

RO6

Wickham, Jerry, Env. Health

To: Friel, Ana
Cc: denis.l.brown@shell.com
Subject: RE: 3420 San Pablo Ave, Oakland - RO 0006; Request for 30-day Extension for Report

Ana,

Based upon your request, the schedule for report submittal for case RO0006 is extended to December 15, 2006.

Regards,

Jerry Wickham

Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Suite 250
Alameda, CA 94502-6577
510-567-6791 phone
510-337-9335 Fax
jerry.wickham@acgov.org

From: Friel, Ana [mailto:afriel@cambria-env.com]
Sent: Wednesday, October 25, 2006 2:33 PM
To: Wickham, Jerry, Env. Health
Cc: denis.l.brown@shell.com
Subject: 3420 San Pablo Ave, Oakland - RO 0006; Request for 30-day Extension for Report

Jerry,

In your work plan approval letter dated June 29, 2006, you requested that the subsurface investigation report for the proposed work be submitted to your office by November 3, 2006. Owing to scheduling difficulties and then laboratory delays, we just received the soil data report this week, and have not yet received the soil vapor report.

Please also be aware that the laboratory failed to analyze the soil vapor samples within the 72-hour recommended hold time, but did analyze them and will provide a report.

Because of the late receipt of analytical data (and some still pending, but expected any time now), on behalf of Shell, we respectfully request a 30-day extension for preparation and submittal of our technical report from November 3 to December 4, 2006.

We appreciate your understanding and consideration of this request.

Ana Friel, PG
Associate Geologist
Cambria Environmental Technology, Inc.

408 7th Street, Suite A, Eureka, CA 95501
afriel@cambria-env.com
p (707) 268-3812
f (707) 268-8180
c (707) 845-4066

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10/25/2006

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



7

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

June 29, 2006

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Shahriar Almasi
Portola Valley Shell
965 Laurel Glen Drive
Palo Alto, CA 94304

Subject: Fuel Leak Case No. RO0000006, Shell#13-9619, 3420 San Pablo Avenue, Oakland, CA
– Work Plan Approval

Dear Denis Brown and Shahriar Almasi:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above referenced site and the document entitled, "Site Investigation Work Plan," dated June 22, 2006, prepared on your behalf by Cambria Environmental Technology, Inc. The Work Plan proposes three soil borings to evaluate the lateral and vertical extent of elevated lead concentrations in shallow soil near former dispensers and three soil borings to collect soil gas samples near the station building. We concur with the proposed scope of work.

We request that you perform the proposed work and send us the reports described below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Jerry Wickham), according to the following schedule:

- **August 15, 2006** - Quarterly Monitoring Report for the Second Quarter 2006
- **November 3, 2006** – Subsurface Investigation Report
- **November 15, 2006** - Quarterly Monitoring Report for the Third Quarter 2006

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

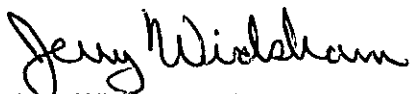
Denis Brown
Shahriar Almasi
June 29, 2006
Page 3

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,



Jerry Wickham, P.G.
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95476

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

April 14, 2006

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Shahriar Almasi
Portola Valley Shell
965 Laurel Glen Drive
Palo Alto, CA 94304

Subject: Fuel Leak Case No. RO0000006, Shell#13-9619, 3420 San Pablo Avenue, Oakland, CA

Dear Denis Brown and Shahriar Almasi:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above referenced site and the report entitled, "Groundwater Monitoring Report – First Quarter 2006, Water Leak Investigation, and Risk Evaluation," dated March 28, 2006, prepared on your behalf by Cambria Environmental Technology, Inc. The report provides a summary of first quarter 2006 groundwater monitoring activities, a single groundwater extraction event from well MW-6R, a water leak investigation, and a screening-level risk evaluation. The report also includes recommendations to decommission well MW-8 and prepare a Work Plan to conduct soil vapor sampling around the on-site station building.

We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

- 1. Soil Vapor Sampling.** ACEH concurs with the recommendation to conduct soil vapor sampling in the area of the on-site station building due to elevated concentrations of fuel hydrocarbons detected in groundwater and the intermittent presence of separate phase hydrocarbons in well MW-6R. Please propose a scope of work to collect soil vapor samples in the Work Plan requested below.
- 2. Lead in Soil.** Lead was detected at a concentration of 2,000 milligrams per kilogram (mg/kg) in a soil sample (P-7-2.0) collected beneath the former dispenser island along 35th Street. The "Groundwater Monitoring Report – First Quarter 2006, Water Leak Investigation, and Risk Evaluation," dated March 28, 2006 suggests that the lead is not the result of a fuel release. However, this conclusion appears to be based on the detection of relatively low concentrations of TPHg and BTEX in soil sample P-7-2.0. It is also possible that a significant historic release of leaded gasoline occurred in the area of soil sample P-7-2.0 and that the low concentrations of purgeable and volatile fuel hydrocarbons in the soil sample are due to

the effects of aging. The highest concentrations of TPHg in groundwater have been detected along 35th Street. The dispensers and product line are the only apparent source of fuel hydrocarbons in this area of the site. We request that you propose additional soil borings to define the lateral and vertical extent of lead in the area of the former dispenser island and product line. Please propose the borings in the Work Plan requested below.

3. **Well Decommissioning.** ACEH concurs with the recommendation to decommission well MW-8. Please present documentation of the well decommissioning in the Subsurface Investigation Report requested below.
4. **Hydraulic Gradient and Plume Stability.** Groundwater mounding in the interior and northwestern portions of the site have not allowed clear definition of groundwater flow directions across the site. The uncertainty in groundwater flow directions and the potential for multiple releases from different areas of the site also make it difficult to assess plume stability. Elevated concentrations of TPHg continue to be detected in groundwater monitoring well MW-10, which is the only off-site well in a downgradient direction. During the first five groundwater sampling events following installation of well MW-10 (October 1991 to October 1992), the concentration of TPHg detected in groundwater from well MW-10 ranged from 3,000 to 27,000 micrograms per liter ($\mu\text{g/L}$). During the most recent groundwater sampling event on January 24, 2006, the concentration of TPHg in groundwater from well MW-10 was 6,110 $\mu\text{g/L}$. Please continue quarterly groundwater monitoring in order to evaluate plume stability and the effects of past water line leaks on apparent hydraulic gradient.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Jerry Wickham), according to the following schedule:

- **May 15, 2006** - Quarterly Monitoring Report for the Second Quarter 2006
- **June 30, 2006** – Work Plan for Subsurface Investigation
- **August 15, 2006** - Quarterly Monitoring Report for the Third Quarter 2006

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County

Denis Brown
Shahriar Almasi
April 14, 2006
Page 3

Environmental Cleanup Oversight Program ftp site are provided on the attached "Electronic Report Upload (ftp) Instructions." Please do not submit reports as attachments to electronic mail.

Submission of reports to the Alameda County ftp site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. Submission of reports to the Geotracker website does not fulfill the requirement to submit documents to the Alameda County ftp site. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitor wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, electronic submittal of a complete copy of all necessary reports was required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements ([http://www.swrcb.ca.gov/ust/cleanup/electronic reporting](http://www.swrcb.ca.gov/ust/cleanup/electronic_reporting)).

In order to facilitate electronic correspondence, we request that you provide up to date electronic mail addresses for all responsible and interested parties. Please provide current electronic mail addresses and notify us of future changes to electronic mail addresses by sending an electronic mail message to me at jerry.wickham@acgov.org.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

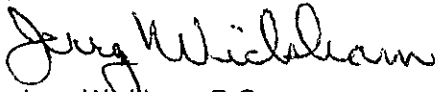
Denis Brown
Shahriar Almasi
April 14, 2006
Page 4

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6791.

Sincerely,



Jerry Wickham, P.G.
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Ana Friel
Cambria Environmental Technology, Inc.
270 Perkins Street
Sonoma, CA 95476

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



7

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

January 19, 2006

Denis Brown
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810-1039

Shahriar Almasi
Portola Valley Shell
965 Laurel Glen Drive
Palo Alto, CA 94304

Scanned
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uploaded
C/KEARS

Subject: Fuel Leak Case No. **RO0000006**, Shell#13-9619, 3420 San Pablo Avenue, Oakland, CA

Dear Denis Brown and Shahriar Almasi:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above referenced site and the report entitled, "Site Conceptual Model," dated December 19, 2005, prepared on your behalf by Cambria Environmental Technology, Inc. The Site Conceptual Model report provides a summary of environmental activities and conditions for the former Shell site and includes information on the former Thrift Oil service station at 3400 San Pablo Avenue in Oakland. The report includes the following recommendations:

- Shell continue joint groundwater monitoring with the adjacent Thrifty site,
- Thrifty survey its monitoring wells to a Geotracker acceptable datum,
- Shell investigate possible water leaks, landscape irrigation, sanitary sewer, and storm drains as sources of the observed periodic groundwater mounding,
- Shell complete a screening level risk evaluation.

ACEH concurs with the above recommendations and requests that you submit a screening level risk evaluation that includes results from the investigation of possible water leaks **by March 31, 2006**. ACEH requests that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

1. **Cross Sections.** The three cross sections prepared for the site clearly illustrate site conditions and are highly useful for data interpretation.
2. **Vertical Extent of Contamination.** Based on the continuous layers of fine-grained soils in the upper 25 feet and evidence from the soil borings that contamination decreases with depth, ACEH concurs that further investigation of the vertical extent of contamination is not needed.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mr. Jerry Wickham), according to the following schedule:

- **February 15, 2006** - Quarterly Monitoring Report for the Fourth Quarter 2005
- **March 31, 2006** – Screening Level Risk Evaluation (to include results of investigation of possible water leaks)
- **May 15, 2006** - Quarterly Monitoring Report for the First Quarter 2006

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

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In order to facilitate electronic correspondence, we request that you provide up to date electronic mail addresses for all responsible and interested parties. Please provide current electronic mail addresses and notify us of future changes to electronic mail addresses by sending an electronic mail message to me at jerry.wickham@acgov.org.

PERJURY STATEMENT

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Denis Brown
Shahriar Almasi
January 19, 2006
Page 3

attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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UNDERGROUND STORAGE TANK CLEANUP FUND

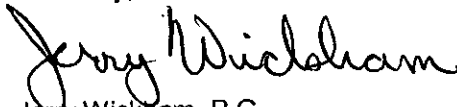
Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

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If you have any questions, please call me at (510) 567-6791.

Sincerely,



Jerry Wickham, P.G.
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Matthew Derby, Cambria Environmental Technology, Inc., 5900 Hollis Street, Suite A
Emeryville, CA 94608

Ana Friel, Cambria Environmental Technology, Inc., 270 Perkins Street, Sonoma, CA 95476

Donna Drogos, ACEH
Jerry Wickham, ACEH
File

200006

C A M B R I A

April 28, 2005

Ms. Roseanna Garcia-La Grille
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Alameda County
MAY 02 2005
Environmental Health

Re: **Record Fee Title Owner for:**
Shell-branded Service Station
3420 San Pablo Avenue
Oakland, California
Incident # 98995748



Dear Ms. Garcia-La Grille:

In accordance with section 25297.15(a) of Chapter 6.7 of the California Health and Safety Code and on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), we are providing you with the name of the current record fee title owner (and address) for the above referenced site.

Shahriar Almasi and Azita Almasi, 965 Laurel Glen Drive, Palo Alto, CA 94304

Sincerely,
Cambria Environmental Technology, Inc.

Ana Friel
Senior Project Geologist

cc: Denis Brown, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
Shahriar Almasi and Azita Almasi, 965 Laurel Glen Drive, Palo Alto, CA 94304

**Cambria
Environmental
Technology, Inc.**

270 Perkins Street
Sonoma, CA 95476
Tel (707) 935-4850
Fax (707) 935-6649

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



March 9, 2004

Ms. Karen Petryna
Shell Oil Products US
20945 S. Wilmington Ave.
Carson, CA 90810

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Dear Ms. Petryna:

Subject: Fuel Leak Case RO0000006, 3420 San Pablo Ave., Oakland, 94608

Alameda County Environmental Health has reviewed the case file for the subject site, including the January 15, 2004 Fourth Quarter 2003 Monitoring Report from Cambria Environmental. We request that a FS/CAP be prepared for this site. We also request that you address the following technical comments.

TECHNICAL COMMENTS

1. Although free product is observed only in MW-6R, elevated dissolved TPHg, BTEX and MTBE is present site-wide and has migrated off-site. Free product has been observed in MW 1, 5 and 7 in the past. The site has been monitored since 1991 and dissolved TPHg concentrations remain elevated in the higher impacted wells. This is indicative of a continuing on-going releases and/or the lack of natural bio-degradation.
2. The extent of the petroleum release has not been determined either laterally or vertically. Off-site wells MW-9 and MW-10 recently detect up to 7100 ppb TPHg, 20 ppb benzene and 180 ppb MTBE. MW-5, located within twenty feet of the former Thrifty Oil (current ARCO) service station reported 7500 ppb TPHg and 63 ppb MTBE in the 4th Quarter 2003 QMR. It is likely that the plumes from these two sites have commingled. It is recommended that these sites co-ordinate sampling events and provide cross-sectional plots including both sites.
3. Historic remediation at the sites has only consisted of free product removal, by bailing and skimmers, and the former UST removals. The 1994 SVE test concluded that this remediation method appears to be a viable approach and vapor extraction piping was installed beneath the onsite building for potential future use.
4. The July 2001 Sensitive Receptor and Utilities Survey concluded that utilities within San Pablo Ave. could be acting as preferential pathways, however, no further investigation was proposed. We recommend that you review results from investigations of the 3400 San Pablo Ave. site, to help determine if additional investigation is warranted. The presence of 7100 ppb TPHg in MW-10 recently, indicates that the utilities are not effectively controlling the plume migration.
5. As an interim RAP, our office concurs with your proposal to perform groundwater extraction from the site prior to the next sampling event. We recommend extraction from all elevated TPH impacted wells and consider additional extraction events based upon your future monitoring results.

Ms. Karen Petryna
RO0000006, 3420 San Pablo Ave., Oakland, 94608
March 9, 2004
Page 2 of 2

TECHNICAL REPORT REQUEST

- April 12, 2004- Provide your written response to the technical comments above.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,



Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, D. Drogos
Mr. Matt Derby, Cambria Environmental, 5900 Hollis St., Suite A, Emeryville, CA 94608
Mr. Mike Bowery, Thrifty Oil Co., 13116 Imperial Highway, Santa Fe Springs,
CA 90670-0138

CAMBRIA



Fax

To: Susan Hugo

Company: ACDEHS

Fax: 510-337-9335

Phone: 510-567-6780

From: Ian Young

Phone: 510-420-3305 ; **Fax** 510 420-9170

Pages: 3

Date: 2/13/01

Re: DWR Driller's Reports Request Authorization

Susan,

Enclosed, please find the Request Authorizations for the following sites:

- 1) 2800 Telegraph Rd., Oakland CA
- 2) 3420 San Pablo Ave., Oakland CA *2006*

Please fax the forms back to me when you have completed them.
I appreciate your assistance, and thank you for your help with these projects.

Sincerely,

[Handwritten signature]
 Ian Young
 Staff Geologist

2/13/01

Referred to

Chuck Hendler

[Handwritten signature]

State of California
Department of Water Resources
Central District
3251 S Street
Sacramento, CA 95816-7017

**WELL DRILLER'S REPORTS
INSPECTION REQUEST AND AGREEMENT**

Project: Former Shell Service Station
Location: 3420 San Pablo Ave.
County: Alameda Contract Number: _____

Request is made pursuant to Section 13751 of the California Water Code for permission to inspect or copy Water Well Driller's Reports which are on file in your office.

In accordance with the requirements of Section 13752 of the Water Code, it is stipulated and agreed that such reports, or any copy or copies made thereof, will not be made available for inspection by the public but will be used solely by this governmental agency for making studies. If copies are made or taken, each copy will be stamped "CONFIDENTIAL" or "FOR OFFICIAL USE ONLY" and will be kept in a restricted file, access to which is limited to the staff of this governmental agency or to its contracted agents. Any copies furnished to contracted agents must be returned to the Department of Water Resources, Central District upon completion of work by the contracted agent.

No information contained in these reports can be disseminated or published without the written permission of the owner of the well.

Ian Young - Cambria
Contracted Agent
1144 65th St Suite B
Address
Oakland CA 94608
City, State, & Zip Code
By [Signature]
Officer
Staff Geologist
Title
(510) 420-3305
Telephone
2/13/01
Date

Alameda Co. Dept. of
Environmental Health
Governmental Agency
1131 Harbor Bay Parkway, 2nd Floor
Address
Alameda CA 94502
City, State, & Zip Code
By _____
Officer

Title

Telephone

Date

(For Departmental Information: _____ copies sent _____)

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES

1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
(510) 337-9335 (FAX)

November 5, 1999

Ms. Karen Petryna
Equiva Services, LLC
P.O. Box 6249
Carson, CA 90749-6249

*RO#6
Acco LOP*

**RE: Shell Service Station (STID # 381)
3420 San Pablo Avenue, Oakland, California 94608**

LANDOWNER NOTIFICATION AND PARTICIPATION REQUIREMENTS

Dear Ms. Petryna:

This letter is to inform you of new legislative requirements pertaining to cleanup and closure of sites where an unauthorized release of hazardous substance, including petroleum, has occurred from an underground storage tank (UST). Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code requires the primary or active responsible party to notify all current record owners of fee title to the site of: 1) a site cleanup proposal, 2) a site closure proposal, 3) a local agency intention to make a determination that no further action is required, and 4) a local agency intention to issue a closure letter. Section 25297.15(b) requires the local agency to take all reasonable steps to accommodate responsible landowners' participation in the cleanup or site closure process and to consider their input and recommendations.

For purposes of implementing these sections, you have been identified as the primary or active responsible party. Please provide to this agency, within twenty (20) calendar days of receipt of this notice, a complete mailing list of all current record owners of fee title to the site. You may use the enclosed "list of landowners" form (sample letter 2) as a template to comply with this requirement. If the list of current record owners of fee title to the site changes, you must notify the local agency of the change within 20 calendar days from when you are notified of the change.

If you are the sole landowner, please indicate that on the landowner list form. The following notice requirements do not apply to responsible parties who are the sole landowner for the site.

