---	1.0	---	680	1,750	---	---	---	---
DWAL	---	---	100	---	---	---	---	---	---

Results in parts per billion (ppb)

TPHg	:	Total petroleum hydrocarbons as gasoline (analyzed by EPA Method 5030).
TPHd	:	Total petroleum hydrocarbons as diesel (analyzed by EPA Method 3510).
BTEX	:	Measured by EPA Method 602/(624).
		B: benzene, T: toluene, E: ethylbenzene, X: total xylene isomers.
---	:	Not Applicable
MCLs	:	Adopted Maximum Contaminant Levels in Drinking Water, DHS (October 1990)
DWAL	:	Recommended Drinking Water Action Levels, DHS (October 1990)
ND	:	Below laboratory detection limit.
NA	:	Not Analyzed
*	:	Anametrix states: "The concentrations reported as diesel for samples W-9-MW1, W-9-MW2, and W-9-MW3 are primarily due to the presence of a lighter petroleum product, possibly gasoline."
VOCs	:	Volatile organic compounds (analyzed by EPA Method 624/8240).
Semi-VOCs	:	Semi-volatile organic compounds (analyzed by EPA Method 8270).
Dissolved Oxygen	:	Measured in parts per million (ppm).
Ethylene Glycol	:	Measured in ppm.

ATTACHMENT D

QUARTERLY MONITORING REPORT - FIRST QUARTER 2000

ATTACHMENT D

QUARTERLY MONITORING REPORT - FIRST QUARTER 2000

IT Corporation
1921 Ringwood Avenue
San Jose, CA 95131-1721
Tel. 408.453.7300
Fax. 408.437.9526

A Member of The IT Group

May 12, 2000
Project 807312 (340-087.9A)

Mr. Richard Hiett
California Regional Water Quality Control Board – San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Re: **Quarterly Monitoring Report - First Quarter 2000**
Former Texaco Service Station
1127 Lincoln Avenue at Bay Street
Alameda, California
Incident No. 90015162

Dear Mr. Hiett:

The following presents the results of the first quarter 2000 monitoring program for the site referenced above. This letter has been prepared for Equiva Services LLC (Equiva) by IT Corporation (IT), formerly Pacific Environmental Group, Inc. (PEG).

QUARTERLY MONITORING FINDINGS

Groundwater monitoring wells were gauged and sampled by Blaine Tech Services, Inc. (Blaine) at the direction of IT on February 14, 2000. Blaine's groundwater monitoring report, which includes the Well Concentrations Table (historical and current groundwater elevation and analytical results), field data, and the certified analytical report, is presented as Attachment A.

Groundwater elevation data for this sampling event are found in the Well Concentrations Table and are presented on Figure 1.

All wells sampled were analyzed for total purgeable petroleum hydrocarbons (TPPH); benzene, toluene, ethylbenzene, xylenes (BTEX compounds); and methyl tert-butyl ether (MtBE) by EPA Methods 8015 (modified) and 8020. TPPH, benzene, and MtBE concentrations are presented on Figures 2, 3, and 4, respectively.

DISCUSSION

During the first quarter 2000, monitoring and sampling of Well MW-7 was not performed due to Blaine' s inability to access the well. Blaine will attempt to monitor and sample Well MW-7 during the next quarterly event.

On December 1, 1999, an IT field geologist visited the site to investigate the integrity of Well MW-5 and found that the well had been improperly abandoned, without formal consent by Alameda County Health Services Agency (ACHSA). The well had been located under a diamond plate, which covered a 4-inch thick concrete slab. On February 7, 2000, an IT field technician jack-hammered through the concrete layer, removed the sand from the well box, and found the well capped. The cap was removed to inspect the well, which appeared to be intact. During the first quarter 2000, Well MW-5, which had been inaccessible for two years, was accessed, monitored and sampled. The well contained no detectable concentrations of TPPH, BTEX compounds or MtBE.

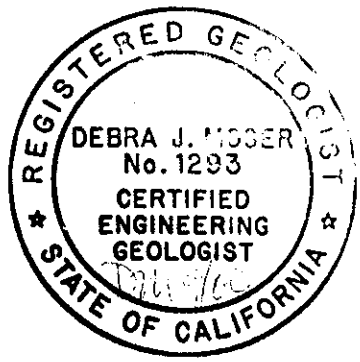
Therefore, based on non-detectable concentrations of TPPH, BTEX compounds, and MtBE in Well MW-5 (located in the vicinity of the former UST complex) and based on historical and current groundwater sampling results in all on-site and off-site wells, IT recommends that the site be considered for case closure. IT also recommends that the frequency of monitoring and sampling of Wells MW-1 through MW-3, MW-5, MW-6, and MW-8 be reduced from quarterly to semiannually in the first and third quarters. Therefore until case closure is granted, IT proposes that groundwater monitoring and sampling of all wells be performed on a semiannual basis, in the first and third quarters. IT will submit a request for case closure during the second quarter 2000.

If you have questions regarding the content of this letter, please call (408) 453-7300.