LANDOWNER NOTIFICATION

Re: 3420 San Pablo Avenue, Oakland, CA

November 5, 1999

Page 2 of 2

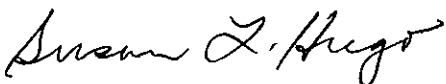
In accordance with Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code, you must certify to the local agency that all current record owners of fee title to the site have been informed of the proposed action before the local agency may do any of the following:

- 1) consider a cleanup proposal (corrective action plan)
- 2) consider a site closure proposal
- 3) make a determination that no further action is required
- 4) issue a closure letter

You may use the enclosed "notice of proposed action" form (sample letter 3) as a template to comply with this requirement. Before approving a cleanup proposal or site closure proposal, determining that no further action is required, or issuing a closure letter, the local agency will take all reasonable steps necessary to accommodate responsible landowner participation in the cleanup and site closure process and will consider all input and recommendations from any responsible landowner.

Please call me at (510) 567-6780 should you have any questions about the content of this letter.

Sincerely,



Susan L. Hugo
Hazardous Materials Specialist

Attachments

cc: Chuck Headlee, RWQCB
SH / files

SAMPLE LETTER (2): LIST OF LANDOWNERS FORM

Name of local agency
Street address
City

SUBJECT: CERTIFIED LIST OF RECORD FEE TITLE OWNERS FOR (*Site Name and Address*)

(Note: Fill out item 1 if there are multiple site landowners. If you are the sole site landowner, skip item 1 and fill out item 2.)

1. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (*name of primary responsible party*), certify that the following is a complete list of current record fee title owners and their mailing addresses for the above site:

2. In accordance with section 25297.15(a) of Chapter 6.7 of the Health & Safety Code, I, (*name of primary responsible party*), certify that I am the sole landowner for the above site.

Sincerely,

Signature of primary responsible party

Name of primary responsible party

SAMPLE LETTER 3: NOTICE OF PROPOSED ACTION SUBMITTED TO LOCAL AGENCY

Name of local agency
Street address
City

SUBJECT: NOTICE OF PROPOSED ACTION SUBMITTED TO LOCAL AGENCY FOR
(Site Name and Address)

In accordance with section 25297,15(a) of Chapter 6.7 of the Health & Safety Code, I, (*name of primary responsible party*), certify that I have notified all responsible landowners of the enclosed proposed action. Check space for applicable proposed action(s):

- cleanup proposal (corrective action plan)
- site closure proposal
- local agency intention to make a determination that no further action is required
- local agency intention to issue a closure letter

Sincerely,

Signature of primary responsible party

Name of primary responsible party

cc: Names and addresses of all record fee title owners

6/17/98

forward to

Paul Waite

FACSIMILE

- Will replacement
install tomorrow
- Job site map

To: Susan Hugo
Organization: ACDEH
Fax #: (510) 337-9335
Re: Shell Service Station,
3420 San Pablo Ave.
Oakland, California
Date: June 15, 1998
Pages: 1, including this cover sheet.

Ms. Hugo:

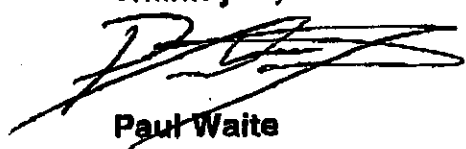
This is the scope of work for the well replacement project at 3420 San Pablo, Oakland, scheduled for June 18 and 19, 1998. We plan to install the two wells according to typical ACDEH standards on June 18th, 1998, beginning at 8:00 a.m. We will do the vault rebuilds and completions on June 19th, 1998.

3420 San Pablo Avenue, Oakland
Cross street: 35th Street
WIC #204-5508-5306
Shell Engineer - Alex Perez

- ▶ Install two monitoring wells, each up to 30 feet deep, to replace former wells MW-3 and MW-6. Wells constructed of 2" diameter PVC screen and casing and finished with traffic rated Christy vaults.
- ▶ MW-1: Rebuild well vault around existing well.
- ▶ MW-4: Rebuild well vault around existing well approx. 4" higher.
- ▶ MW-5: Rebuild well vault around existing well approx. 5" higher.
- ▶ MW-7: Rebuild well vault around existing well.
- ▶ MW-8: Rebuild well vault around existing well approx. 3" higher.

Well locations are shown on the attached figure. Please call if you have any questions.

Thank you,



Paul Waite

From the desk of...

Paul Waite
Engineer
Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608

(510) 420-0700
Fax: (510) 420-9170

To: Mr. Chris Pruner
Organization: Gregg Drilling & Systems, Inc.
Fax #: (510) 313-0302
Re: 3420 San Pablo
Oakland, California
Date: June 15, 1998
Pages: 1, including this cover sheet.

FACSIMILE

Chris:

Here is the scope of work for the project at 3420 San Pablo, Oakland, scheduled for June 18 and 19, 1998. We would like to install the two wells on the 18th, beginning at 8:00 a.m., and do the rebuilds and completions on the 19th.

3420 San Pablo Avenue, OaklandCross street: 35th Street

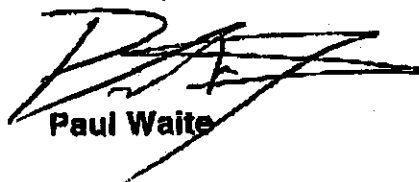
WIC #204-5508-5306

Shell Engineer - Alex Perez

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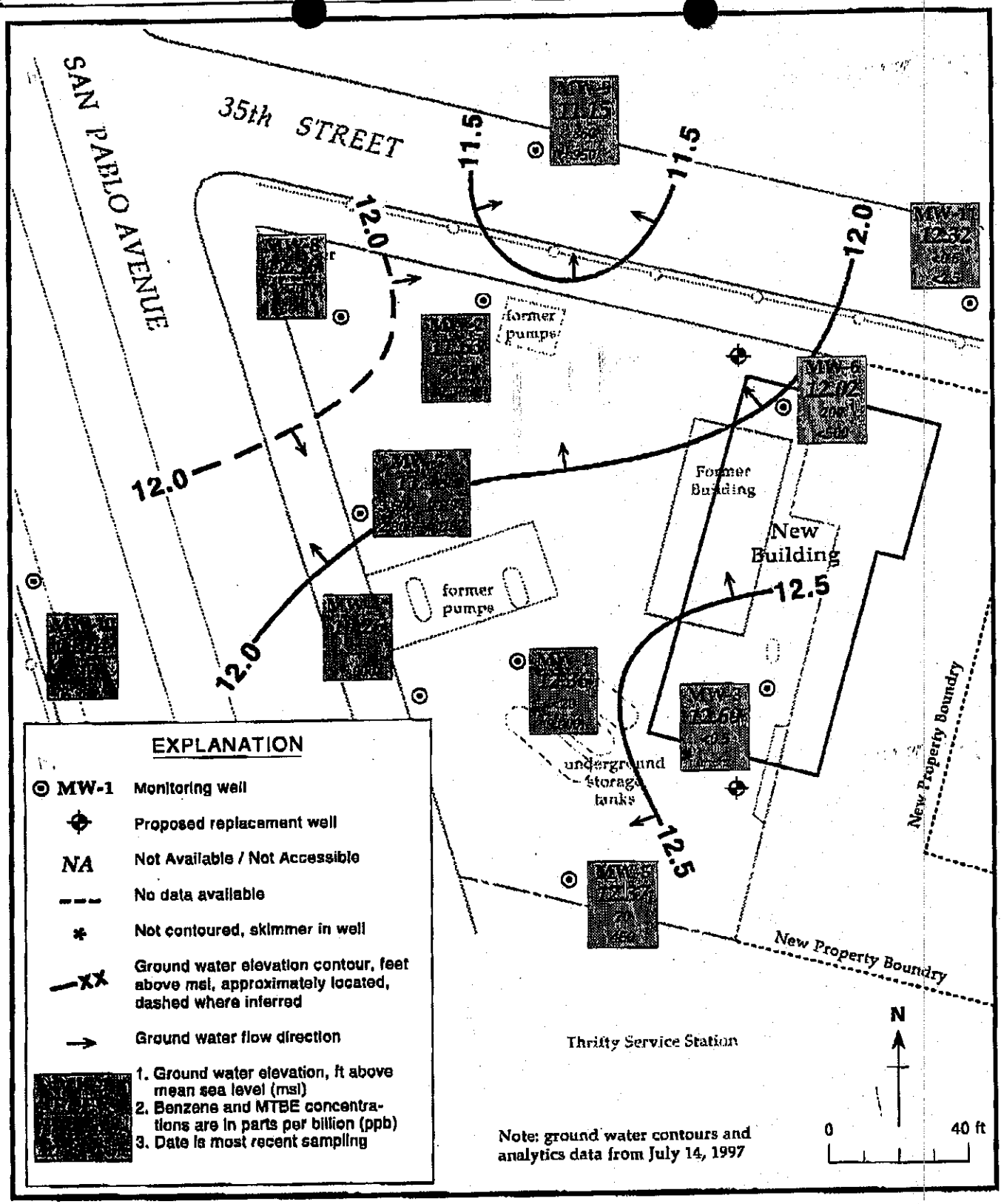


Figure 1. Future Building Location and Well Replacement - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

#PROJECT#HELLIGAR#PUMPURE#WELLREPLA#

11/17/97

To: Susan Argo 510-337-9335
From Paul White, Cambria, Phone 510-420-3305



CAMBRIA

ENVIRONMENTAL
PROTECTION

February 6, 1998

98 FEB 13 PM 4:01

Via Facsimile and U.S. Mail
(510) 337-9335

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Vapor Extraction Piping Installation**
Shell Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306
Cambria Project #240-0554

Dear Ms. Hugo:

This letter documents the January 27, 1998 meeting between Susan Hugo and Madhulla Logan of the Alameda County Department of Environmental Health (ACDEH) and Paul Waite, Pete McKereghan, and Sampath Rangarajan of Cambria Environmental Technology, Inc. (Cambria) concerning the site referenced above. Cambria is the environmental consultant for Shell Oil Products Company (Shell) for this site. The site is currently under renovation, and Shell intends to construct an operating service station and student training center on the property.

As we discussed, ACDEH does not require Shell to install a "liquid boot" vapor barrier in the foundation of the proposed building at the site. The building will be built on a layer of imported silty clay fill soil approximately 1 foot thick with approximately 93% compaction. A 4-inch thick layer of gravel base course will be placed on the fill soil. A layer of 6-mil plastic sheeting will be installed on top of the gravel, followed by a layer of sand and the cement building slab. Shell will install perforated plastic piping into the gravel base course. The piping will be capped outside of the building to allow future access, if necessary. The purpose of the plastic vapor extraction piping is to give Shell a method to remove any hydrocarbon vapors that accumulate beneath the building in the future. The attached drawing shows the planned layout of the building and piping.

Shell is currently conducting a modified risk-based corrective action (RBCA) analysis to evaluate the potential risk presented by residual hydrocarbons in soil and ground water to the future occupants of the building. As we discussed, the preliminary analysis indicates that there should be no significant risk to building occupants. However, Shell will install the vapor extraction piping beneath the building to prevent hydrocarbon vapors from accumulating inside of the building if the situation changes. As part of the risk analysis, Cambria will develop target ground water concentrations for site constituents of concern (COCs). If, in the future, the COC ground water concentrations in the monitoring wells near the building exceed the target concentrations, an assessment of the indoor air COC concentrations will be conducted, and, if necessary, the vapor extraction piping will be used to abate any COC vapors present.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

Susan Hugo
February 6, 1998

CAMBRIA

Shell will install the building foundation soon. As you stated, Shell does not require the permission of the ACDEH to proceed with the installation of the vapor extraction piping. We will keep you updated on the schedule of the project, and we will discuss the results of the risk analysis before the building is occupied.

Thank you for your assistance. If you have any questions or comments about this project, please contact me as soon as possible at (510) 420-3305.

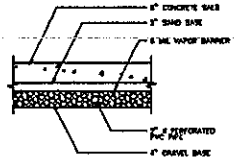
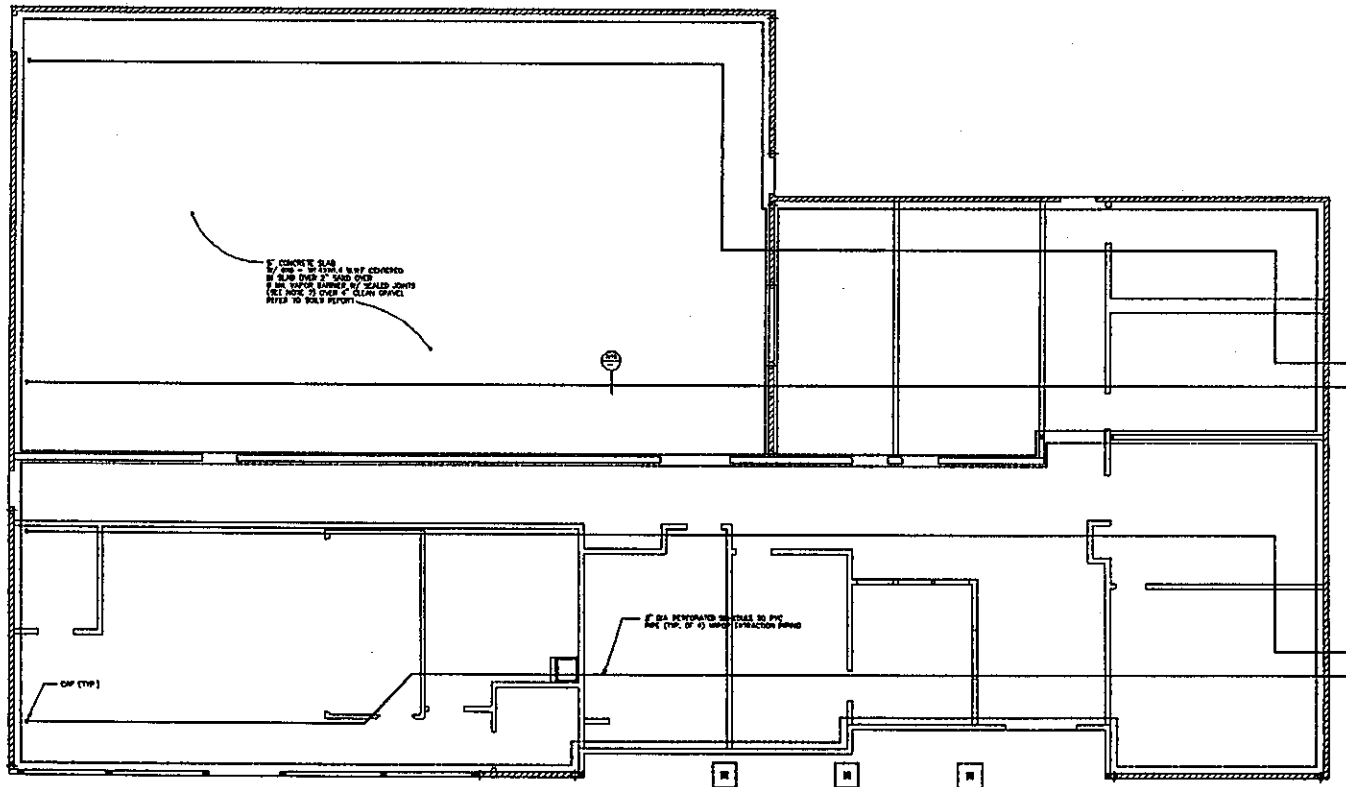
Sincerely,
Cambria Environmental Technology, Inc.



Paul Waite
Project Engineer

cc: A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553,
Fax (510) 335-5029
Ray Newsome, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553,
Fax (510) 335-5016
Madhulla Logan, ACDEH, 1131 Harbor Bay Parkway, Suite 250, Alameda, California 94502-6577,
Fax (510) 337-9335
Blythe Wilson, RHL, 1390 Willow Pass Rd., Suite 420, Concord, California 94520-5250,
Fax (510) 609-6304
Cortez Johnson, Winmax Construction, 4336 Leimert Blvd., Los Angeles, California 90008,
Fax (213) 299-1473, Site Fax (510) 923-9342

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N19 VAPOR EXTRACTION PIPING

THIS DRAWING AND PROGRAM ARE THE PROPERTY OF SHELL OIL PRODUCTS COMPANY. ANY REPRODUCTION OR TRANSMISSION OF THIS DRAWING OR PROGRAM IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF SHELL OIL PRODUCTS COMPANY IS PROHIBITED. SHELL OIL PRODUCTS COMPANY IS NOT RESPONSIBLE FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THIS DRAWING OR PROGRAM.

NO.	REVISION	DATE

VAPOR EXTRACTION PIPING

WPC 304-0219-0308
 1400 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA



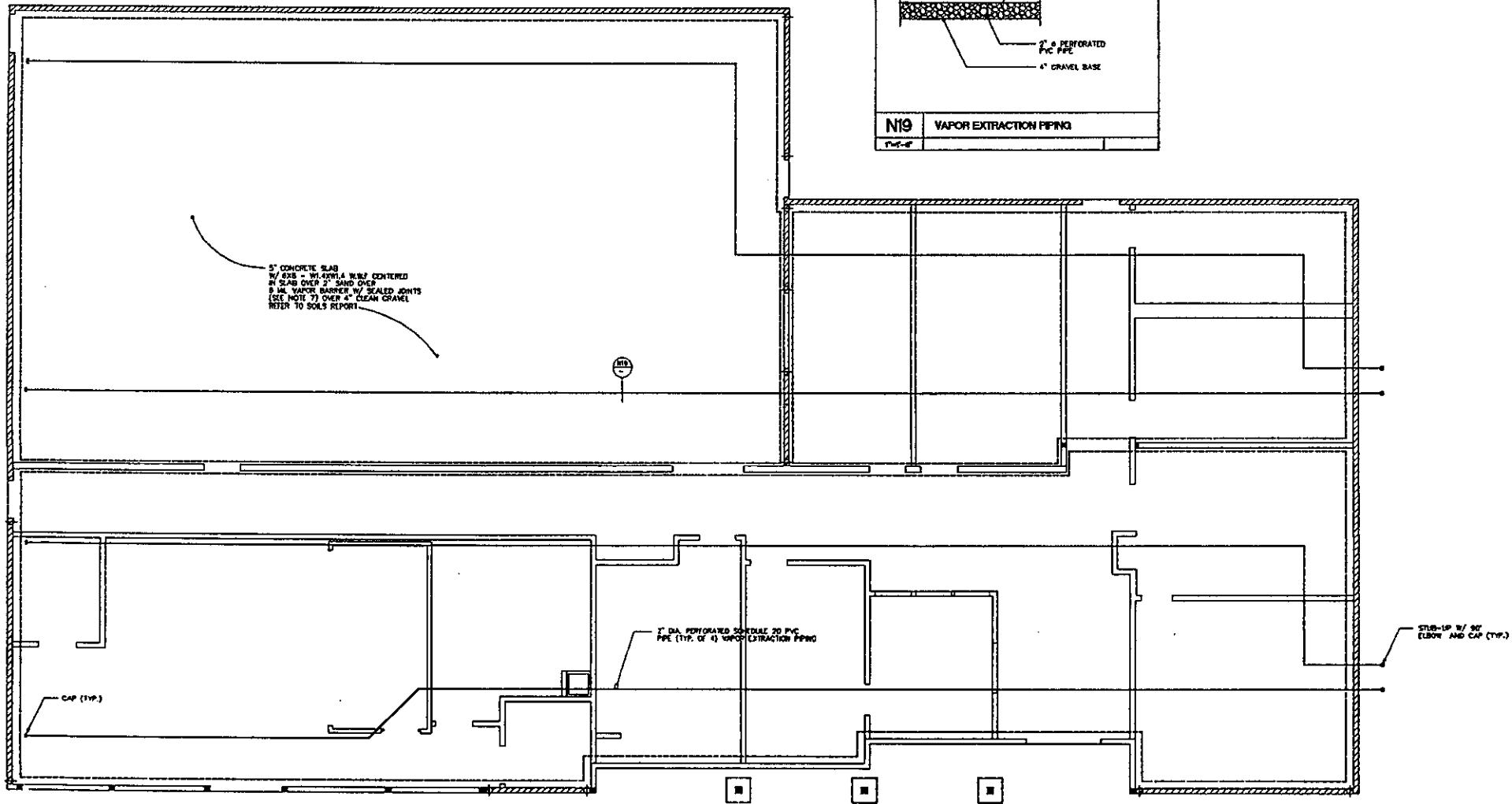
ORILL ENGINEERING • DESIGN • CONSTRUCTION SERVICES
 1400 SAN PABLO AVENUE, SUITE 100, OAKLAND, CALIFORNIA 94612
 TEL: 415.764.1000 FAX: 415.764.1001

NO.	REVISION	DATE	BY	CHKD.

82.1

A1 VAPOR EXTRACTION PIPING

SHELL OIL PRODUCTS COMPANY
 1400 SAN PABLO AVENUE, SUITE 100, OAKLAND, CALIFORNIA 94612
 TEL: 415.764.1000 FAX: 415.764.1001





CAMBRIA

February 6, 1998

Via Facsimile and U.S. Mail
(510) 337-9335

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Vapor Extraction Piping Installation**
Shell Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306
Cambria Project #240-0554

Dear Ms. Hugo:

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PH: (510) 420-0700
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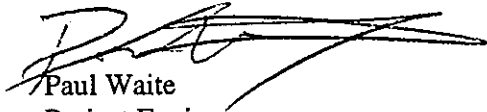
Susan Hugo
February 6, 1998

CAMBRIA

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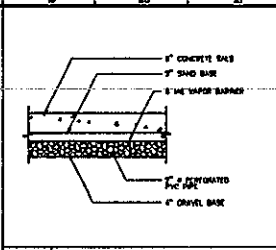
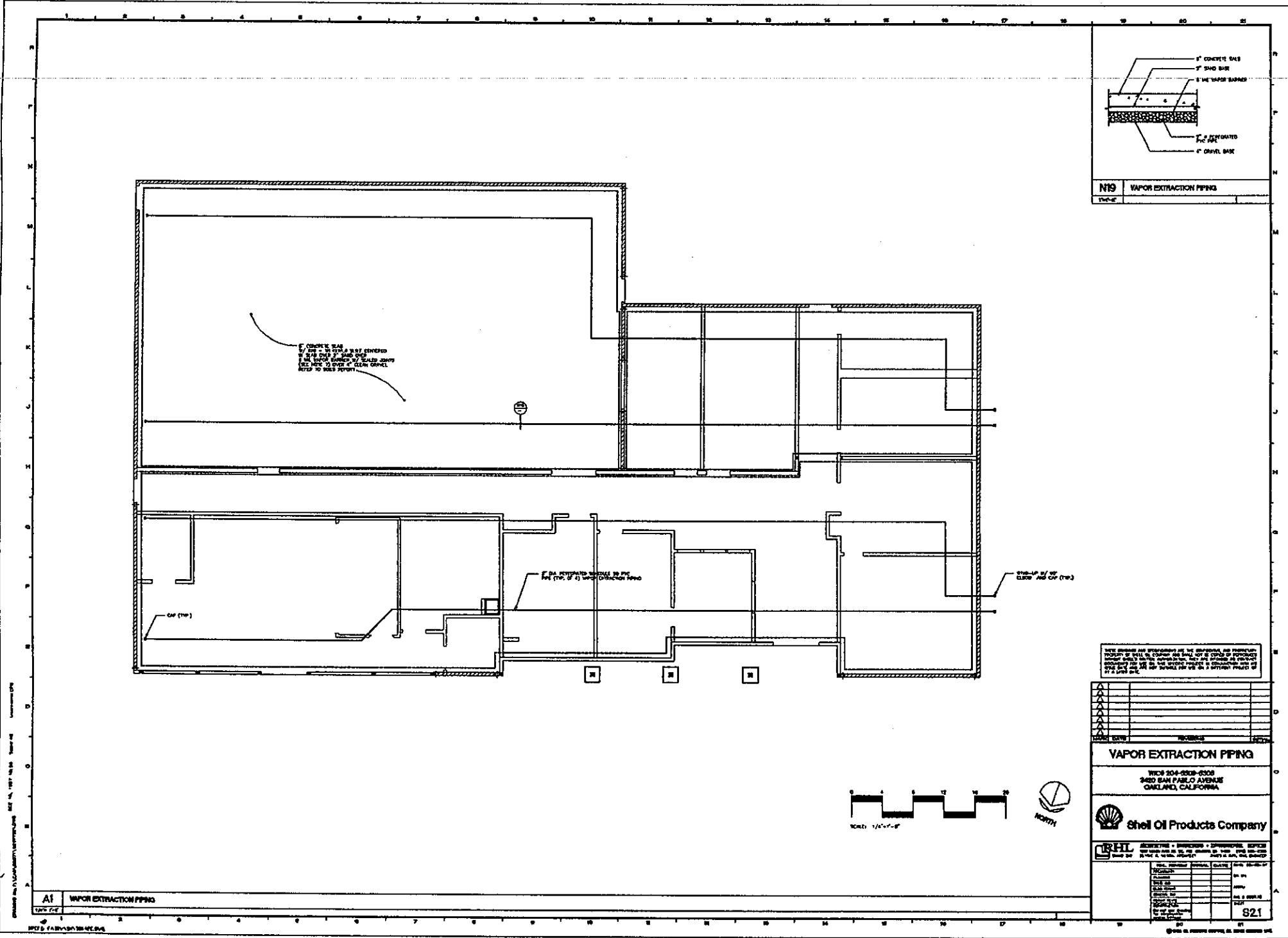
Sincerely,
Cambria Environmental Technology, Inc.



Paul Waite
Project Engineer

cc: A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553,
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Fax (213) 299-1473, Site Fax (510) 923-9342

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N19 VAPOR EXTRACTION PIPING

1. CONCRETE SLAB
2. SAND BASE
3. VAPOR BARRIER
4. PERFORATED PVC PIPE
5. GRAVEL BASE

2. 1/2" DIA. PERFORATED PVC PIPE
3. 2" DIA. PERFORATED PVC PIPE

1. 1/2" DIA. PERFORATED PVC PIPE

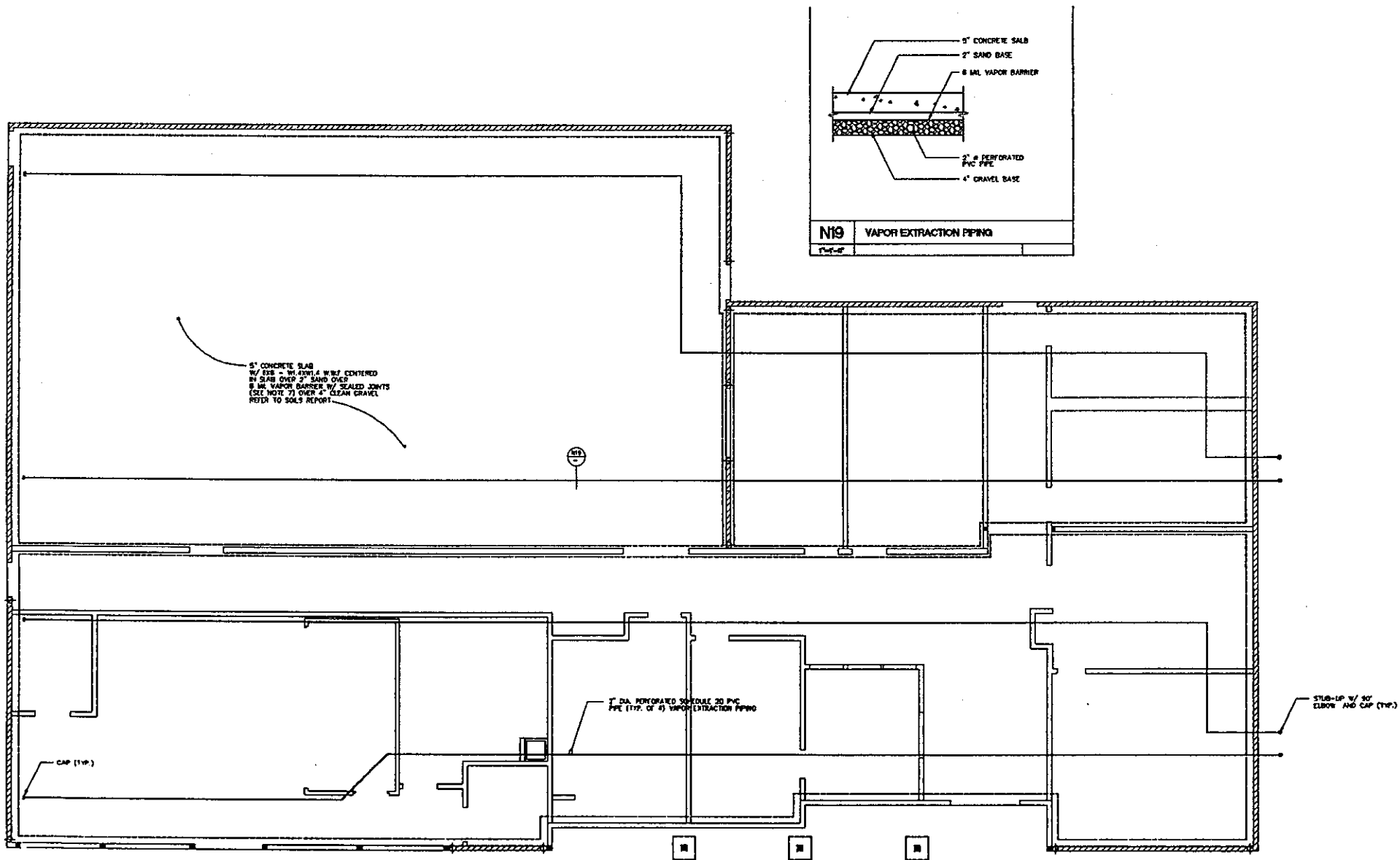
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NO.	DATE	REVISIONS

VAPOR EXTRACTION PIPING
 WCP 204-2203-2302
 2400 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA



NO.	DATE	REVISIONS	BY





CAMBRIA

February 6, 1998

Via Facsimile and U.S. Mail
(510) 337-9335

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Vapor Extraction Piping Installation**
Shell Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306
Cambria Project #240-0554

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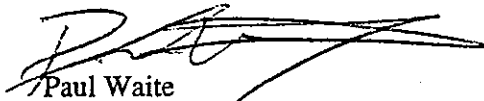
Susan Hugo
February 6, 1998

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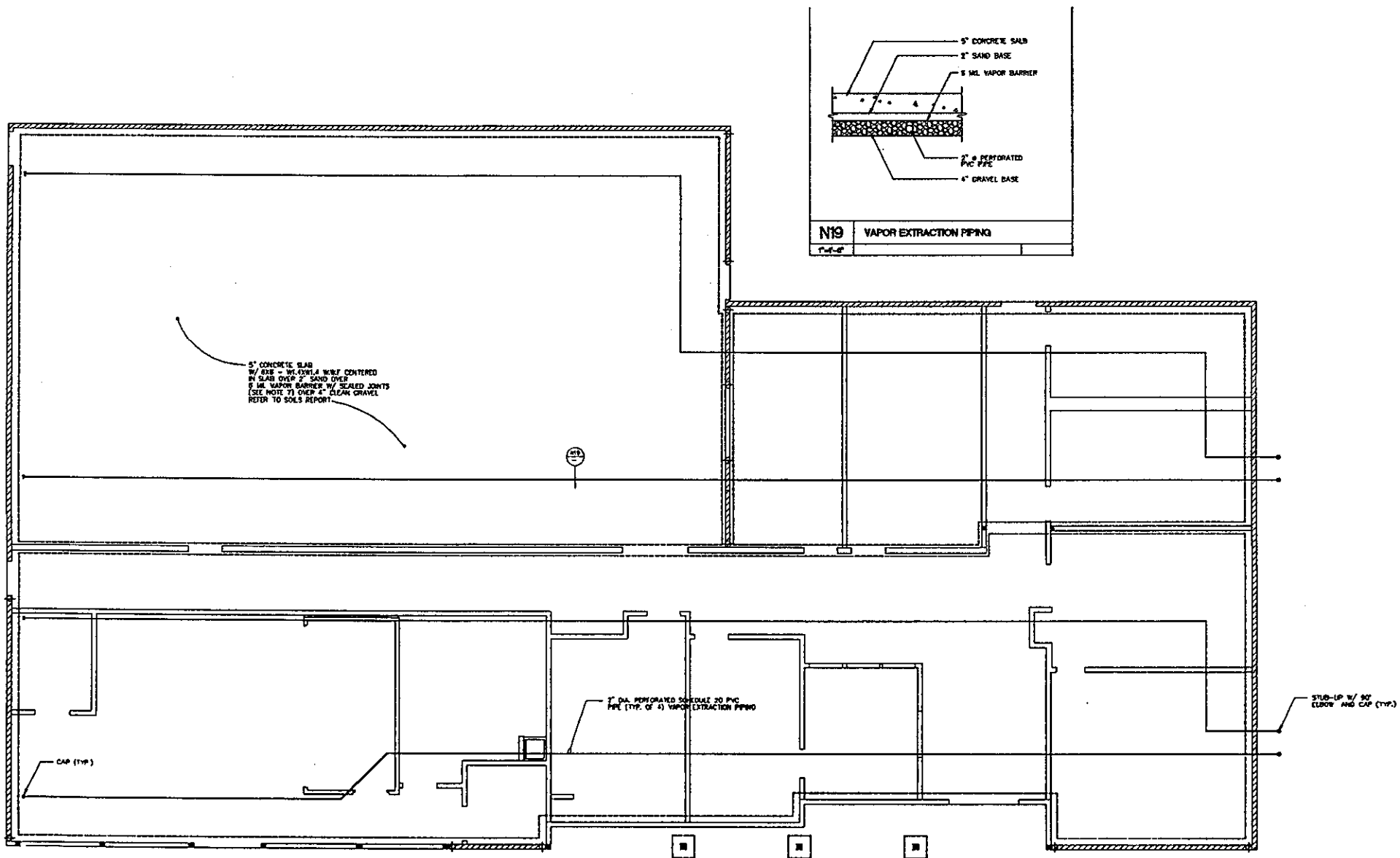
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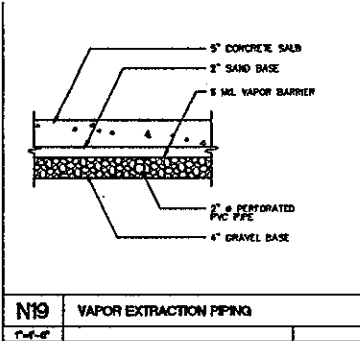
Paul Waite
Project Engineer

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5" CONCRETE SLAB
 W/ BEE - W/ #4W14 W/RF CENTERED
 IN SLAB OVER 2" SAND OVER
 5 MIL VAPOR BARRIER W/ SEALED JOINTS
 (SEE NOTE 7) OVER 4" CLEAN GRAVEL
 REFER TO SOILS REPORT



N19 VAPOR EXTRACTION PIPING

2" DIA. PERFORATED SCHEDULE 20 PVC
 PIPE (TYP. OF 4) VAPOR EXTRACTION PIPING

STUB-UP W/ 90°
 ELBOW AND CAP (TYP.)

CAP (TYP.)