Sincerely,

IT Corporation

Debra J. Moser
Senior Geologist
CEG 1293



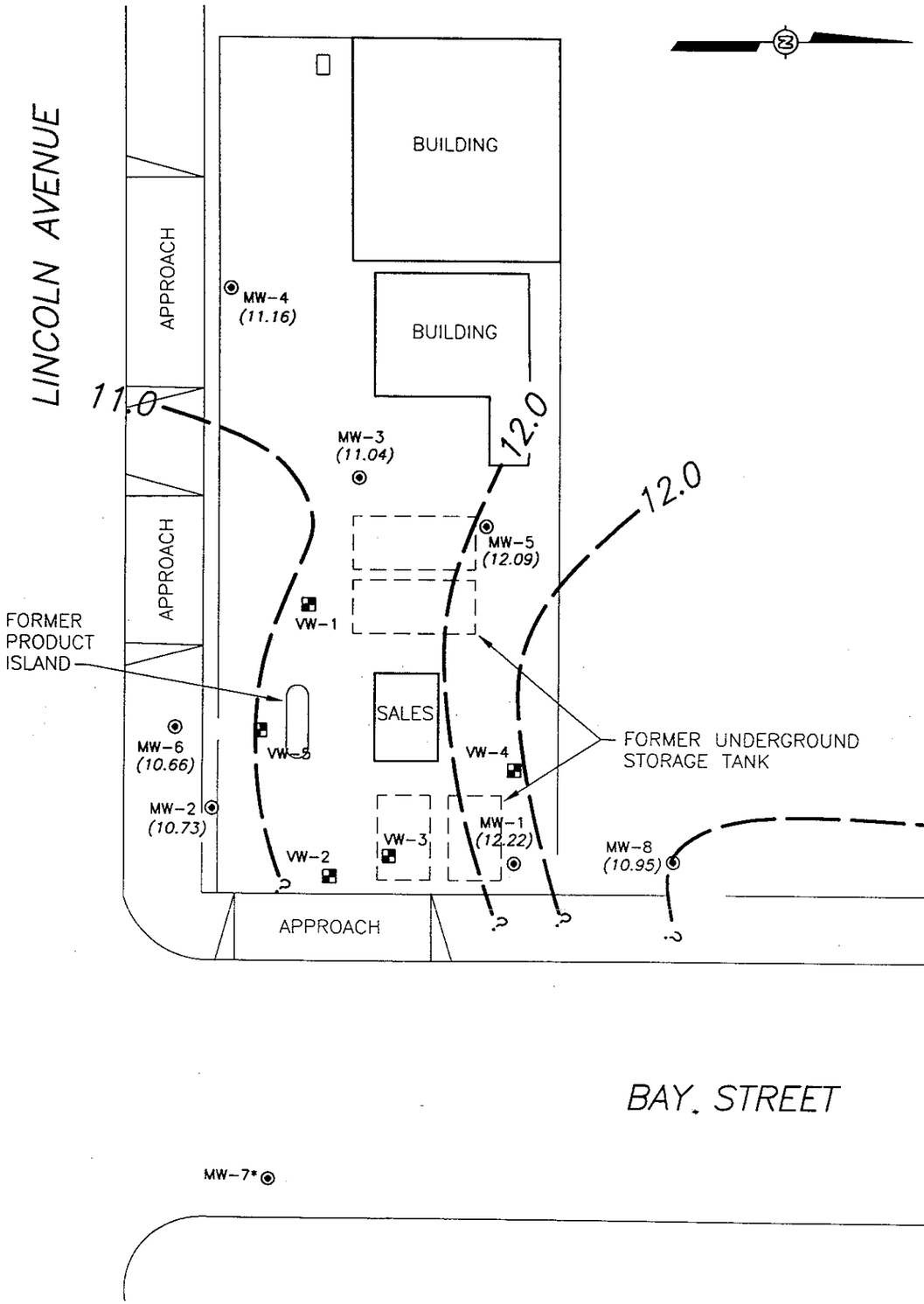
Attachments Figure 1 - Groundwater Elevation Contour Map
Figure 2 - TPPH Concentration Map
Figure 3 - Benzene Concentration Map
Figure 4 - MtBE Concentration Map
Attachment A - Groundwater Monitoring Report

cc: Ms. Karen Petryna, P.E., Equiva Services LLC, P.O. Box 7869, Burbank, CA 91510-7869
Mr. Leo Pagano, 1127 Lincoln Avenue, Alameda, CA 94602
Mr. Larry Seto, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, Alameda, CA 94502-6577

ATTACHMENT A

GROUNDWATER MONITORING REPORT

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT NUMBER
L. Wahlgren 5-5-00			340-087.9A



LEGEND

- ◉ GROUNDWATER MONITORING WELL
- ◘ SOIL VAPOR EXTRACTION WELL
- (12.22) GROUNDWATER ELEVATION (FT.-MSL); MEASURED 2-14-00
- ? — — — GROUNDWATER ELEVATION CONTOUR (FT.-MSL)
- * WELL INACCESSIBLE

NOTE: SOIL VAPOR EXTRACTION WELLS ARE NOT INCLUDED IN THE GROUNDWATER MONITORING PROGRAM.