CAMBRIA

February 6, 1998

Via Facsimile and U.S. Mail
(510) 337-9335

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Vapor Extraction Piping Installation**
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3420 San Pablo Avenue
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WIC #204-5508-5306
Cambria Project #240-0554

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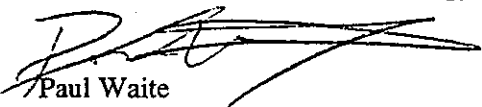
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CAMBRIA

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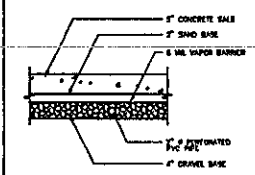
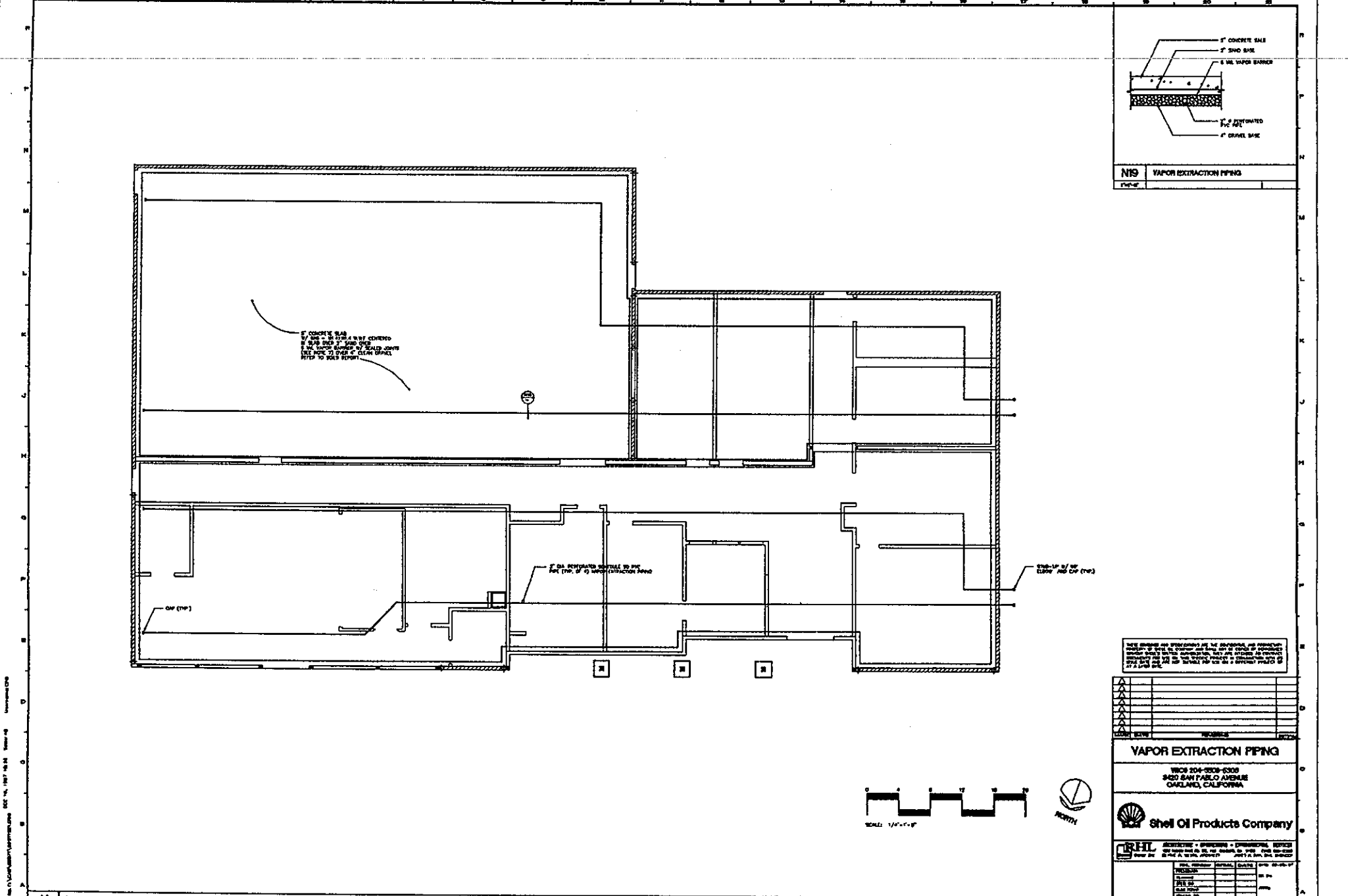
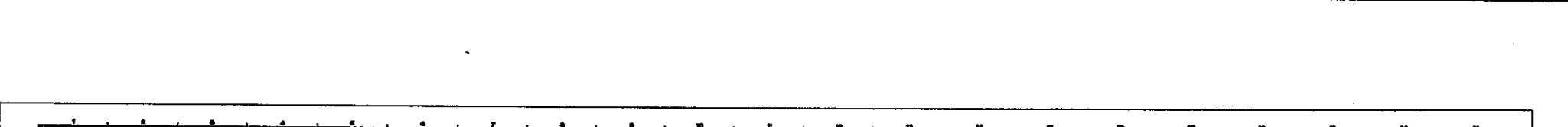
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Sincerely,
Cambria Environmental Technology, Inc.


Paul Waite
Project Engineer

cc: A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553,
Fax (510) 335-5029
Ray Newsome, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553,
Fax (510) 335-5016
Madhulla Logan, ACDEH, 1131 Harbor Bay Parkway, Suite 250, Alameda, California 94502-6577,
Fax (510) 337-9335
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Fax (510) 609-6304
Cortez Johnson, Winmax Construction, 4336 Leimert Blvd., Los Angeles, California 90008,
Fax (213) 299-1473, Site Fax (510) 923-9342

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NIS VAPOR EXTRACTION PIPING

DRAWING NO. OILCO/FAS/26/08/1105/0000 DEC 16, 1997 10.14 1000-14
 DRAWING BY: OILCO/FAS/26/08/1105/0000

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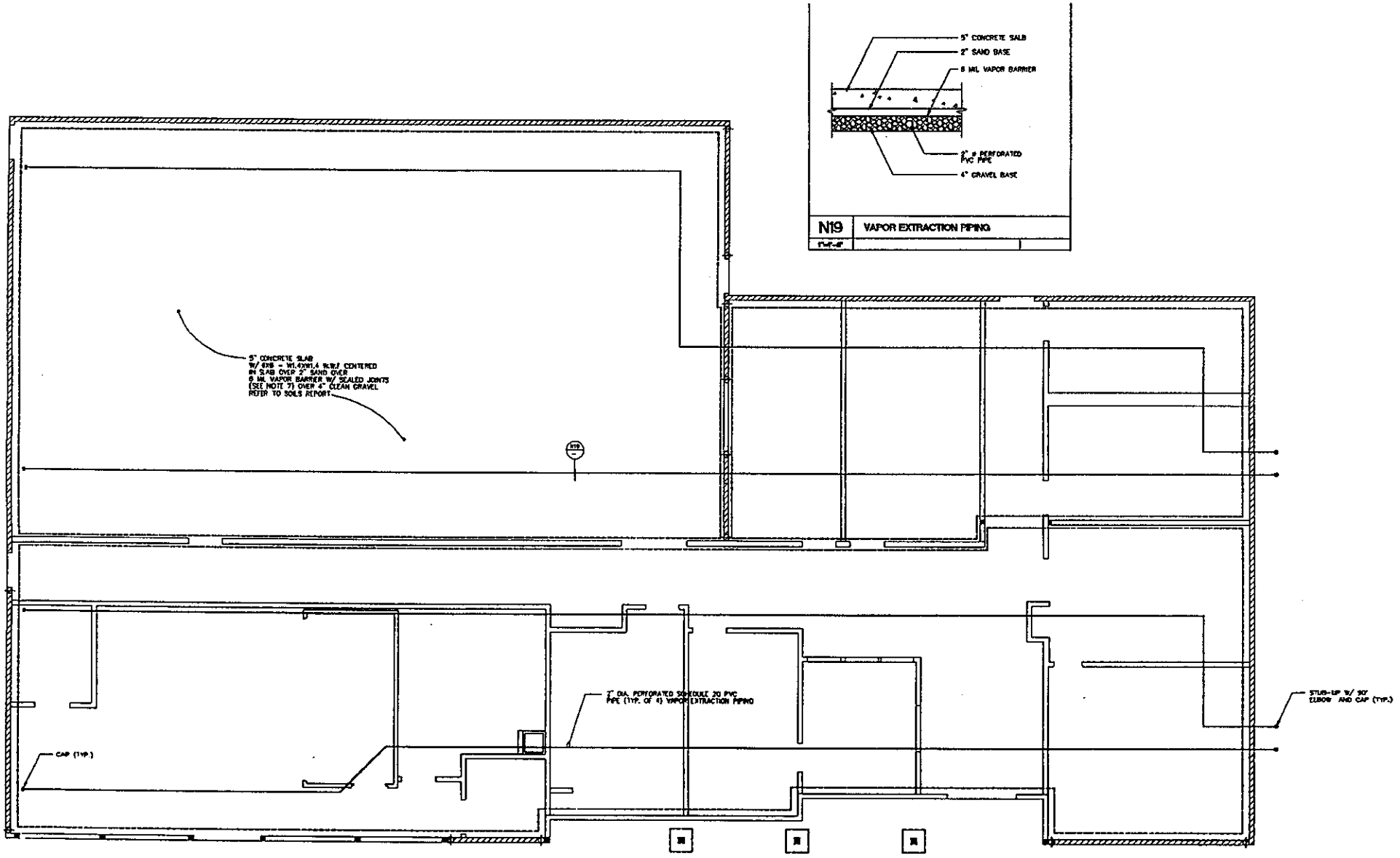
NO.	REVISIONS

VAPOR EXTRACTION PIPING
 WGS 204-3008-8300
 2420 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA



A1 VAPOR EXTRACTION PIPING

NO.	DESCRIPTION	DATE	BY	CHK'D BY





CAMBRIA

February 6, 1998

Via Facsimile and U.S. Mail
(510) 337-9335

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Vapor Extraction Piping Installation**
Shell Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306
Cambria Project #240-0554

Dear Ms. Hugo:

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CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

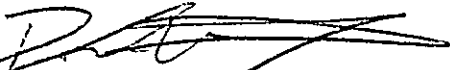
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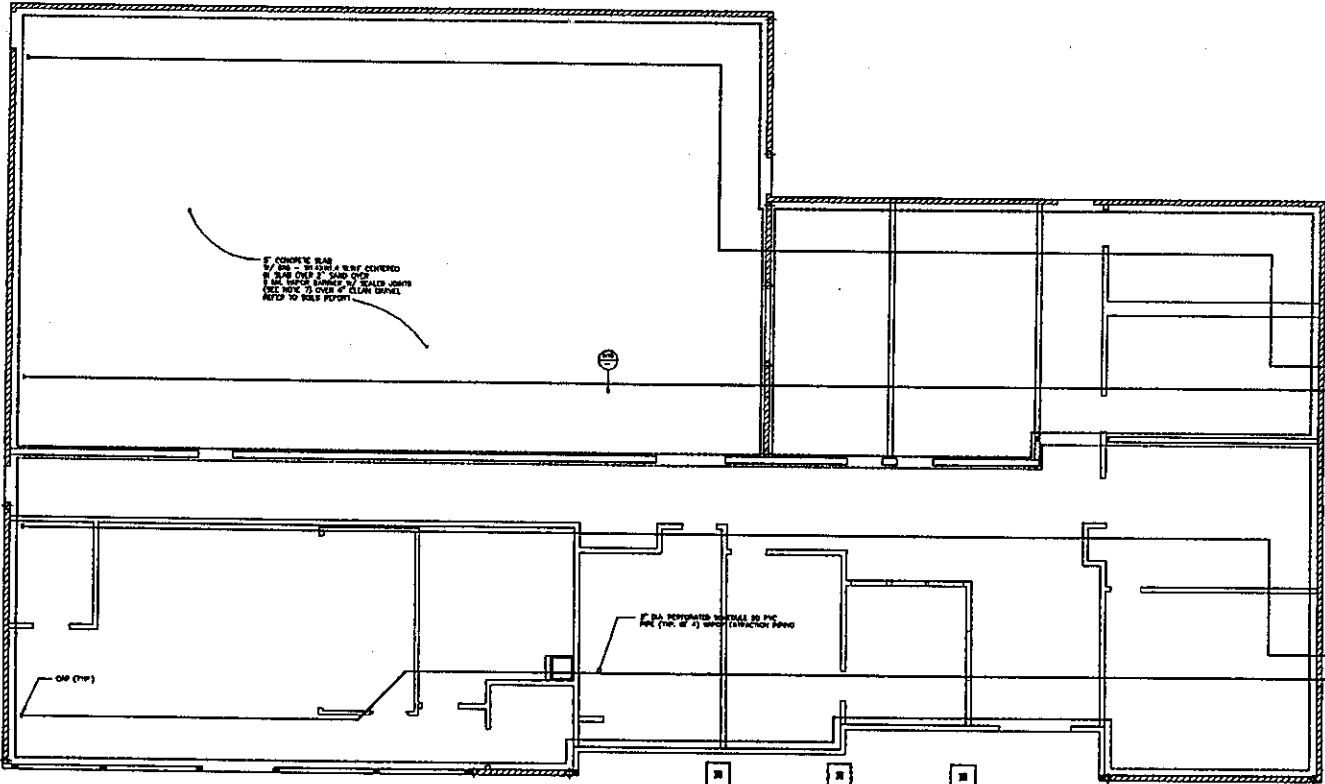
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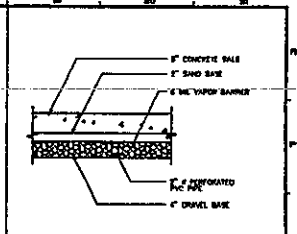
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2" CONCRETE BASE
 2" SAND OVER 2" SAND OVER
 2" AL. VAPOR BARRIER BY SEALS JOINTS
 (SEE NOTE 3) OVER 4" CLEAN DRAINEL
 AFTER TO HALL FLOOR

E.P.A. REPORTED CONTAMINATED AREA
 (SEE MAP OF SITE) VAPOR EXTRACTION POINT

STOP-UP OF 1/2"
 CLEAN AND COV (TRIP)



NIS VAPOR EXTRACTION PIPING
 TYPE-1

THIS DRAWING AND SPECIFICATIONS ARE FOR INFORMATIONAL AND CONSTRUCTION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL CONDITIONS AND DATA IN FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL HEALTH DEPARTMENT AND FROM THE LOCAL FIRE DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL HEALTH DEPARTMENT AND FROM THE LOCAL FIRE DEPARTMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INFORMATION FROM THE LOCAL HEALTH DEPARTMENT AND FROM THE LOCAL FIRE DEPARTMENT.

NO.	REVISIONS

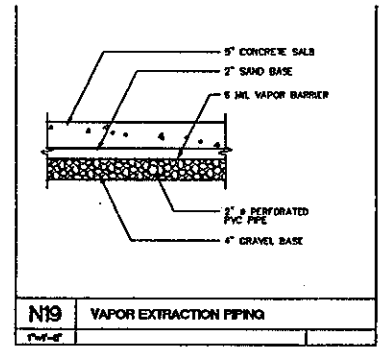
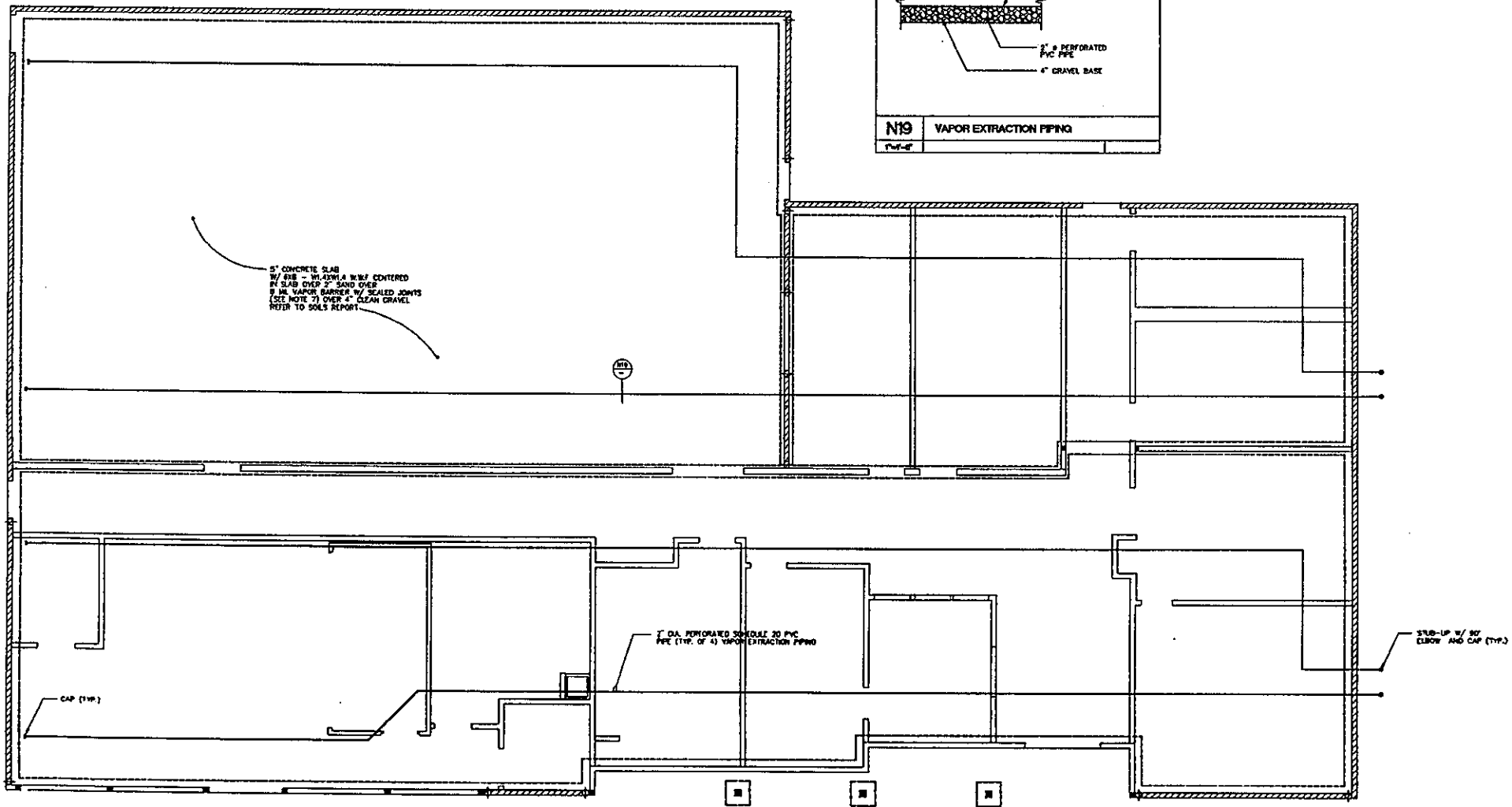
VAPOR EXTRACTION PIPING
 WTOP 804-8308-8308
 2450 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA



NO.	REVISIONS



A1 VAPOR EXTRACTION PIPING
 DATE: 10/15/88





CAMBRIA

February 6, 1998

Via Facsimile and U.S. Mail
(510) 337-9335

Ms. Susan Hugo
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1131 Harbor Bay Parkway, Suite 250
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SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

Susan Hugo
February 6, 1998

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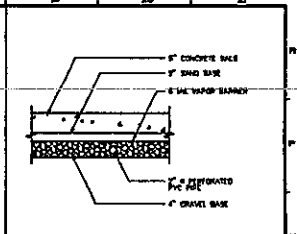
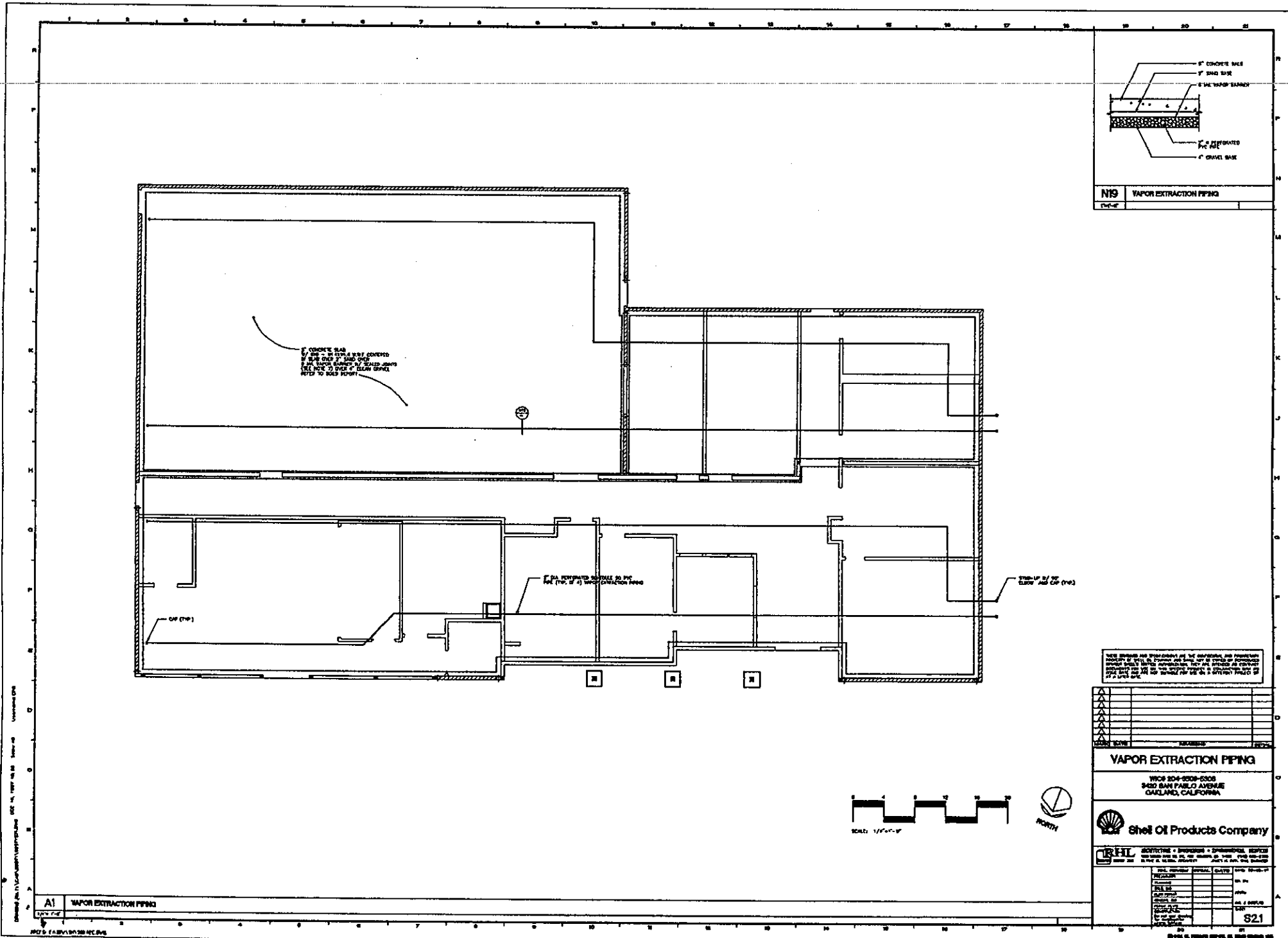
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Paul Waite
Project Engineer

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Fax (213) 299-1473, Site Fax (510) 923-9342

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NIS VAPOR EXTRACTION PIPING
1/2" = 1'

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NO.	REVISION	DATE

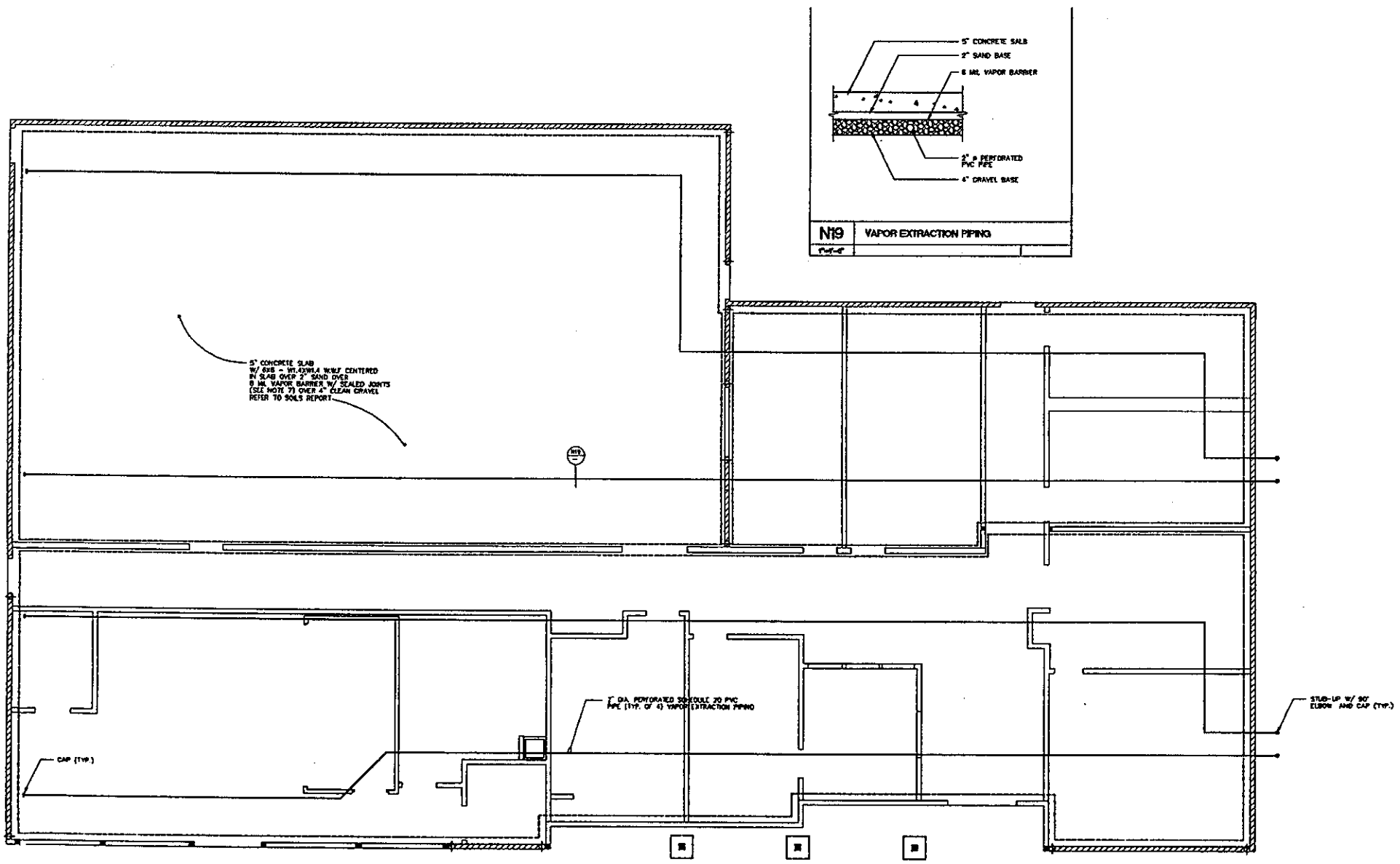
VAPOR EXTRACTION PIPING
 WFO 804-8008-8308
 3422 SHAW PAVILION AVENUE
 OAKLAND, CALIFORNIA



RHL SURVEYING • ENGINEERING • ENVIRONMENTAL SERVICES
 1000 10TH STREET, SUITE 200, OAKLAND, CALIFORNIA 94612
 TEL: (415) 778-1000 FAX: (415) 778-1001

NO.	DATE	DESCRIPTION

SHELL OIL PRODUCTS COMPANY
 WFO 804-8008-8308
 3422 SHAW PAVILION AVENUE
 OAKLAND, CALIFORNIA 94612
 TEL: (415) 778-1000 FAX: (415) 778-1001





CAMBRIA

February 6, 1998

Via Facsimile and U.S. Mail
(510) 337-9335

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Vapor Extraction Piping Installation**
Shell Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306
Cambria Project #240-0554

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CA 94608
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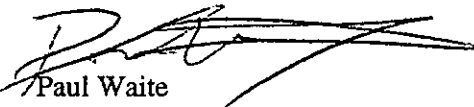
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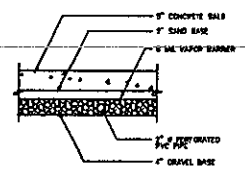
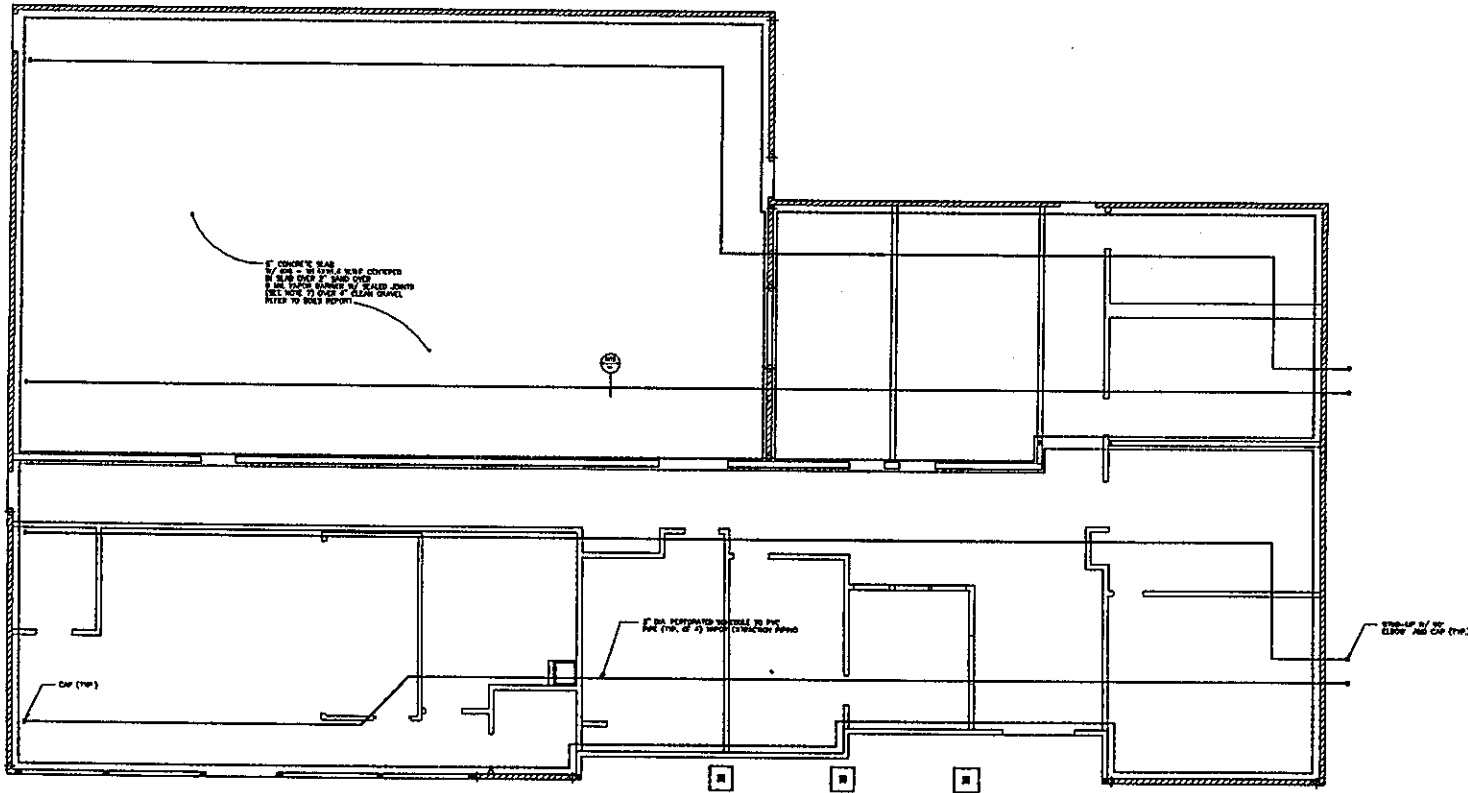
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N19 VAPOR EXTRACTION PIPING
 1/2\"/>

CONCRETE SLAB
 4\"/>

CONCRETE WALLS TO BE
 4\"/>

SHUT-OFF BY
 ELBOW AND CAP (1/2\"/>

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NO.	REVISION	DATE

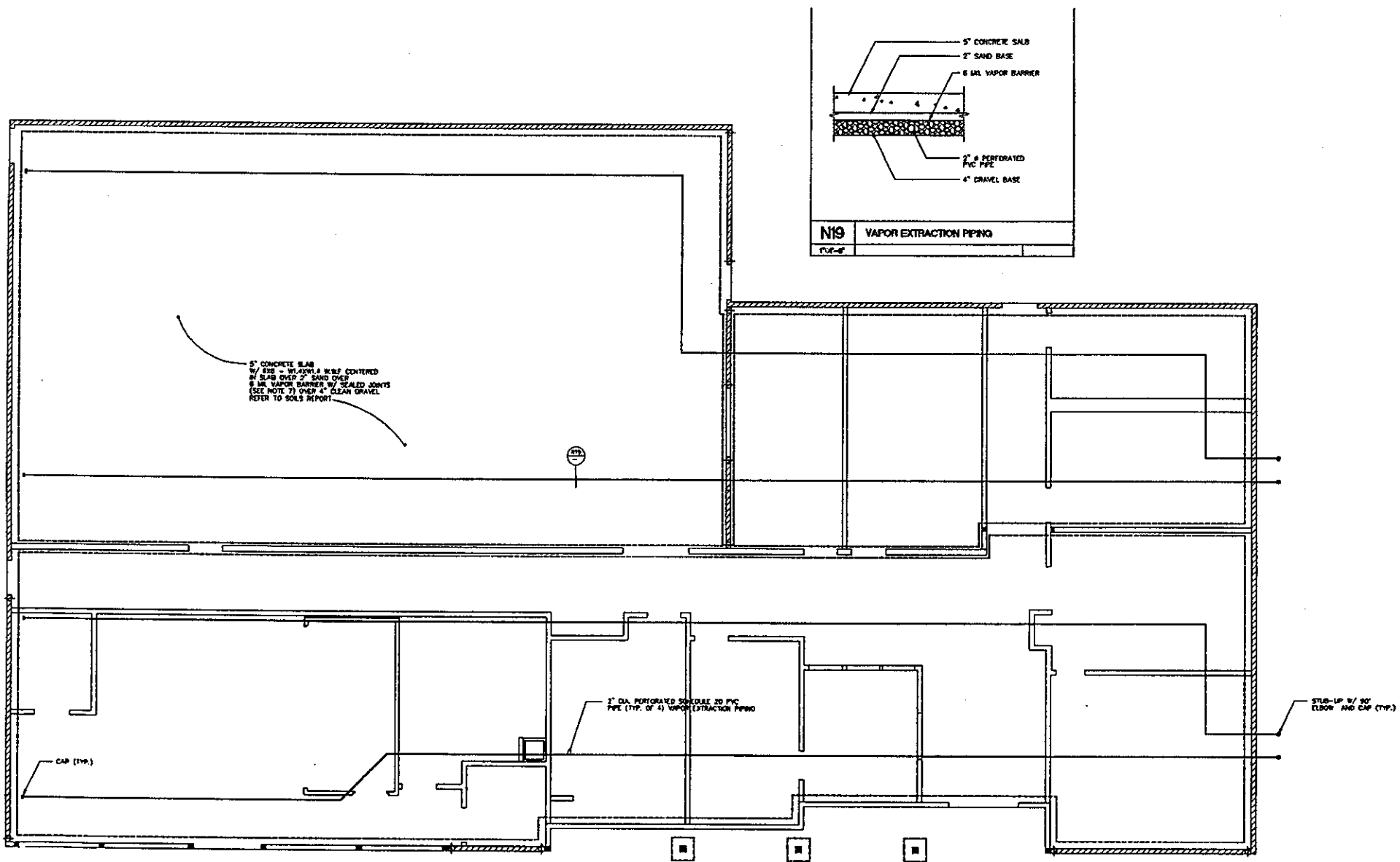
VAPOR EXTRACTION PIPING

WPCS 204-2000-0308
 3420 SAN PABLO AVENUE
 OAKLAND, CALIFORNIA



A1 VAPOR EXTRACTION PIPING

NO.	REVISION	DATE	BY	CHKD.