SCALE
0 20 40 FEET

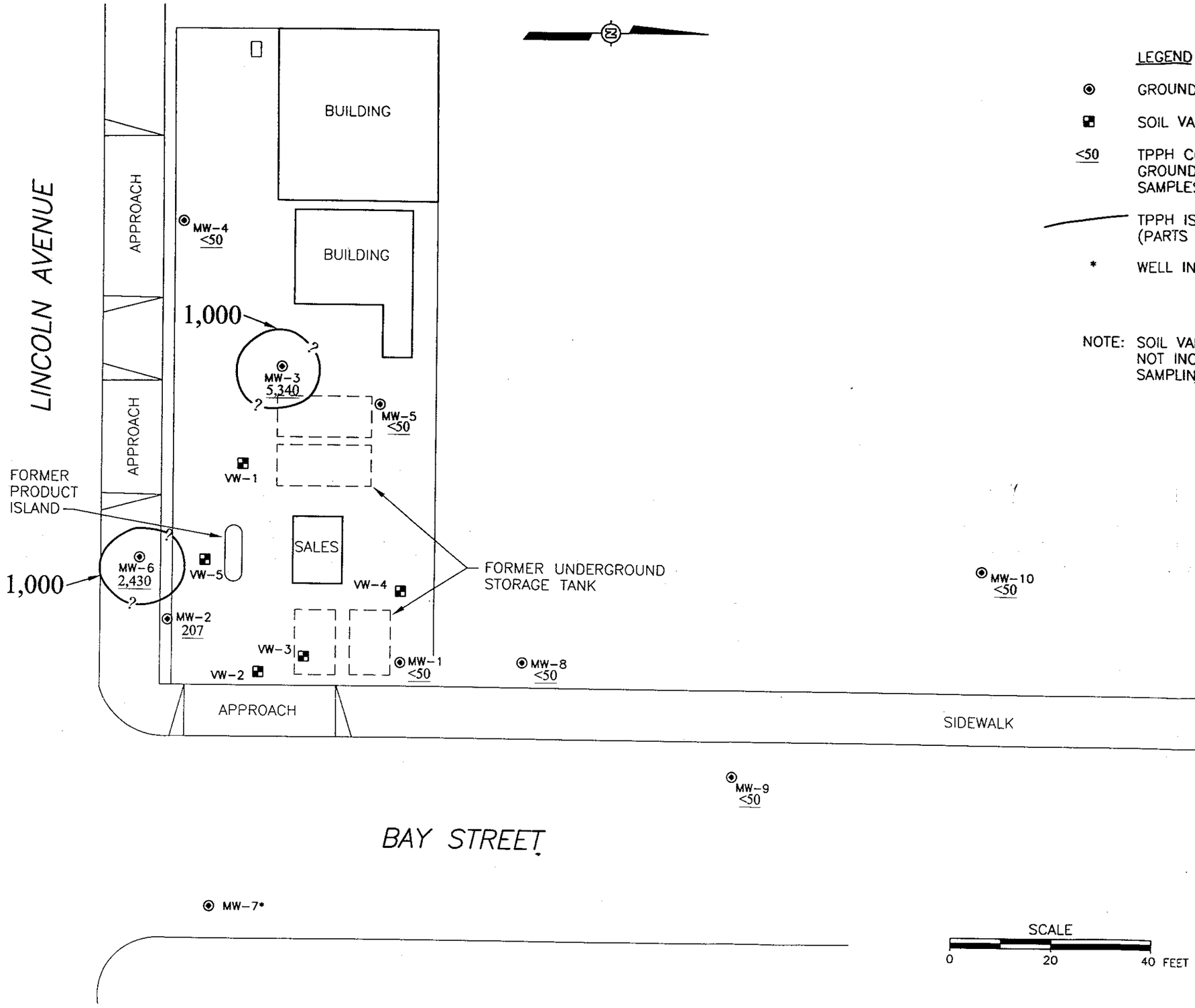
IT CORPORATION

EQUIVA SERVICES LLC
FORMER TEXACO SERVICE STATION

FIGURE-1
GROUNDWATER ELEVATION CONTOUR MAP
FIRST QUARTER 2000
1127 LINCOLN AVENUE at BAY STREET
ALAMEDA, CALIFORNIA

N:\cad\Drawings\340\087\GWC.dwg Thu, 04/May/00 02:28pm LWAHLGREN

PROJECT NUMBER	APPROVED BY	CHECKED BY	DRAWN BY
340-087.9A			L. Wahlgren 5-5-00



LEGEND

- ◉ GROUNDWATER MONITORING WELL
- ■ SOIL VAPOR EXTRACTION WELL
- <50 TPPH CONCENTRATION IN GROUNDWATER (PARTS PER BILLION); SAMPLES COLLECTED 2-14-00
- TPPH ISOCONCENTRATION CONTOUR (PARTS PER BILLION)
- * WELL INACCESSIBLE

NOTE: SOIL VAPOR EXTRACTION WELLS ARE NOT INCLUDED IN THE GROUNDWATER SAMPLING PROGRAM.

IT CORPORATION

EQUIVA SERVICES LLC
FORMER TEXACO SERVICE STATION

FIGURE 2
TPPH CONCENTRATION MAP
FIRST QUARTER 2000
1127 LINCOLN AVENUE at BAY STREET
ALAMEDA, CALIFORNIA

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LINCOLN AVENUE

APPROACH

APPROACH

APPROACH

BUILDING

BUILDING

SALES

FORMER PRODUCT ISLAND

FORMER UNDERGROUND STORAGE TANK

MW-4 <0.5

10

MW-3 14

MW-5 <0.5

VW-1

VW-5

VW-4

VW-3

VW-2

MW-6 4.87

MW-2 7.78

MW-1 <0.5

MW-8 <0.5

MW-11 <0.5

MW-10 <0.5

MW-9 <0.5

MW-7*

SIDEWALK

BAY STREET

LEGEND

- ⊙ GROUNDWATER MONITORING WELL
- ■ SOIL VAPOR EXTRACTION WELL
- <0.5 BENZENE CONCENTRATION IN GROUNDWATER (PARTS PER BILLION); SAMPLES COLLECTED 2-14-00
- BENZENE ISOCONCENTRATION CONTOUR (PARTS PER BILLION)
- * WELL INACCESSIBLE

NOTE: SOIL VAPOR EXTRACTION WELLS ARE NOT INCLUDED IN THE GROUNDWATER SAMPLING PROGRAM.

SCALE
0 20 40 FEET

IT CORPORATION

EQUIVA SERVICES LLC
FORMER TEXACO SERVICE STATION

FIGURE 3
BENZENE CONCENTRATION MAP
FIRST QUARTER 2000
1127 LINCOLN AVENUE at BAY STREET
ALAMEDA, CALIFORNIA

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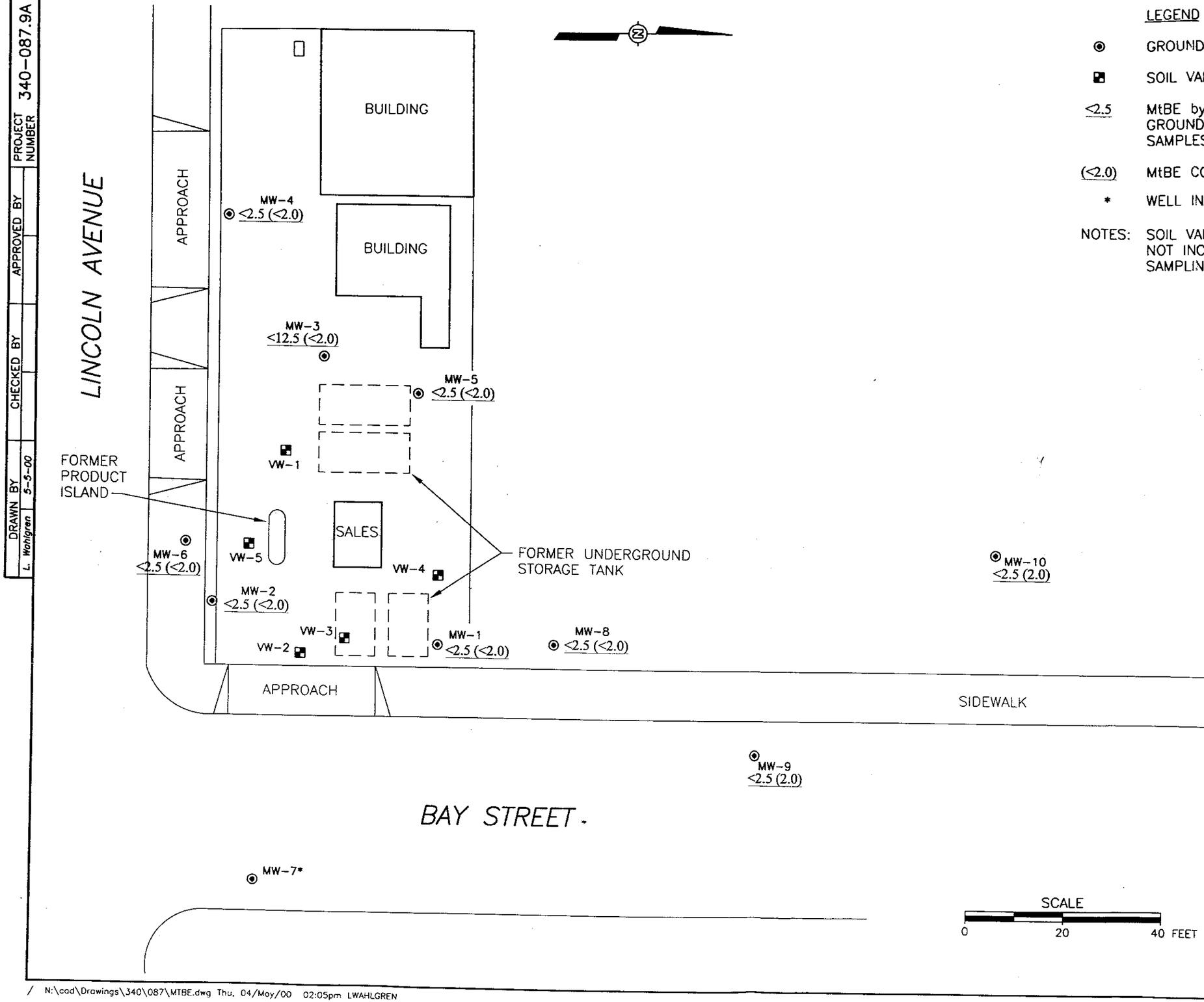
L. Wahlgren 5-5-00			340-087.9A



LEGEND

- ◉ GROUNDWATER MONITORING WELL
- ◘ SOIL VAPOR EXTRACTION WELL
- <2.5 MtBE by 8020 CONCENTRATION IN GROUNDWATER (PARTS PER BILLION); SAMPLES COLLECTED 2-14-00
- (<2.0) MtBE CONFIRMED BY EPA METHOD 8260
- * WELL INACCESSIBLE

NOTES: SOIL VAPOR EXTRACTION WELLS ARE NOT INCLUDED IN THE GROUNDWATER SAMPLING PROGRAM.