CAMBRIA

R 6

February 6, 1998

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Alameda County Department of Environmental Health
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Paul Waite
Project Engineer

cc: A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553,
Fax (510) 335-5029
Ray Newsome, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553,
Fax (510) 335-5016
Madhulla Logan, ACDEH, 1131 Harbor Bay Parkway, Suite 250, Alameda, California 94502-6577,
Fax (510) 337-9335
Blythe Wilson, RHL, 1390 Willow Pass Rd., Suite 420, Concord, California 94520-5250,
Fax (510) 609-6304
Cortez Johnson, Winmax Construction, 4336 Leimert Blvd., Los Angeles, California 90008,
Fax (213) 299-1473, Site Fax (510) 923-9342

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ALAMEDA COUNTY HAZARDOUS MATERIALS DIVISION

01/27/98

UNDERGROUND STORAGE TANK CLEANUP SITE

AGENCY#: 10000 SOURCE OF FUNDS: F-FEDERAL INSPECTOR: SH
 StID: 381 SUBSTANCE: 8006619 -Gasoline
 SITE NAME: Shell Oil Company DATE REPORTED : 02/15/89
 ADDRESS : 3420 San Pablo Ave DATE CONFIRMED: 08/08/88
 CITY/ZIP : Oakland, CA 94608 MULTIPLE RP'S : N

CASE TYPE: O CONTRACT STATUS: 4 PRIOR:2B3 EMERGENCY RESPONSE:

RP SEARCH	: S	DATE END:	07/20/92
PRELIM ASSESSMENT	: C	DATE BEGIN:	
REMEDIAL INVESTIG	: U	DATE BEGIN:	
REMEDIAL ACTION	:	DATE BEGIN:	
POST REMED MONITOR:	DATE BEGIN:	DATE END:	

TYPE ENFORCEMENT ACTION TAKEN: 1 DATE OF ENFORC. ACTION: 07/20/92

UNDERGROUND STORAGE TANK CLEANUP SITE - SCREEN #2

LUFT FIELD MANUAL CONSIDERATION: 3SHSAW CASE CLOSED: on:

DT EXC START: REMEDIAL ACTIONS TAKEN:

RP #1: CONTACT: Alex Perez RP COST: \$0.00
 RP COMPANY NAME: Shell Oil Company Ph:
 ADDRESS: P. O. Box 8080
 CITY/STATE: Maratinez Ca 94553

ΔPIMENT:



CAMBRIA

December 4, 1997

Via Facsimile and U.S. Mail
(510) 337-9335

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Well Abandonment Approval**
Shell Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306
Cambria Project #240-0554

Dear Ms. Hugo:

This letter documents your December 4, 1997 conversation with Paul Waite of Cambria Environmental Technology Inc. (Cambria). As we discussed, Shell Oil Products Company (Shell) is conducting renovation activities at the site referenced above. The site buildings and above-ground improvements have been removed, although the underground storage tanks are still in place. The construction activities are proceeding rapidly because of concerns about excessive rains this winter. Shell wants to pave the lot and pour the concrete foundation of the future building as soon as possible to protect the site from being saturated during the rainy season.

In order to continue construction activities at the site, two existing monitoring wells (MW-3 and MW-6) have to be abandoned because they are within the footprint of the planned building. On December 4, 1997, you stated that we can proceed with the abandonment of these two wells by pressure grouting. We have scheduled the well abandonment for Friday, December 5, 1997 at 9:00 a.m.

As discussed, Shell will install two replacement wells in the approximate locations shown on the attached figure. Before pouring the concrete building pad, Shell will install a vapor barrier, consisting of layered plastic sheeting, underneath the building foundation. Shell will be ready to pour the building pad within the next week, and they will begin framing the building immediately thereafter. The building will be finished as early as February 1998. Before the building is occupied, Shell will conduct an initial risk evaluation for future building occupants.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
Ph: (510) 420-0700
Fax: (510) 420-9370

Susan Hugo
December 4, 1997

CAMBRIA

Please indicate that you approve of this scope of work by signing below and returning this letter to Cambria by facsimile at (510) 420-9170 as soon as possible.

Thank you for your assistance. Please call if you have any questions.

Sincerely,
Cambria Environmental Technology, Inc.



Paul Waite
Project Engineer

**Authorization to Proceed with Well Abandonment
Shell Service Station
3420 San Pablo Avenue, Oakland, California**

Approved by [name]	Signature	Date
Alameda County Dept. of Environmental Health		

- cc: A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553,
Fax (510) 335-5029
- Ray Newsome, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553,
Fax (510) 335-5016
- Alvin Kan, Alameda County Public Works Department, 951 Turner Court, Suite 300, Hayward,
California 94545-2651, Fax (510) 670-5262

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CAMBRIA

STID 381

November 17, 1997

Via Facsimile
(510) 337-9335

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Well Abandonment Request**
Shell Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306
Cambria Project #240-0554

Dear Ms. Hugo:

As we discussed today, Shell Oil Products Company (Shell) is conducting renovation activities at the site referenced above. The site buildings and above-ground improvements have been removed, although the underground storage tanks are still in place. The construction activities are proceeding rapidly because of concerns about excessive rains this winter.

Shell wants to protect the soil at the site from being saturated by rain this winter. They will be paving most of the lot this week. In addition, Shell would like to pour the foundation for the planned service station building this week. The footprint of the planned building is over existing monitoring wells MW-3 and MW-6. We recommend abandoning those two wells by pressure grouting and installing two replacement wells. The attached figure shows the location of the building, the existing wells, and our recommended locations for replacement wells. We have submitted the permit to abandon the monitoring wells to the Alameda County Department of Public Works, but they require your approval to issue the permits.

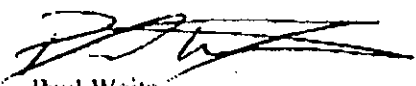
CAMBRIA
ENVIRONMENTAL

After you have reviewed the site plan, please contact me at (510) 420-3305 to discuss this project.
Thank you for your assistance.

TECHNOLOGY, INC.
1144 65TH STREET,

Sincerely,
Cambria Environmental Technology, Inc.

SUITE B
OAKLAND,


Paul Waite
Project Engineer

CA 94608

cc: A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553, ✓
Fax (510) 335-5029

PH: (510) 420-0700

Alvin Kan, Alameda County Public Works Department, 951 Turner Court, Suite 300, Hayward,
California 94545-2651, Fax (510) 670-5262

FAX: (510) 420-9170

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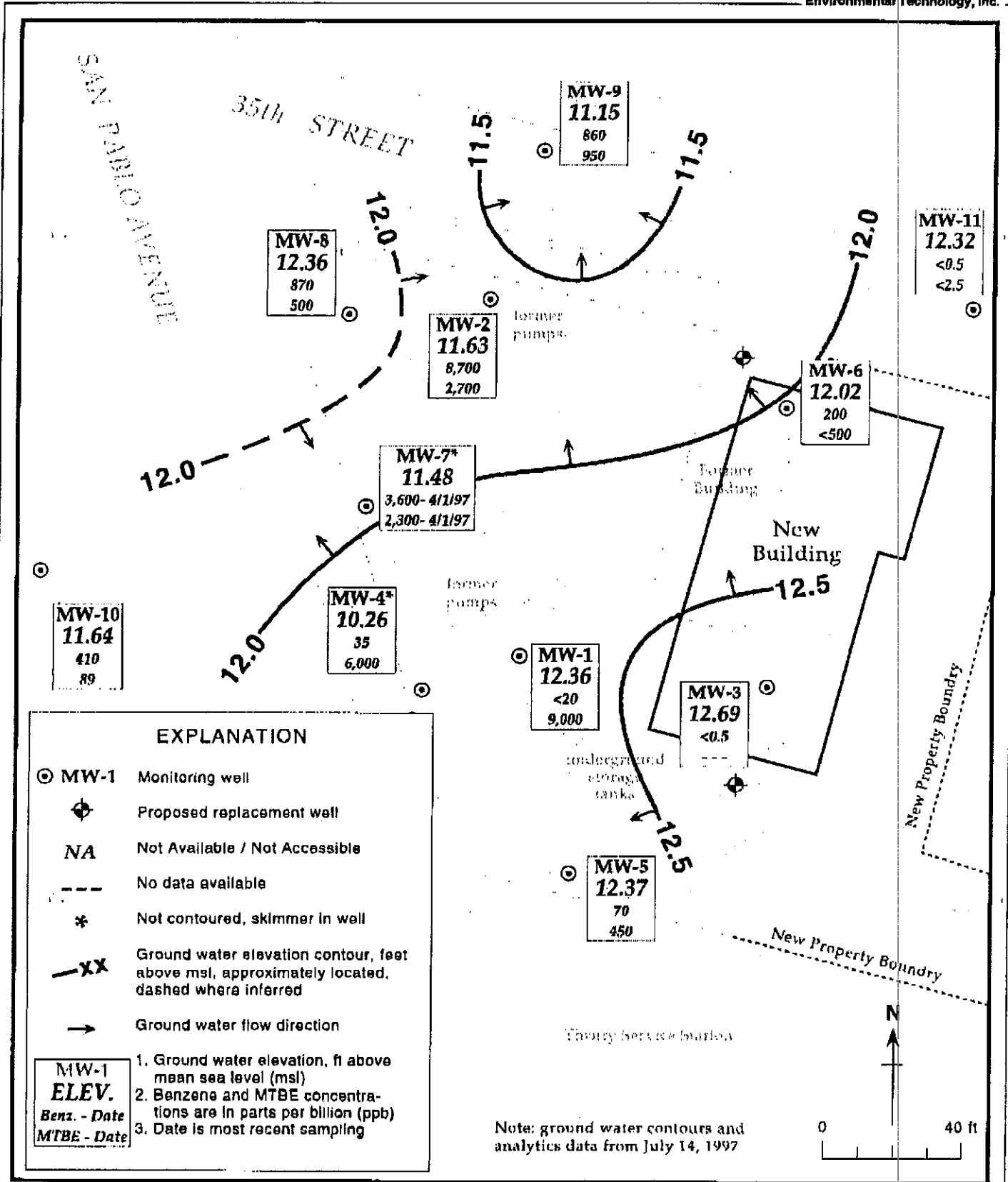


Figure 1. Future Building Location and Well Replacement - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

**CAMBRIA**

Via Facsimile
(510) 337-9335

November 14, 1997

Ms. Susan Hugo
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Construction Activities and Well Abandonments**
Shell Service Station
3420 San Pablo Avenue
Oakland, California
WIC #204-5508-5306
Cambria Project #240-0554

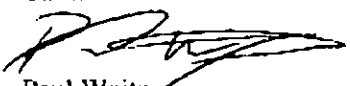
Dear Ms. Hugo:

Shell Oil Products Company (Shell) is conducting renovation activities at the site referenced above. The site buildings and above-ground improvements have been removed, although the underground storage tanks are still in place. Forty cubic yards of soil that were excavated during piping renovations have been hauled off the site and disposed. The site is currently being graded and approximately 1,000 additional cubic yards of soil will be removed from the site and disposed as early as November 15, 1997.

The site will be paved shortly and the entire station will be rebuilt during 1998. Because of the future construction, two of the existing ground water monitoring wells (MW-3 and MW-6) will have to be abandoned. We have submitted the permit to abandon the monitoring wells by pressure grouting to the Alameda County Department of Public Works, but they require your approval to issue the permits. The attached site plan shows the location of the monitoring wells. We would like to abandon these wells as soon as possible.

Today I left you a voice-mail message summarizing the above activities. Please contact me at (510) 420-3305 to discuss this project. Thank you for your assistance.

Sincerely,
Cambria Environmental Technology, Inc.



Paul Waite
Project Engineer

cc: A.E. (Alex) Perez, Shell Oil Products Company, P.O. Box 8080, Martinez, California 94553,
Fax (510) 335-5029
Alvin Kan, Alameda County Public Works Department, 951 Turner Court, Suite 300, Hayward,
California 94545-2651, Fax (510) 670-5262

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CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
Tel: (510) 420-0700
Fax: (510) 420-9170

white - env. health
yellow - facility
pink - files

ALAMEDA COUNTY, DEPARTMENT OF
ENVIRONMENTAL HEALTH

1131 Harbor Bay Pkwy
Alameda CA 94502
510/567-6700

Hazardous Materials Inspection Form

II, III

Site ID # 381 Site Name Shell Service Station Today's Date 6/26/97
Site Address 3420 San Pablo Ave.
City Oakland Zip 94608 Phone _____

____ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- ____ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
____ II. Hazardous Materials Business Plan, Acutely Hazardous Materials
 III. Under ground Storage Tanks

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

Comments:

On site for the removal of one fiberglass (550 gal) double walled waste oil tank. Product piping were also removed & soil samples collected from the trenches.

Leroy Griffin (Oakland Fire Dept. on site)
LER = 1% EOR = 2%

The tank appeared to be in good shape
Manifest # 93335180, Tank disposed at Erickson,
& hauled by Crosby & Brewster.

Flushed ground water present at the bottom of the excavation. Ground water sampling will be due to the close proximity of well MW-3 from the waste oil tank pit. Next sampling event (7/97) ground water sample from MW-3 must be analyzed for TPHg, d, m, BTEX, CHC, metals Pb, Cd, Cu, Zn, Ni, & MTBE

2 soil samples were collected from the excavation sidewalls at 7 ft. bgs.

Product piping samples must be analyzed for TPHg, d, BTEX, MTBE & Pb. (9/10 soil samples total)

Contact _____
Title _____
Signature _____

Inspector _____
Signature Jessica J. Hugg

II, III



ARCHITECTURE • ENGINEERING • ENVIRONMENTAL SERVICES

1390 Willow Pass Rd., Suite 420, Concord, CA 94520-5250 Telephone: (510) 609-6300 Facsimile: (510) 609-6304

Established 1966

BLYTHE R. WILSON
Managing Architect
Associate

June 16, 1997

~~Mr. Brian Oliva~~ *Susan Hugo*

Alameda County Environmental Health Department
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

JOHN W. JOHNSON
Architect
Co-President

RE: Shell Oil Company
Waste Oil Tank & Piping Removal
Youth Services Academy
3420 San Pablo Avenue
Oakland, CA
RHL JOB #6957.10

BRIAN F. ZITA
Architect
Co-President

JOHN B. HICKS
Architect
Vice President

Dear Mr. Oliva:

On behalf of Shell Oil Company we would like to make an application for a permit to remove the 550 gallon waste oil tank and product piping at the above referenced facility.

CECIL R. SPENCER
Architect
Vice President

Enclosed are three copies of the completed UST closure plan, 8 1/2 X 11 site plan, State A & B form, basic site safety plan, Contractor's license, Contractor's hazardous substance removal and workman's comp. insurance certificates and a check attached to this letter for six-hundred, thirty dollars (\$630.00) the deposit/refund fee to remove one UST.

BRUCE J. GREENFIELD
Managing Architect
Associate

Note that the existing underground fuel storage tanks will not be removed. These tanks will be emptied and temporarily closed for the duration of the demolition and subsequent rebuilding of the facility (approximately 6 months).

HOWARD G. KIMURA
Architect
Associate

If you have any questions, comments or require additional information or fees, don't hesitate to call me. Your expeditious attention to this matter is greatly appreciated as the demolition of the facility is scheduled to begin this week.

CHRIS LAWTON
Regional Manager
Associate

Sincere regards,
RHL Design Group, Inc.

Zaiga Gianino
Zaiga Gianino
Project Coordinator

JAMES E. PRESTEN
Regional Manager
Associate

Enclosures

cc: Mr. Ray Newsome - Shell Oil Company
file

82 16 11 11 11 11 11
57 JUN 17 AM 9:28
ENVIRONMENTAL
PROTECTION

GARY M. SEMLING
Managing Architect
Associate

STID 381-150 Susan L. Heigo

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
ENVIRONMENTAL PROTECTION DIVISION
1131 HARBOR BAY PARKWAY, RM 250
ALAMEDA, CA 94502-6577
PHONE # 510/567-6700
510/337-3335

ACCEPTED

Underground Storage Tank Closure Permit Application
Alameda County Division of Hazardous Materials
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and local Health Laws. Changes to your closure plans indicated by this Department are to assure compliance with State and local laws. The project proposed herein is now reserved for issuance of any required building permits for construction/destruction.

One copy of the accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any changes or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspections Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 72 hours prior to the following required inspections:

- Removal of Tank(s) and Piping
- Sampling
- Final Inspection

Issuance of a) permit to operate, b) permanent site closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS:

Contact Specialist

Please note change made on page 195 Susan L. Heigo

97 JUN 17 AM 9:28

RECEIVED
ENVIRONMENTAL
6/19/97

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1. Business Name San Pablo Avenue Shell
Business Owner or Contact Person (PRINT) Ray Newsome
2. Site Address 3420 San Pablo Avenue
City Oakland Zip 94608 Phone _____
3. Mailing Address 1390 Willow Pass Road, Suite 900
City Concord Zip 94520 Phone 510-675-6128
4. Land Owner Shell Oil Products Company
Address 1390 Willow Pass Rd. Ste 900 City, State Concord, CA Zip 94520
5. Generator name under which tank will be manifested Shell Oil Products Company
EPA I.D. No. under which tank will be manifested CA 7 981402688

** Product vapor piping will also be removed.*

6. Contractor Armer/Neiman & Associates
Address 1561 3rd Avenue
City Walnut Creek Phone 510-937-8501
License Type* A & B ID# 256896

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board.

7. Consultant (if applicable) RHL Design Group, Inc. ; Zaiga Gianino
Address 1390 Willow Pass Road, Suite 420
City Concord, CA 94520 Phone 510-609-6300

8. Contact Person for Investigation (if applicable)
Name Alex Perez Title Environmental Engineer
Phone 510-675-6168

9. Number of tanks being closed with this plan 1 (one)
Length of piping being removed under this plan < 75' (fuel & w/o piping)
Total number of underground tanks at this facility (**confirmed with owner or operator) 4 (four) ✓

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground storage tanks must be handled as hazardous waste **

a) Product/Residual Sludge/Rinsate Transporter

Name Crosby and Overton EPA I.D. No. CAD982524480

Hauler License No. 0025 License Exp. Date _____

Address 8430 Amelia Street

City Oakland State CA Zip 94621

b) Product/Residual Sludge/Rinsate Disposal Site

Name Erickson Incorporated EPA ID# CAD009466392

Address 255 Parr Boulevard

City Richmond State CA Zip 94801

c) Tank and Piping Transporter

Name Erickson Incorporated EPA I.D. No. CAD009466392
Hauler License No. 0019 License Exp. Date 5-31-96
Address 255 Parr Boulevard
City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson Incorporated EPA I.D. No. CAD009466392
Address 255 Parr Boulevard
City Richmond State CA Zip 94801

11. Sample Collector

Name Scott McCloud
Company Cambria Environmental Technology, Inc.
Address 1144 65th Street
City Oakland State CA Zip 94608 Phone 510-420-0700

12. Laboratory

Name Sequoia Analytical Labs
Address 404 N. Wiget Lane
City Walnut Creek State CA Zip 94598
State Certification No. 145

13. Have tanks or pipes leaked in the past? Yes[] No[X] Unknown[]

If yes, describe. _____

14. Describe methods to be used for rendering tank(s) inert:

15 pounds of CO2 in the form of dry ice for each 1,000 gallons
of tank capacity will be placed in each tank.