SCALE
0 20 40 FEET

IT CORPORATION

EQUIVA SERVICES LLC
FORMER TEXACO SERVICE STATION

FIGURE 4
MtBE CONCENTRATION MAP
FIRST QUARTER 2000
1127 LINCOLN AVENUE at BAY STREET
ALAMEDA, CALIFORNIA

N:\cad\Drawings\340\087\MTBE.dwg Thu, 04/May/00 02:05pm LWAHLGREN

BLAINE
TECH SERVICES

1680 ROGERS AVENUE
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CONTRACTOR'S LICENSE #746684
www.blainetech.com

APR 2 5 2000

April 14, 2000

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91510-7869

First Quarter 2000 Groundwater Monitoring at
Former Texaco Service Station
1127 Lincoln Avenue
Alameda, CA

Monitoring performed on February 14, 2000

Groundwater Monitoring Report **000214-J-1**

This report covers the routine monitoring of groundwater wells at this Former Texaco facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Shell Martinez Manufacturing Complex.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

Deidre Kerwin
Operations Manager

DK/jt

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheet

cc: Janet Yantis
Pacific Environmental Group, Inc.
1921 Ringwood Avenue
San Jose, CA 95131

WELL CONCENTRATIONS
Former Texaco Service Station
1127 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
MW-1	01/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.14	5.63	10.51	NA
MW-1	02/04/1993	120	NA	22	3.1	3.3	10	NA	NA	16.14	6.02	10.12	NA
MW-1	03/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.14	5.92	10.22	NA
MW-1	05/06/1993	710	NA	320	3.1	4.2	20	NA	NA	16.14	6.76	9.38	NA
MW-1	06/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.14	6.81	9.33	NA
MW-1	07/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.14	NA	NA	NA
MW-1	08/31/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.14	NA	NA	NA
MW-1	09/27/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.14	NA	NA	NA
MW-1	10/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.14	NA	NA	NA
MW-1	11/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.14	NA	NA	NA
MW-1	12/17/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.14	NA	NA	NA
MW-1	02/07/1994	NA	NA	NA	NA	NA	NA	NA	NA	16.14	NA	NA	NA
MW-1	05/20/1994	NA	NA	NA	NA	NA	NA	NA	NA	16.14	NA	NA	NA
MW-1	08/22/1994	NA	NA	NA	NA	NA	NA	NA	NA	16.14	7.78	8.36	NA
MW-1	11/02/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	16.14	NA	NA	NA
MW-1	02/14/1995	350	NA	40	1.6	15	31	NA	NA	16.14	15.16	0.98	NA
MW-1	05/19/1995	220	NA	35	2.4	7.2	23	NA	NA	16.14	13.90	2.24	NA
MW-1	08/22/1995	330	NA	44	1.2	14	21	<10	NA	16.14	7.06	9.08	NA
MW-1	10/25/1995	<50	NA	1.6	<0.5	<0.5	<0.5	NA	NA	16.14	NA	NA	NA
MW-1	02/09/1996	160	NA	3.2	1.5	0.9	2.7	NA	NA	16.14	NA	NA	NA
MW-1	04/11/1996	1,300	NA	300	85	25	110	NA	NA	16.14	NA	NA	NA
MW-1	08/01/1996	3,700	NA	1,100	80	46	210	NA	NA	16.14	NA	NA	NA
MW-1	11/11/1996	NA	NA	NA	NA	NA	NA	NA	NA	16.14	NA	NA	NA
MW-1	02/04/1997	NA	NA	NA	NA	NA	NA	NA	NA	16.14	5.40	10.74	NA
MW-1	05/02/1997	650	NA	63	<3	4.3	2.2	<30	NA	16.14	6.46	9.68	NA

WELL CONCENTRATIONS
Former Texaco Service Station
1127 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	SPH Thickness (ft.)
MW-1	07/31/1997	440	NA	99	1.6	2.6	5.8	<30	NA	16.14	6.98	9.16	NA
MW-1	10/30/1997	290	NA	48	0.5	0.9	1.9	<30	NA	16.14	8.00	8.14	NA
MW-1	02/04/1998	<50	NA	1.3	<0.5	<0.5	<0.5	NA	NA	16.14	3.40	12.74	NA
MW-1	05/08/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	16.14	5.09	11.05	NA
MW-1	07/21/1998	50	NA	16	<0.5	<0.5	0.7	5.6	NA	16.14	6.50	9.64	NA
MW-1	11/19/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0	NA	16.14	6.79	9.35	NA
MW-1	02/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	16.14	4.40	11.74	NA
MW-1	05/10/1999	<50	NA	8.2	<0.50	<0.50	<0.50	<2.5	NA	16.14	5.87	10.27	NA
MW-1	08/25/1999	558	NA	279	8.17	0.829	<5.00	12.7	NA	16.14	7.16	8.98	NA
MW-1	12/09/1999	<50.0	NA	1.10	0.800	0.801	5.44	<5.00	NA	16.14	6.94	9.20	NA
MW-1	02/14/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	<2.0	16.14	5.94	10.20	NA
MW-2	01/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.84	6.29	10.55	NA
MW-2	02/04/1993	430	NA	45	0.5	20	30	NA	NA	16.84	6.60	10.24	NA
MW-2	03/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.84	6.36	10.48	NA
MW-2	05/06/1993	2,000	NA	460	2.4	160	66	NA	NA	16.84	6.37	10.47	NA
MW-2	06/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.84	7.04	9.80	NA
MW-2	07/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.84	NA	NA	NA
MW-2	08/31/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.84	NA	NA	NA
MW-2	09/27/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.84	NA	NA	NA
MW-2	10/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.84	NA	NA	NA
MW-2	11/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.84	NA	NA	NA
MW-2	12/17/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.84	NA	NA	NA
MW-2	02/07/1994	NA	NA	NA	NA	NA	NA	NA	NA	16.84	NA	NA	NA
MW-2	05/20/1994	NA	NA	NA	NA	NA	NA	NA	NA	16.84	NA	NA	NA
MW-2	08/22/1994	NA	NA	NA	NA	NA	NA	NA	NA	16.84	8.08	8.76	NA