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert.

15. Tank History and Sampling Information *** (see instructions) ***

Tank		Material to be sampled (tank contents, soil, ground water)	Location and Depth of Samples
Capacity	Use History include date last used (estimated)		
550	-Tank installed 1985 -Motor waste oil -02/97 last use date (approx.)	soil, water if applicable	(1) confirmatory samples will be taken from beneath the waste oil tank two feet below native soil/backfill interface. One sample centrally located beneath the waste oil tank and one sample of native soil under piping if required.

One soil sample must be collected for every 20 linear feet of piping that is removed. A ground water sample must be collected if any ground water is present in the excavation.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated) 37 450 Cu.Yds.	Sampling Plan One composite sample, consisting of four individual brass sampling cylinders will be analyzed for every 50 cubic yards of soil. Samples will be analyzed for TPHG, BTXE and MTBE. If detectable amounts of petroleum hydrocarbons are found, samples will be tested for lead. <div style="text-align: right; font-size: small;"> TPHd ✓ TPHd C/A </div>

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

Will the excavated soil be returned to the excavation immediately after the tank removal? [] yes [] no [X] unknown

If yes, explain reasoning _____

If unknown at this point in time, please be aware that excavated soil may not be returned to the excavation without prior approval from Alameda County. This means that the contractor, consultant, or responsible party must communicate with the specialist IN ADVANCE of backfilling operations.

16. Chemical methods and associated detection limits to be used for analyzing samples:

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

17. Submit Site Health and Safety Plan (See Instructions)

Containment Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit	
			SOIL	WATER
WASTE OIL TANK (& FUEL) PIPING	GCFID 5030, 3550, SOIL GCFID 5030, 3510, WATER	8260, 5520 D & F, 8240 or 8010 & 8020, 8270, SOIL 5520 B & F, 602, 624 or 8260 & 601, 8270, WATER	1.0	50.0
			1.0	50.0
TPH G	GCFID 5030, 3550, SOIL GCFID 5030, 3510, WATER	8260, 5520 D & F, 8240 or 8010 & 8020, 8270, SOIL 5520 B & F, 602, 624 or 8260 & 601, 8270, WATER	50.0	5,000.0
TPH D			.005	0.5
TPH & BTX&E				
O & G				
BTX&E				
CL HC				
ICAP or AA				

TPH

Pb, Cd, Cr Zn Ni

MTBE on Piping samples

18. Submit Worker's Compensation Certificate copy
- Name of Insurer Republic Indemnity
19. Submit Plot Plan ***** (See Instructions) *****
20. Enclose Deposit (See Instructions)
21. **Report any leaks or contamination to this office within 5 days of discovery.**
The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form
22. Submit a closure report to this office within 60 days of the tank removal.
This report must contain all the information listed in item 22 of the instructions.
23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for "tank removed") in the upper right hand corner)

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information, in addition to that provided above, may be needed in order to obtain an approval from the Environmental Protection Division and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

CONTRACTOR INFORMATION

Name of Business Armer/Norman & Associates

Name of Individual Bill Armer

Signature  Date 6/9/97

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business Shell Oil Products Company

Name of Individual Ray Newsome, Senior Construction Engineer

Signature X  FOR RAY NEWSOME Date 6/9/97

BASIC SITE SAFETY PLAN
SAN PABLO AVENUE SHELL
3420 San Pablo Avenue
Oakland, California

SITE SAFETY PLAN - WASTE OIL TANK REMOVAL

Prior to removal of tanks a "Tail Gate" safety meeting will occur.

On site safety officer: Bill Armer, Armer/Norman & Associates, (510) 937-8501.

1. There is (1) 550 gallon double wall fiberglass waste oil tank to be removed at this site.
2. Drain and flush all piping into tank or appropriate container.
3. Remove all flammable liquids from the tank.
4. Excavate to the top of the tank and disconnect all associated piping.
5. Prior to complete excavation and tank removal the tanks must be inerted by the following method:

The vapors in the tank will be inerted/purged by adding solid carbon dioxide (dry ice) in the minimum amount of 15 lbs. per 1000 gal. of tank capacity. The dry ice should be crushed and distributed evenly over the greatest possible area to secure rapid evaporation. As the dry ice vaporizes, flammable vapors will flow out of the tank and may surround the area. Hence, observe all normal safety precautions regarding flammable vapors. Make sure that all of the dry ice has vaporized.

After the tank has been freed of vapors and verified to below 10% of the lower explosive level using a liquid explosive level meter (l.e.l.), prior to moving it from the site, plug or cap all holes. Use threaded (boiler) plugs to plug any corrosion leak holes. One tank fitting plug should have a 1/8" vent hole to prevent the tank from being subjected to an excessive pressure differential caused by extreme temperature changes.

6. Temporarily plug all tank openings, complete excavation and remove the tank. USE EXTREME CAUTION DURING REMOVAL OPERATION.
7. Remove tanks and secure at grade.
8. No fiberglass or steel tank shall be reused. Render all tanks useless after removing from site.

9. As an added precaution, regardless of condition, the tanks shall be labeled adjacent to the fill opening in legible letters as follows:
- "TANKS HAVE CONTAINED FLAMMABLE LIQUIDS
NOT GAS-FREE
NOT SUITABLE FOR FOOD OR DRINKING WATER"**
10. Assure tank disposal is in accordance with all governing regulations.
11. Shell Oil Products Company Representative and Contractor shall inspect open excavation for evidence of product leakage.
12. The Contractor shall have the following items on site:
- a) Fire extinguishers
 - b) LEL meter
 - c) First Aid Kit
 - d) Level D Protective Equipment:
Chemically resistant steel toe inner boots
Chemically protective outer boots
Safety glasses or goggles
Hard hat
Face shield
Gloves
13. When site is left unattended, the 6'-0" fence around the property shall be locked.

EMERGENCY PLAN

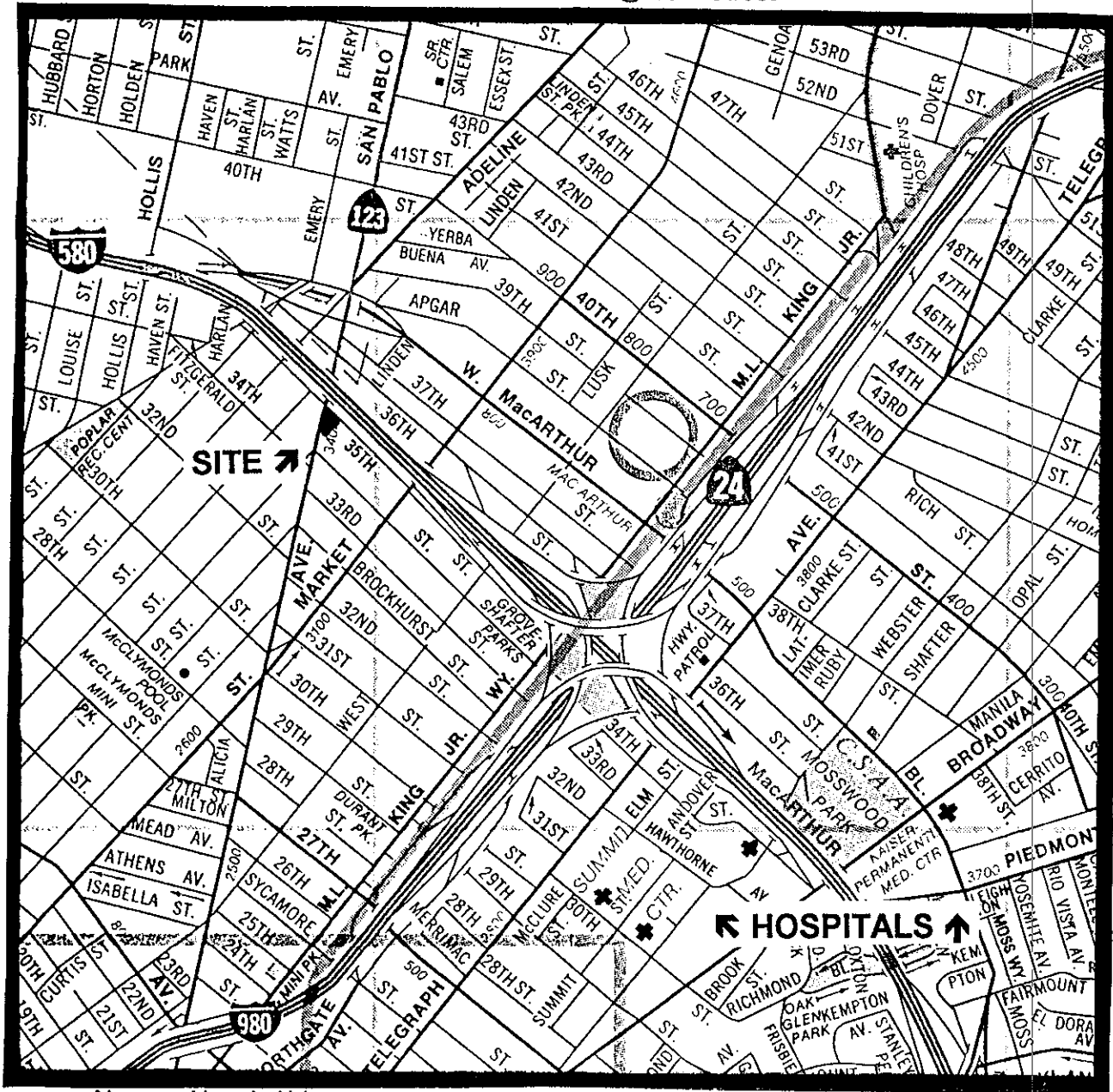
In the event of an accident, the Contractor shall proceed with the following steps:

- 1) Dial 911 and provide the following information:

"THERE IS A (FIRE OR DANGEROUS SPILL) AT 3420 SAN PABLO AVENUE, OAKLAND". If anyone is trapped or needs medical attention, tell the answering dispatcher. Stay on the phone and be prepared to answer any questions concerning the situation.
- 2) Attend any injured persons and direct incoming assistance to them.
- 3) Attempt to extinguish any fire, if you can do so safely. Have the extinguisher ready to use in the event of any dangerous spill. Try to contain any spill, or use absorbent on smaller spills.
- 4) Report to arriving emergency response personnel to provide them any information or assistance they may need.
- 5) Notify the following:

SHELL Representative, Ray Newsome	510/675-6128
Oakland Fire Department	510/444-3322
State Office of Emergency Services	800/852-7550
	(24 hrs)

HOSPITAL LOCATION MAP
 For Shell Oil Products Company
 San Pablo Avenue Shell
 3420 San Pablo Avenue @ 35th Street



Nearest Hospital(s):

SUMMIT MEDICAL CENTER
 350 Hawthorne Avenue
 Oakland, CA

KAISER PERMANENTE MEDICAL CENTER
 280 West MacArthur Boulevard
 Oakland, CA

Nearest Trauma Center:

HIGHLAND HOSPITAL
 1411 East 31st Street
 Oakland, CA



CONTRACTORS' STATE LICENSE BOARD

256896

Issued: 3-13-69

No. 256896

This license is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason. It becomes void if not renewed.

CONTRACTOR'S LICENSE



Pursuant to the provisions of Chapter 9 of Division 3 of the Business and Professions Code and the Rules and Regulations of the Contractors' State License Board, the Registrar of Contractors does hereby issue this license to:

ARMER/NORMAN & ASSOCIATES

to engage in the business or act in the capacity of a contractor in the following classification(s):

C-21 Wrecking
Sc-44 Solar

C-27 LANDSCAPING

A GENERAL ENGINEERING CONTRACTOR

B GENERAL BUILDING CONTRACTOR

[Handwritten signature]

Signature of licensee

WITNESS my hand and official seal this 2nd day of April, 1981

[Handwritten signature: J. Maloney]

Registrar of Contractors

Signature of person who qualified on behalf of the licensee

STATE OF CALIFORNIA
STATE AND CONSUMER SERVICES AGENCY CONTRACTORS STATE LICENSE BOARD



Building Quality



HAZARDOUS SUBSTANCES REMOVAL AND REMEDIAL ACTIONS CERTIFICATION

Pursuant to the provisions of Section 7058.7 of the Business and Professions Code, the Registrar of Contractors does hereby certify that the following qualifying person has successfully completed the hazardous substances removal and remedial actions examination.

Qualifier: WILLIAM ALLEN ARMER
License No.: 256896
Namestyle: ARMER/NORMAN & ASSOCIATES



WITNESS my hand and official seal this 25TH day of MARCH, 1991
[Handwritten signature: David R. Phillips]
Registrar of Contractors

This certification is the property of the Registrar of Contractors, is not transferable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason.

ACORD**CERTIFICATE OF INSURANCE**

DATE (MM/DD/YY)

4/01/97

PRODUCER

Acordia/Pettit Morry Co of CA
 12242 Business Park Drive
 Suite 15
 Truckee, CA 96161
 916-582-3636

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY LETTER **A** Republic Indemnity Co of Amer

COMPANY LETTER **B**COMPANY LETTER **C**COMPANY LETTER **D**COMPANY LETTER **E**

INSURED

Armer/Norman & Associates
 1561 - 3rd Ave.
 Walnut Creek

CA 94596

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT				GENERAL AGGREGATE PRODUCTS-COMP/OP AGG. PERSONAL & ADV. INJURY EACH OCCURENCE FIRE DAMAGE (Any one fire) MED. EXPENSE (Any one person)
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY				COMBINED SINGLE LIMIT BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE
	EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURENCE AGGREGATE
A	WORKER'S COMPENSATION AND EMPLOYER'S LIABILITY	130957-22	4/01/97	4/01/98	<input checked="" type="checkbox"/> STATUTORY LIMIT EACH ACCIDENT 1,000,000 DISEASE-POLICY LIMIT 1,000,000 DISEASE-EACH EMPLOYEE 1,000,000
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS

Per State Statute

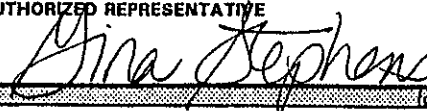
CERTIFICATE HOLDER

City of Oakland
 Development Services Dept.
 1330 Broadway
 Oakland, CA 94612

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE



026923000

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A
COMPLETE THIS FORM FOR EACH FACILITY/SITE



MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME San Pablo Avenue Shell		NAME OF OPERATOR Marcus Hasan		
ADDRESS 3420 San Pablo Avenue		NEAREST CROSS STREET 35th Street	PARCEL # (OPTIONAL)	
CITY NAME Oakland		STATE CA	ZIP CODE 94608	SITE PHONE # WITH AREA CODE 510-653-5709
<input checked="" type="checkbox"/> BOX TO INDICATE <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY DISTRICTS <input type="checkbox"/> COUNTY-AGENCY* <input type="checkbox"/> STATE-AGENCY* <input type="checkbox"/> FEDERAL-AGENCY*				
* If owner of UST is a public agency, complete the following: name of supervisor of division, section or office which operates the UST _____				
TYPE OF BUSINESS		<input checked="" type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 2 DISTRIBUTOR		<input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS
<input type="checkbox"/> 3 FARM <input type="checkbox"/> 4 PROCESSOR <input type="checkbox"/> 5 OTHER		# OF TANKS AT SITE 4		E. P. A. I. D. # (optional)

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) Hasan, Marcus		PHONE # WITH AREA CODE (510)653-5709		DAYS: NAME (LAST, FIRST) Montgomery, Joe		PHONE # WITH AREA CODE (510)653-5709	
NIGHTS: NAME (LAST, FIRST)		PHONE # WITH AREA CODE (510)653-7995		NIGHTS: NAME (LAST, FIRST)		PHONE # WITH AREA CODE (510)653-5709	

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME Shell Oil Products Company		CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS 1390 Willow Pass Road, Suite 900		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME Concord		STATE CA	ZIP CODE 94520	PHONE # WITH AREA CODE 510-675-6100

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER Shell Oil Products Company		CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS 1390 Willow Pass Road, Suite 900		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME Concord		STATE CA	ZIP CODE 94520	PHONE # WITH AREA CODE 510-675-6100

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY(TK) HQ **44-000074**

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED

<input checked="" type="checkbox"/> box to indicate	<input checked="" type="checkbox"/> 1 SELF-INSURED	<input type="checkbox"/> 2 GUARANTEE	<input type="checkbox"/> 3 INSURANCE	<input type="checkbox"/> 4 SURETY BOND	<input type="checkbox"/> 5 LETTER OF CREDIT	<input type="checkbox"/> 6 EXEMPTION	<input type="checkbox"/> 7 STATE FUND
	<input type="checkbox"/> 8 STATE FUND & CHIEF FINANCIAL OFFICER LETTER	<input type="checkbox"/> 9 STATE FUND & CERTIFICATE OF DEPOSIT	<input type="checkbox"/> 10 LOCAL GOVT. MECHANISM	<input type="checkbox"/> 99 OTHER			

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. II. III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE) X S.T. Kirk for Shell Oil Products Co.	TANK OWNER'S TITLE Construction Engineer	DATE MONTH/DAY/YEAR 6/9/97
--	--	--------------------------------------

LOCAL AGENCY USE ONLY

COUNTY # <input type="text"/>	JURISDICTION # <input type="text"/>	FACILITY # <input type="text"/>
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: San Pablo Avenue Shell - 3420 San Pablo Ave. Oakland

I. TANK DESCRIPTION COMPLETE ALL ITEMS -- SPECIFY IF UNKNOWN	
A. OWNER'S TANK I. D. #	B. MANUFACTURED BY: <u>Owens Corning</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>1985</u>	D. TANK CAPACITY IN GALLONS: <u>550</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.			
A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input checked="" type="checkbox"/> 4 OIL	B. <input type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input checked="" type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 1c MIDGRADE UNLEADED
			<input type="checkbox"/> 2 LEADED
			<input type="checkbox"/> 3 DIESEL
			<input type="checkbox"/> 4 GASAHOL
			<input type="checkbox"/> 5 JET FUEL
			<input type="checkbox"/> 6 AVIATION GAS
			<input type="checkbox"/> 7 METHANOL
			<input type="checkbox"/> 8 M85
			<input checked="" type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED <u>Motor Waste Oil</u>			C. A. S. #:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E			
A. TYPE OF SYSTEM	<input checked="" type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 5 INTERNAL BLADDER SYSTEM
	<input type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SINGLE WALL IN A VAULT	<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input checked="" type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING OR COATING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 4 PHENOLIC LINING
		<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. EXTERIOR CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
		<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL, etc.	SPILL CONTAINMENT INSTALLED (YEAR) <u>1985</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>N/A</u>
	DROP TUBE YES ___ NO <input checked="" type="checkbox"/>		DISPENSER CONTAINMENT YES ___ NO <input checked="" type="checkbox"/>
	STRIKER PLATE YES <input checked="" type="checkbox"/> NO ___		