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MW-3	05/06/1993	2,700	NA	270	6.2	300	720	NA	NA	16.86	6.38	10.48	NA
MW-3	06/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.86	NA	NA	NA
MW-3	07/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.86	7.22	9.64	NA
MW-3	08/31/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.86	7.87	8.99	NA
MW-3	09/27/1993	1,800	NA	92	1.7	99	240	NA	NA	16.86	8.58	8.28	NA
MW-3	10/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.86	9.13	7.73	NA
MW-3	11/15/1993	1,900	NA	100	2.4	85	280	NA	NA	16.86	8.84	8.02	NA
MW-3	12/17/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.86	7.80	9.06	NA
MW-3	02/07/1994	1,400	NA	69	3.3	100	320	NA	NA	16.86	8.43	8.43	NA
MW-3	05/20/1994	1,100	NA	64	19	120	180	NA	NA	16.86	6.79	10.07	NA
MW-3	08/22/1994	77	NA	4.3	<0.5	2.0	5.6	NA	NA	16.86	8.32	8.54	NA
MW-3	11/02/1994	<50	NA	0.8	<0.5	<0.5	<0.5	NA	NA	16.86	10.98	5.88	NA
MW-3	02/14/1995	1,300	NA	24	5	85	360	NA	NA	16.86	7.93	8.93	NA
MW-3	05/19/1995	5,300	NA	98	28	650	1,700	NA	NA	16.86	8.44	8.42	NA
MW-3	08/22/1995	700	NA	4.1	1.1	50	72	<10	NA	16.86	7.54	9.32	NA
MW-3	10/25/1995	<50	NA	2.4	<0.5	<0.5	1.6	NA	NA	16.86	9.03	7.83	NA
MW-3	02/09/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	16.86	7.05	9.81	NA
MW-3	04/11/1996	2,000	NA	11.0	3.9	190	500	NA	NA	16.86	7.44	9.42	NA
MW-3	08/01/1996	1,500	NA	8.4	<0.5	160	150	NA	NA	16.86	7.08	9.78	NA
MW-3	11/11/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	16.86	7.84	9.02	NA
MW-3	02/04/1997	1,500	NA	12	1.3	210	330	<30	NA	16.86	5.17	11.69	NA
MW-3	05/02/1997	3,100	NA	35	<3	520	540	<30	NA	16.86	6.63	10.23	NA
MW-3	07/31/1997	1,200	NA	11	<0.5	140	100	<30	NA	16.86	7.32	9.54	NA
MW-3	10/30/1997	520	NA	6.1	<0.5	58	46	<30	NA	16.86	7.46	9.40	NA
MW-3	02/04/1998	4,800	NA	25	4.0	660	1,200	NA	NA	16.86	4.18	12.68	NA
MW-3	05/08/1998	5,600	NA	17	6.7	300	590	11	NA	16.86	5.84	11.02	NA

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MW-3	07/21/1998	1,400	NA	3.4	<1.0	110	270	<5.0	NA	16.86	6.75	10.11	NA
MW-3	11/19/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0	NA	16.86	7.61	9.25	NA
MW-3	02/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	16.86	6.31	10.55	NA
MW-3	05/10/1999	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	16.86	6.25	10.61	NA
MW-3	08/25/1999	704	NA	1.75	<1.00	76.1	84.3	15.4	NA	16.86	7.32	9.54	NA
MW-3	12/09/1999	81.1	NA	2.62	1.35	0.975	8.88	<5.00	NA	16.86	7.32	9.54	NA
MW-3	02/14/2000	5,340	NA	14.0	<2.50	520	87.1	<12.5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
MW-4	01/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.13	5.91	11.22	NA
MW-4	02/04/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	17.13	6.14	10.99	NA
MW-4	03/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.13	5.81	11.32	NA
MW-4	05/06/1993	<50	NA	1.6	<0.5	1.0	2.1	NA	NA	17.13	6.49	10.64	NA
MW-4	06/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.13	6.34	10.79	NA
MW-4	07/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.13	7.29	9.84	NA
MW-4	08/31/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.13	8.02	9.11	NA
MW-4	09/27/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.13	NA	NA	NA
MW-4	10/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.13	9.14	7.99	NA
MW-4	11/15/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	17.13	9.01	8.12	NA
MW-4	12/17/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.13	7.91	9.22	NA
MW-4	02/07/1994	<50	NA	<0.5	<0.5	<0.5	2.6	NA	NA	17.13	8.02	9.11	NA
MW-4	05/20/1994	82	NA	6.2	7.6	3.3	17	NA	NA	17.13	6.85	10.28	NA
MW-4	08/22/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	17.13	8.48	8.65	NA
MW-4	11/02/1994	<50	NA	<0.5	0.6	<0.5	<0.5	NA	NA	17.13	10.52	6.61	NA
MW-4	02/14/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	17.13	6.99	10.14	NA
MW-4	05/19/1995	66	NA	0.8	0.6	0.9	3.6	NA	NA	17.13	7.61	9.52	NA
MW-4	08/22/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	<10	NA	17.13	7.62	9.51	NA

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MW-4	10/25/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	17.13	8.62	8.51	NA
MW-4	02/09/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	17.13	6.60	10.53	NA
MW-4	04/11/1996	NA	NA	NA	NA	NA	NA	NA	NA	17.13	6.54	10.59	NA
MW-4	08/01/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	17.13	7.04	10.09	NA
MW-4	11/11/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	17.13	7.95	9.18	NA
MW-4	02/04/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	17.13	5.24	11.89	NA
MW-4	05/02/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	17.13	6.61	10.52	NA
MW-4	07/31/1997	<50	NA	7.2	<0.5	0.7	2.0	<30	NA	17.13	7.40	9.73	NA
MW-4	10/30/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	17.13	7.52	9.61	NA
MW-4	02/04/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	17.13	4.28	12.85	NA
MW-4	05/08/1998	<100	NA	<1.0	<1.0	<1.0	<1.0	<5.0	NA	17.13	5.74	11.39	NA
MW-4	07/21/1998	<50	NA	2.0	2.2	1.2	6.3	<2.5	NA	17.13	6.75	10.38	NA
MW-4	11/19/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0	NA	17.13	7.51	9.62	NA
MW-4	02/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	17.13	6.45	10.68	NA
MW-4	05/10/1999	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	17.13	6.10	11.03	NA
MW-4	08/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	17.13	7.32	9.81	NA
MW-4	12/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	17.13	7.17	9.96	NA
MW-4	02/14/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	<2.0				
MW-5	01/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	02/04/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	03/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.59	5.45	10.14	NA
MW-5	05/06/1993	6,200	NA	460	980	300	1,200	NA	NA	15.59	6.00	9.59	NA
MW-5	06/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.59	7.81	7.78	NA
MW-5	07/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	08/31/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA

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MW-5	09/27/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	10/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	11/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	12/17/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	02/07/1994	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	05/20/1994	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	08/22/1994	NA	NA	NA	NA	NA	NA	NA	NA	15.59	7.27	8.32	NA
MW-5	11/02/1994	5,700	NA	800	400	4.7	600	NA	NA	15.59	NA	NA	NA
MW-5	02/14/1995	1,300	NA	290	76	21	140	NA	NA	15.59	NA	NA	NA
MW-5	05/19/1995	600	NA	83	20	5.7	33	NA	NA	15.59	11.55	4.04	NA
MW-5	08/22/1995	8,100	NA	650	720	54	1,700	<50	NA	15.59	6.02	9.57	NA
MW-5	10/25/1995	1,500	NA	290	85	15	170	NA	NA	15.59	11.05	4.54	NA
MW-5	02/09/1996	1,000	NA	120	49	26	130	NA	NA	15.59	6.70	8.89	NA
MW-5	04/11/1996	210	NA	5.7	<0.5	9.2	22	NA	NA	15.59	12.21	3.38	NA
MW-5	08/01/1996	86	NA	<0.5	<0.5	<0.5	5.3	NA	NA	15.59	2.80	12.79	NA
MW-5	11/11/1996	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	02/04/1997	NA	NA	NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	05/02/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	15.59	7.01	8.58	NA
MW-5	07/31/1997	110	NA	5.8	3.2	5.8	17	<30	NA	15.59	6.78	8.81	NA
MW-5	10/30/1997	50	NA	0.8	<0.5	0.5	5.2	<30	NA	15.59	7.69	7.90	NA
MW-5	02/04/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	05/08/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	07/21/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	11/19/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	02/09/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	03/01/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA

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MW-5	05/10/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	08/25/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	15.59	NA	NA	NA
MW-5	02/14/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.0					
MW-6	01/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.05	6.63	10.42	NA
MW-6	02/04/1993	2,300	NA	19	5.4	27	220	NA	NA	17.05	6.48	10.57	NA
MW-6	03/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.05	6.68	10.37	NA
MW-6	05/06/1993	540	NA	44	0.9	7.0	6.7	NA	NA	17.05	6.93	10.12	NA
MW-6	06/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.05	7.00	10.05	NA
MW-6	07/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.05	7.25	9.80	NA
MW-6	08/31/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.05	7.83	9.22	NA
MW-6	09/27/1993	180	NA	2.7	0.7	6.3	13	NA	NA	17.05	8.38	8.67	NA
MW-6	10/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.05	8.76	8.29	NA
MW-6	11/15/1993	180	NA	2.2	0.9	5.4	16	NA	NA	17.05	8.65	8.40	NA
MW-6	12/17/1993	NA	NA	NA	NA	NA	NA	NA	NA	17.05	7.78	9.27	NA
MW-6	02/07/1994	240	NA	2.9	1.2	3.9	7.1	NA	NA	17.05	7.90	9.15	NA
MW-6	05/20/1994	600	NA	4.5	2.2	24	66	NA	NA	17.05	6.95	10.10	NA
MW-6	08/22/1994	400	NA	3.2	1.0	7.9	40	NA	NA	17.05	8.17	8.88	NA
MW-6	11/02/1994	150	NA	1.6	1.3	6.5	27	NA	NA	17.05	10.56	6.49	NA
MW-6	02/14/1995	770	NA	4.0	2.9	42	130	NA	NA	17.05	8.08	8.97	NA
MW-6	05/19/1995	2,400	NA	6.9	11	99	350	NA	NA	17.05	8.51	8.54	NA
MW-6	08/22/1995	190	NA	1.0	1.7	5.2	18	<10	NA	17.05	7.50	9.55	NA
MW-6	10/25/1995	910	NA	5.5	3.3	50	160	NA	NA	17.05	8.61	8.44	NA
MW-6	02/09/1996	4,100	NA	3.8	10	60	270	NA	NA	17.05	7.26	9.79	NA
MW-6	04/11/1996	NA	NA	NA	NA	NA	NA	NA	NA	17.05	7.41	9.64	NA
MW-6	08/01/1996	2,200	NA	5.1	2.4	160	170	NA	NA	17.05	7.10	9.95	NA

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MW-6	11/11/1996	1,000	NA	3.7	1.5	38	1,100	<30	NA	17.05	8.04	9.01	NA
MW-6	02/04/1997	2,500	NA	21	3.1	180	320	<30	NA	17.05	6.10	10.95	NA
MW-6	05/02/1997	1,600	NA	33	1.6	92	180	<30	NA	17.05	7.07	9.98	NA
MW-6	07/31/1997	2,600	NA	8.8	5.8	140	280	<30	NA	17.05	7.43	9.62	NA
MW-6	10/30/1997	1,100	NA	3.5	<0.5	64	97	<30	NA	17.05	7.59	9.46	NA
MW-6	02/04/1998	400	NA	2.0	0.6	3.3	36	NA	NA	17.05	5.86	11.19	NA
MW-6	05/08/1998	2,100	NA	83	11	150	250	110	NA	17.05	5.79	11.26	NA
MW-6	07/21/1998	2,100	NA	65	7.4	180	380	110	NA	17.05	7.11	9.94	NA
MW-6	11/19/1998	120	NA	0.785	<0.5	<0.5	1.51	8.31	NA	17.05	7.49	9.56	NA
MW-6	02/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	17.05	7.07	9.98	NA
MW-6	05/10/1999	490	NA	21	0.80	31	62	2.6	NA	17.05	6.86	10.19	NA
MW-6	08/25/1999	977	NA	26.3	2.29	102	127	27.3	NA	17.05	7.55	9.50	NA
MW-6	12/09/1999	1,210	NA	12.3	<10.0	95.9	58.6	<100	NA	17.05	7.93	9.12	NA
MW-6	02/14/2000	2,430	NA	4.87	0.757	80.3	121	<2.50	<2.0	17.05	6.39	10.66	NA
MW-7	01/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.65	6.53	10.12	NA
MW-7	02/04/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	16.65	6.40	10.25	NA
MW-7	03/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.65	6.52	10.13	NA
MW-7	05/06/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.65	NA	NA	NA
MW-7	06/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.65	6.69	9.96	NA
MW-7	07/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.65	NA	NA	NA
MW-7	08/31/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.65	NA	NA	NA
MW-7	09/27/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	16.65	7.97	8.68	NA
MW-7	10/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.65	8.24	8.41	NA
MW-7	11/15/1993	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	16.65	8.22	8.43	NA
MW-7	12/17/1994	NA	NA	NA	NA	NA	NA	NA	NA	16.65	NA	NA	NA

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MW-7	02/07/1994	NA	NA	NA	NA	NA	NA	NA	NA	16.65	NA	NA	NA
MW-7	05/20/1994	NA	NA	NA	NA	NA	NA	NA	NA	16.65	NA	NA	NA
MW-7	08/22/1994	130	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	16.65	7.78	8.87	NA
MW-7	11/02/1994	73	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	16.65	9.70	6.95	NA
MW-7	02/14/1995	NA	NA	NA	NA	NA	NA	NA	NA	16.65	NA	NA	NA
MW-7	05/19/1995	<50	NA	<0.5	<0.5	<0.5	2.3	NA	NA	16.65	7.33	9.32	NA
MW-7	08/22/1995	400	NA	<0.5	<0.5	<0.5	0.8	<10	NA	16.65	6.72	9.93	NA
MW-7	10/25/1995	NA	NA	NA	NA	NA	NA	NA	NA	16.65	NA	NA	NA
MW-7	02/09/1996	NA	NA	NA	NA	NA	NA	NA	NA	16.65	7.06	9.59	NA
MW-7	04/11/1996	NA	NA	NA	NA	NA	NA	NA	NA	16.65	NA	NA	NA
MW-7	08/01/1996	460	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	16.65	6.94	9.71	NA
MW-7	11/11/1996	NA	NA	NA	NA	NA	NA	NA	NA	16.65	NA	NA	NA
MW-7	02/04/1997	NA	NA	NA	NA	NA	NA	NA	NA	16.65	NA	NA	NA
MW-7	05/02/1997	150	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	16.65	6.58	10.07	NA
MW-7	07/31/1997	100	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	16.65	7.04	9.61	NA
MW-7	10/30/1997	74	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	16.65	7.02	9.63	NA
MW-7	02/04/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	05/08/1998	65	NA	<0.5	<0.5	<0.5	1.0	<2.5	NA	16.65	6.22	10.43	NA
MW-7	07/21/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	16.65	7.01	9.64	NA
MW-7	11/19/1998	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	02/09/1999	Well inaccessible		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-7	05/10/1999	55	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	16.65	6.82	9.83	NA
MW-7	08/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	16.65	7.54	9.11	NA
MW-7	12/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	16.65	7.89	8.76	NA
MW-7	02/14/2000	Well inaccessible		NA	NA	NA	NA	NA	NA				

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MW-8	01/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.87	5.30	10.57	NA
MW-8	02/04/1993	540	NA	150	3.7	5.2	10.0	NA	NA	15.87	5.62	10.25	NA
MW-8	03/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.87	5.56	10.31	NA
MW-8	05/06/1993	22,000	NA	9,400	46	390	520	NA	NA	15.87	5.99	9.88	NA
MW-8	06/15/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.87	6.32	9.55	NA
MW-8	07/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.87	6.75	9.12	NA
MW-8	08/31/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.87	7.35	8.52	NA
MW-8	09/27/1993	8,000	NA	1,700	22	30	75	NA	NA	15.87	7.86	8.01	NA
MW-8	10/19/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.87	8.27	7.60	NA
MW-8	11/15/1993	2,000	NA	840	8.8	15	42	NA	NA	15.87	8.17	7.70	NA
MW-8	12/17/1993	NA	NA	NA	NA	NA	NA	NA	NA	15.87	7.14	8.73	NA
MW-8	02/07/1994	1,700	NA	460	0.6	13	5.0	NA	NA	15.87	7.26	8.61	NA
MW-8	05/20/1994	110	NA	98	1.4	1.3	3.4	NA	NA	15.87	6.17	9.70	NA
MW-8	08/22/1994	51	NA	16	<0.5	<0.5	<0.5	NA	NA	15.87	7.63	8.24	NA
MW-8	11/02/1994	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.87	10.16	5.71	NA
MW-8	02/14/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.87	7.32	8.55	NA
MW-8	05/19/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.87	7.83	8.04	NA
MW-8	08/22/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	<10	NA	15.87	6.98	8.89	NA
MW-8	10/25/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.87	8.16	7.71	NA
MW-8	02/09/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.87	4.89	10.98	NA
MW-8	04/11/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.87	8.48	7.39	NA
MW-8	08/01/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.87	6.60	9.27	NA
MW-8	11/11/1996	<50	NA	1.3	<0.5	<0.5	0.67	<30	NA	15.87	7.28	8.59	NA
MW-8	02/04/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	15.87	5.39	10.48	NA
MW-8	05/02/1997	<50	NA	1.6	<0.5	<0.5	<0.5	<30	NA	15.87	6.28	9.59	NA
MW-8	07/31/1997	960	NA	520	<0.5	2.3	6.4	<30	NA	15.87	6.84	9.03	NA

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MW-8	10/30/1997	150	NA	51	<0.5	2.5	<0.5	<30	NA	15.87	6.66	9.21	NA
MW-8	02/04/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.87	3.76	12.11	NA
MW-8	05/08/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	5.4	NA	15.87	5.48	10.39	NA
MW-8	07/21/1998	58	NA	6.8	2.5	1.2	6.6	<2.5	NA	15.87	6.50	9.37	NA
MW-8	11/19/1998	<50	NA	1.20	<0.5	<0.5	<0.5	<2.0	NA	15.87	6.81	9.06	NA
MW-8	02/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	15.87	5.75	10.12	NA
MW-8	05/10/1999	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	15.87	6.03	9.84	NA
MW-8	08/25/1999	82.5	NA	16.3	<0.500	<0.500	<0.500	<2.50	NA	15.87	7.03	8.84	NA
MW-8	12/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	15.87	7.10	8.77	NA
MW-8	02/14/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	<2.00	15.87			
MW-9	08/22/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	<10	NA	14.44	6.00	8.44	NA
MW-9	10/25/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	14.44	6.71	7.73	NA
MW-9	02/09/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	14.44	4.87	9.57	NA
MW-9	04/11/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	14.44	5.40	9.04	NA
MW-9	08/01/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	14.44	5.69	8.75	NA
MW-9	11/11/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	14.44	6.44	8.00	NA
MW-9	02/04/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	14.44	4.30	10.14	NA
MW-9	05/02/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	14.44	5.34	9.10	NA
MW-9	07/31/1997	120	NA	4.3	3.0	3.2	10	<30	NA	14.44	5.97	8.47	NA
MW-9	10/30/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	14.44	6.15	8.29	NA
MW-9	02/04/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	14.44	3.30	11.14	NA
MW-9	05/08/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	14.44	4.70	9.74	NA
MW-9	07/21/1998	75	NA	7.5	6.1	2.3	12	<2.5	NA	14.44	5.53	8.91	NA
MW-9	11/19/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0	NA	14.44	6.15	8.29	NA
MW-9	02/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	14.44	5.08	9.36	NA

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MW-9	05/10/1999	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	14.44	5.15	9.29	NA
MW-9	08/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	14.44	6.16	8.28	NA
MW-9	12/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	14.44	6.22	8.22	NA
MW-9	02/14/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	<2.0				
MW-10	08/22/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	<10	NA	15.04	6.86	8.18	NA
MW-10	10/25/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	7.91	7.13	NA
MW-10	02/09/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	4.45	10.59	NA
MW-10	04/11/1996	<50	NA	0.7	1.8	1.3	7.7	NA	NA	15.04	4.61	10.43	NA
MW-10	08/01/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	6.25	8.79	NA
MW-10	11/11/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	15.04	7.42	7.62	NA
MW-10	02/04/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	15.04	4.00	11.04	NA
MW-10	05/02/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	15.04	5.52	9.52	NA
MW-10	07/31/1997	85	NA	2.6	1.4	2.3	6.8	<30	NA	15.04	6.68	8.36	NA
MW-10	10/30/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	15.04	6.92	8.12	NA
MW-10	02/04/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	15.04	1.90	13.14	NA
MW-10	05/08/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	15.04	4.29	10.75	NA
MW-10	07/21/1998	87	NA	8.9	7.1	2.7	14	<2.5	NA	15.04	5.65	9.39	NA
MW-10	11/19/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0	NA	15.04	6.69	8.35	NA
MW-10	02/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	15.04	4.80	10.24	NA
MW-10	05/10/1999	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	15.04	4.77	10.27	NA
MW-10	08/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	15.04	6.44	8.60	NA
MW-10	12/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	15.04	5.84	9.20	NA
MW-10	02/14/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	<2.0				
MW-11	08/22/1995	<50	NA	<0.5	<0.5	<0.5	<0.5	<10	NA	10.61	5.12	5.49	NA

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MW-11	10/25/1995	NA	NA	NA	NA	NA	NA	NA	NA	10.61	NA	NA	NA
MW-11	02/09/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	10.61	2.73	7.88	NA
MW-11	04/11/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	10.61	3.00	7.61	NA
MW-11	08/01/1996	76	NA	6.8	5.3	2.7	9.1	NA	NA	10.61	4.66	5.95	NA
MW-11	11/11/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	10.61	5.85	4.76	NA
MW-11	02/04/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	10.61	2.20	8.41	NA
MW-11	05/02/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	10.61	3.95	6.66	NA
MW-11	07/31/1997	170	NA	11	4.5	6.4	19	<30	NA	10.61	5.33	5.28	NA
MW-11	10/30/1997	<50	NA	<0.5	<0.5	<0.5	<0.5	<30	NA	10.61	5.76	4.85	NA
MW-11	02/04/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	NA	NA	10.61	1.60	9.01	NA
MW-11	05/08/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	10.61	2.66	7.95	NA
MW-11	07/21/1998	160	NA	16	12	4.6	24	<2.5	NA	10.61	3.99	6.62	NA
MW-11	11/19/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0	NA	10.61	5.96	4.65	NA
MW-11	02/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.00	NA	10.61	3.27	7.34	NA
MW-11	05/10/1999	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	10.61	3.35	7.26	NA
MW-11	08/25/1999	NA	NA	NA	NA	NA	NA	NA	NA	10.61	5.14	5.47	NA
MW-11	12/09/1999	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<5.00	NA	10.61	4.42	6.19	NA
MW-11	02/14/2000	<50.0	NA	<0.500	<0.500	<0.500	<0.500	<2.50	<2.0	10.61	2.65	7.96	NA

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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015

BTEX = benzene, toluene, ethylbenzene, xylenes

MTBE = methyl-tertiary-butyl ether by EPA Method 8020

TOC = Top of Casing Elevation

SPH = Separate-Phase Hydrocarbons

GW = Groundwater

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

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MW-2	11/02/1994	NA	NA	NA	NA	NA	NA	NA	NA	16.84	NA	NA	NA
MW-2	02/14/1995	NA	NA	NA	NA	NA	NA	NA	NA	16.84	NA	NA	NA
MW-2	05/19/1995	580	NA	75	19	5.1	30	NA	NA	16.84	11.77	5.07	NA
MW-2	08/22/1995	1,200	NA	130	8.3	84	86	<10	NA	16.84	7.22	9.62	NA
MW-2	10/25/1995	350	NA	79	1.2	55	13	NA	NA	16.84	12.11	4.73	NA
MW-2	02/09/1996	<50	NA	1.5	0.5	1.1	1.5	NA	NA	16.84	NA	NA	NA
MW-2	04/11/1996	80	NA	1.5	<0.5	<0.5	<0.5	NA	NA	16.84	11.20	5.64	NA
MW-2	08/01/1996	330	NA	42	0.6	20	8.1	NA	NA	16.84	7.00	9.84	NA
MW-2	11/11/1996	NA	NA	NA	NA	NA	NA	NA	NA	16.84	NA	NA	NA
MW-2	02/04/1997	NA	NA	NA	NA	NA	NA	NA	NA	16.84	5.48	11.36	NA
MW-2	05/02/1997	<50	NA	1.5	<0.5	<0.5	0.5	<30	NA	16.84	6.93	9.91	NA
MW-2	07/31/1997	50	NA	1.8	<0.5	<0.5	<0.5	74	NA	16.84	9.10	7.74	NA
MW-2	10/30/1997	63	NA	3.1	<0.5	0.6	1.1	34	NA	16.84	8.33	8.51	NA
MW-2	02/04/1998	<50	NA	6.5	<0.5	1.2	<0.5	NA	NA	16.84	4.88	11.96	NA
MW-2	05/08/1998	<50	NA	0.6	<0.5	<0.5	<0.5	<2.5	NA	16.84	6.00	10.84	NA
MW-2	07/21/1998	81	NA	7.2	<0.5	1.1	1.1	6.3	NA	16.84	6.92	9.92	NA
MW-2	11/19/1998	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.0	NA	16.84	7.41	9.43	NA
MW-2	02/09/1999	257	NA	16.0	0.760	<0.500	1.07	7.36	NA	16.84	6.60	10.24	NA
MW-2	05/10/1999	91	NA	11	<0.50	5.9	1.8	2.7	NA	16.84	6.52	10.32	NA
MW-2	08/25/1999	<50.0	NA	3.75	<0.500	2.79	1.42	7.43	6.00	16.84	7.23	9.61	NA
MW-2	12/09/1999	178	NA	5.13	2.02	2.25	10.2	<5.00	NA	16.84	7.59	9.25	NA
MW-2	02/14/2000	207	NA	7.78	<0.500	1.78	<0.500	<2.50	<2.0	16.84			
MW-3	01/26/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.86	5.82	11.04	NA
MW-3	02/04/1993	2,900	NA	180	13	210	350	NA	NA	16.86	6.01	10.85	NA
MW-3	03/09/1993	NA	NA	NA	NA	NA	NA	NA	NA	16.86	5.88	10.98	NA