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE					
A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A <u>U</u> 3 GRAVITY	A U 4 FLEXIBLE PIPING	A U 99 OTHER
B. CONSTRUCTION	A U 1 SINGLE WALL	A <u>U</u> 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN	A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A U 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A <u>U</u> 4 FIBERGLASS PIPE	
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP	
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN	A U 99 OTHER	
D. LEAK DETECTION	<input type="checkbox"/> 1 MECHANICAL LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input checked="" type="checkbox"/> 3 CONTINUOUS INTERSTITIAL MONITORING	<input type="checkbox"/> 4 ELECTRONIC LINE LEAK DETECTOR	<input type="checkbox"/> 5 AUTOMATIC PUMP SHUTDOWN
				<input type="checkbox"/> 99 OTHER	

V. TANK LEAK DETECTION					
<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 MANUAL INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING	<input type="checkbox"/> 6 ANNUAL TANK TESTING
<input checked="" type="checkbox"/> 7 CONTINUOUS INTERSTITIAL MONITORING	<input type="checkbox"/> 8 SIR	<input type="checkbox"/> 9 WEEKLY MANUAL TANK GAUGING	<input type="checkbox"/> 10 MONTHLY TANK TESTING	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)		
1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>2/97</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>Ø</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE) <u>X S. T. Kirk for Shell Oil Products Co.</u>	DATE <u>6/9/97</u>
--	--------------------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW				
STATE I.D. #	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE		PERMIT EXPIRATION DATE	

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A
COMPLETE THIS FORM FOR EACH FACILITY/SITE



MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME San Pablo Avenue Shell		NAME OF OPERATOR Marcus Hasan		
ADDRESS 3420 San Pablo Avenue		NEAREST CROSS STREET 35th Street	PARCEL # (OPTIONAL)	
CITY NAME Oakland		STATE CA	ZIP CODE 94608	SITE PHONE # WITH AREA CODE 510-653-5709
<input checked="" type="checkbox"/> BOX TO INDICATE <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY DISTRICTS <input type="checkbox"/> COUNTY-AGENCY* <input type="checkbox"/> STATE-AGENCY* <input type="checkbox"/> FEDERAL-AGENCY*				
* If owner of UST is a public agency, complete the following: name of supervisor of division, section or office which operates the UST _____				
TYPE OF BUSINESS		<input checked="" type="checkbox"/> 1 GAS STATION	<input type="checkbox"/> 2 DISTRIBUTOR	<input type="checkbox"/> 3 FARM
		<input type="checkbox"/> 4 PROCESSOR	<input type="checkbox"/> 5 OTHER	
		<input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE 4	E. P. A. I. D. # (optional)

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) Hasan, Marcus		PHONE # WITH AREA CODE (510)653-5709		DAYS: NAME (LAST, FIRST) Montgomery, Joe		PHONE # WITH AREA CODE (510)653-5709	
NIGHTS: NAME (LAST, FIRST)		PHONE # WITH AREA CODE (510)653-7995		NIGHTS: NAME (LAST, FIRST)		PHONE # WITH AREA CODE (510)653-5709	

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME Shell Oil Products Company		CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS 1390 Willow Pass Road, Suite 900		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME Concord		STATE CA	ZIP CODE 94520	PHONE # WITH AREA CODE 510-675-6100

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER Shell Oil Products Company		CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS 1390 Willow Pass Road, Suite 900		<input checked="" type="checkbox"/> box to indicate <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL-AGENCY <input type="checkbox"/> STATE-AGENCY <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> FEDERAL-AGENCY		
CITY NAME Concord		STATE CA	ZIP CODE 94520	PHONE # WITH AREA CODE 510-675-6100

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ **44-000074**

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED

<input checked="" type="checkbox"/> box to indicate	<input checked="" type="checkbox"/> 1 SELF-INSURED	<input type="checkbox"/> 2 GUARANTEE	<input type="checkbox"/> 3 INSURANCE	<input type="checkbox"/> 4 SURETY BOND	<input type="checkbox"/> 5 LETTER OF CREDIT	<input type="checkbox"/> 6 EXEMPTION	<input type="checkbox"/> 7 STATE FUND
	<input type="checkbox"/> 8 STATE FUND & CHIEF FINANCIAL OFFICER LETTER	<input type="checkbox"/> 9 STATE FUND & CERTIFICATE OF DEPOSIT	<input type="checkbox"/> 10 LOCAL GOVT. MECHANISM	<input type="checkbox"/> 99 OTHER			

VI. LEGAL NOTIFICATION AND BILLING ADDRESS

Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. II. III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE) X S.T. Kirk for Shell Oil Products Co.	TANK OWNER'S TITLE Construction Engineer	DATE MONTH/DAY/YEAR 6/9/97
--	--	--------------------------------------

LOCAL AGENCY USE ONLY

COUNTY # <input type="text"/>	JURISDICTION # <input type="text"/>	FACILITY # <input type="text"/>
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: San Pablo Avenue Shell - 3420 San Pablo Ave. Oakland

I. TANK DESCRIPTION COMPLETE ALL ITEMS -- SPECIFY IF UNKNOWN

A. OWNER'S TANK I. D. #	B. MANUFACTURED BY: <u>Owens Corning</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>1985</u>	D. TANK CAPACITY IN GALLONS: <u>550</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input checked="" type="checkbox"/> 4 OIL	B. <input type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input checked="" type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 1c MIDGRADE UNLEADED	<input type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 8 M85
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED <u>Motor Waste Oil</u>			<input type="checkbox"/> 2 LEADED	<input checked="" type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)	C. A. S. #:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E

A. TYPE OF SYSTEM	<input checked="" type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input type="checkbox"/> 5 INTERNAL BLADDER SYSTEM	<input type="checkbox"/> 95 UNKNOWN
	<input type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SINGLE WALL IN A VAULT	<input type="checkbox"/> 99 OTHER	
B. TANK MATERIAL (Primary Tank)	<input type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input checked="" type="checkbox"/> 3 FIBERGLASS	<input type="checkbox"/> 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM	<input type="checkbox"/> 8 100% METHANOL COMPATIBLE W/FRP
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING OR COATING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING	<input type="checkbox"/> 4 PHENOLIC LINING
	<input type="checkbox"/> 5 GLASS LINING	<input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___				
D. EXTERIOR CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP	<input checked="" type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL, etc.	SPILL CONTAINMENT INSTALLED (YEAR) <u>1985</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>N/A</u>	
	DROP TUBE YES ___ NO <input checked="" type="checkbox"/>		STRIKER PLATE YES <input checked="" type="checkbox"/> NO ___	
			DISPENSER CONTAINMENT YES ___ NO <input checked="" type="checkbox"/>	

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A <u>U</u> 3 GRAVITY	A U 4 FLEXIBLE PIPING	A U 99 OTHER
B. CONSTRUCTION	A U 1 SINGLE WALL	A <u>U</u> 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN	A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A U 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A <u>U</u> 4 FIBERGLASS PIPE	
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP	
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN	A U 99 OTHER	
D. LEAK DETECTION	<input type="checkbox"/> 1 MECHANICAL LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input checked="" type="checkbox"/> 3 CONTINUOUS INTERSTITIAL MONITORING	<input type="checkbox"/> 4 ELECTRONIC LINE LEAK DETECTOR	<input type="checkbox"/> 5 AUTOMATIC PUMP SHUTDOWN
				<input type="checkbox"/> 99 OTHER	

V. TANK LEAK DETECTION

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 MANUAL INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VADOZE MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING	<input type="checkbox"/> 6 ANNUAL TANK TESTING
<input checked="" type="checkbox"/> 7 CONTINUOUS INTERSTITIAL MONITORING	<input type="checkbox"/> 8 SIR	<input type="checkbox"/> 9 WEEKLY MANUAL TANK GAUGING	<input type="checkbox"/> 10 MONTHLY TANK TESTING	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>2/97</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>0</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
---	---	---

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE) <u>X S. T. Kirk for Shell Oil Products Co.</u>	DATE <u>6/9/97</u>
--	--------------------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE		

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED. FORM C MUST BE COMPLETED FOR INSTALLATIONS. THIS FORM SHOULD BE ACCOMPANIED BY A PLOT PLAN. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

WIC# 5508-5306

I-580 FREEWAY OVERPASS

35TH STREET

1
2
3
4
5
6
7
8
9

SAN PABLO AVENUE

BLUE BIRD LIQUORS

PRODUCT/VR PIPING
TO BE REMOVED

550 GALLON DOUBLE
WALL FIBERGLASS
WASTE OIL TANK
TO BE REMOVED

RESIDENTIAL

THRIFTY GAS STATION



A B C D E F G H I J

SELF SERVICE STATION LEGEND

SCALE: 1"=40'-0"±

DATE: 8/5/96

▲ MONITORING WELLS
△ OBSERVATION WELLS

☐ STORM DRAIN

⊙ FIRE HYDRANT
- FENCE

SITE PLAN
SAN PABLO AVE SHELL
3420 SAN PABLO AVENUE
OAKLAND, CALIFORNIA 94608

WIC# 5508-5306



SHELL OIL COMPANY

ROBERT H. LEE & ASSOCIATES, INC.
ARCHITECTURE ENGINEERING ENVIRONMENTAL SERVICES
1177 N. MADRONA BOULEVARD PETAHEMA, CA 94861 (907) 761-1887

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: San Pablo Avenue Shell - 3420 San Pablo Ave. Oakland

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN	
A. OWNER'S TANK I. D. #	B. MANUFACTURED BY: <u>Owens Corning</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>1985</u>	D. TANK CAPACITY IN GALLONS: <u>550</u>

II. TANK CONTENTS IF A-1 IS MARKED, COMPLETE ITEM C.		
A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL <input type="checkbox"/> 2 PETROLEUM <input type="checkbox"/> 3 CHEMICAL PRODUCT	<input checked="" type="checkbox"/> 4 OIL <input type="checkbox"/> 80 EMPTY <input type="checkbox"/> 95 UNKNOWN	B. <input type="checkbox"/> 1 PRODUCT <input checked="" type="checkbox"/> 2 WASTE
C. <input type="checkbox"/> 1a REGULAR UNLEADED <input type="checkbox"/> 3 DIESEL <input type="checkbox"/> 6 AVIATION GAS <input type="checkbox"/> 1b PREMIUM UNLEADED <input type="checkbox"/> 4 GASAHOL <input type="checkbox"/> 7 METHANOL <input type="checkbox"/> 1c MIDGRADE UNLEADED <input type="checkbox"/> 5 JET FUEL <input type="checkbox"/> 8 M85 <input type="checkbox"/> 2 LEADED <input checked="" type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW)		
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED <u>Motor Waste Oil</u>		C. A. S. #:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D AND E		
A. TYPE OF SYSTEM <input checked="" type="checkbox"/> 1 DOUBLE WALL <input type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER <input type="checkbox"/> 4 SINGLE WALL IN A VAULT	<input type="checkbox"/> 5 INTERNAL BLADDER SYSTEM <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank) <input type="checkbox"/> 1 BARE STEEL <input type="checkbox"/> 5 CONCRETE <input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 2 STAINLESS STEEL <input type="checkbox"/> 6 POLYVINYL CHLORIDE <input type="checkbox"/> 10 GALVANIZED STEEL	<input checked="" type="checkbox"/> 3 FIBERGLASS <input type="checkbox"/> 7 ALUMINUM <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER
C. INTERIOR LINING OR COATING <input type="checkbox"/> 1 RUBBER LINED <input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 2 ALKYD LINING <input checked="" type="checkbox"/> 6 UNLINED	<input type="checkbox"/> 3 EPOXY LINING <input type="checkbox"/> 4 PHENOLIC LINING <input type="checkbox"/> 95 UNKNOWN <input type="checkbox"/> 99 OTHER
D. EXTERIOR CORROSION PROTECTION <input type="checkbox"/> 1 POLYETHYLENE WRAP <input type="checkbox"/> 5 CATHODIC PROTECTION		<input type="checkbox"/> 2 COATING <input type="checkbox"/> 91 NONE
E. SPILL AND OVERFILL, etc. SPILL CONTAINMENT INSTALLED (YEAR) <u>1985</u> OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) <u>n/a</u> DROP TUBE YES ___ NO <input checked="" type="checkbox"/> STRIKER PLATE YES <input checked="" type="checkbox"/> NO ___ DISPENSER CONTAINMENT YES ___ NO <input checked="" type="checkbox"/>		

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE	
A. SYSTEM TYPE	A U 1 SUCTION A U 2 PRESSURE A <u>U</u> 3 GRAVITY A U 4 FLEXIBLE PIPING A U 99 OTHER
B. CONSTRUCTION	A U 1 SINGLE WALL A <u>U</u> 2 DOUBLE WALL A U 3 LINED TRENCH A U 95 UNKNOWN A U 99 OTHER
C. MATERIAL AND CORROSION PROTECTION	A U 1 BARE STEEL A U 5 ALUMINUM A U 9 GALVANIZED STEEL
D. LEAK DETECTION	A U 2 STAINLESS STEEL A U 6 CONCRETE A U 10 CATHODIC PROTECTION
A U 3 POLYVINYL CHLORIDE (PVC) A <u>U</u> 4 FIBERGLASS PIPE A U 7 STEEL W/ COATING A U 8 100% METHANOL COMPATIBLE W/FRP A U 99 OTHER	
D. LEAK DETECTION <input type="checkbox"/> 1 MECHANICAL LINE LEAK DETECTOR <input type="checkbox"/> 2 LINE TIGHTNESS TESTING <input checked="" type="checkbox"/> 3 CONTINUOUS INTERSTITIAL MONITORING <input type="checkbox"/> 4 ELECTRONIC LINE LEAK DETECTOR <input type="checkbox"/> 5 AUTOMATIC PUMP SHUTDOWN <input type="checkbox"/> 99 OTHER	

V. TANK LEAK DETECTION	
<input type="checkbox"/> 1 VISUAL CHECK <input checked="" type="checkbox"/> 7 CONTINUOUS INTERSTITIAL MONITORING	<input type="checkbox"/> 2 MANUAL INVENTORY RECONCILIATION <input type="checkbox"/> 8 SIR
<input type="checkbox"/> 3 VADOZE MONITORING <input type="checkbox"/> 9 WEEKLY MANUAL TANK GAUGING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING <input type="checkbox"/> 10 MONTHLY TANK TESTING
<input type="checkbox"/> 5 GROUND WATER MONITORING <input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 6 ANNUAL TANK TESTING <input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN-PLACE)		
1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>2/97</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>0</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE) <u>X D. T. Kirk for Shell Oil Products Co.</u>	DATE <u>6/9/97</u>
--	--------------------

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW			
STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #
PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE	

1 WAST OIL TANK REMOVE 6/26/97
 S. Hugo



STATE OF CALIFORNIA
 STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM A
 COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM

<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED SITE
<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

DBA OR FACILITY NAME San Pablo Avenue Shell		NAME OF OPERATOR Marcus Hasan	
ADDRESS 3420 San Pablo Avenue		NEAREST CROSS STREET 35th Street	PARCEL # (OPTIONAL)
CITY NAME Oakland	STATE CA	ZIP CODE 94608	SITE PHONE # WITH AREA CODE 510-653-5709
<input checked="" type="checkbox"/> BOX TO INDICATE <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL-AGENCY DISTRICTS <input type="checkbox"/> COUNTY-AGENCY* <input type="checkbox"/> STATE-AGENCY* <input type="checkbox"/> FEDERAL-AGENCY*			
TYPE OF BUSINESS		<input checked="" type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS	# OF TANKS AT SITE 4
<input checked="" type="checkbox"/> 1 GAS STATION	<input type="checkbox"/> 2 DISTRIBUTOR	E. P. A. I. D. # (optional)	
<input type="checkbox"/> 3 FARM	<input type="checkbox"/> 4 PROCESSOR	<input type="checkbox"/> 5 OTHER	

EMERGENCY CONTACT PERSON (PRIMARY) **EMERGENCY CONTACT PERSON (SECONDARY) - optional**

DAYS: NAME (LAST, FIRST) Hasan, Marcus	PHONE # WITH AREA CODE (510)653-5709	DAYS: NAME (LAST, FIRST) Montgomery, Joe	PHONE # WITH AREA CODE (510)653-5709
NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE (510)653-7995	NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE (510)653-5709

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME Shell Oil Products Company	CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS 1390 Willow Pass Road, Suite 900	<input checked="" type="checkbox"/> box to indicate	<input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> LOCAL-AGENCY
CITY NAME Concord	<input checked="" type="checkbox"/> CORPORATION	<input type="checkbox"/> PARTNERSHIP	<input type="checkbox"/> COUNTY-AGENCY
STATE CA	ZIP CODE 94520	PHONE # WITH AREA CODE 510-675-6100	

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER Shell Oil Products Company	CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS 1390 Willow Pass Road, Suite 900	<input checked="" type="checkbox"/> box to indicate	<input type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> LOCAL-AGENCY
CITY NAME Concord	<input checked="" type="checkbox"/> CORPORATION	<input type="checkbox"/> PARTNERSHIP	<input type="checkbox"/> COUNTY-AGENCY
STATE CA	ZIP CODE 94520	PHONE # WITH AREA CODE 510-675-6100	

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY(TK) HQ **44-000074**

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED

box to indicate

<input checked="" type="checkbox"/> 1 SELF-INSURED	<input type="checkbox"/> 2 GUARANTEE	<input type="checkbox"/> 3 INSURANCE	<input type="checkbox"/> 4 SURETY BOND	<input type="checkbox"/> 5 LETTER OF CREDIT	<input type="checkbox"/> 6 EXEMPTION	<input type="checkbox"/> 7 STATE FUND
<input type="checkbox"/> 8 STATE FUND & CHIEF FINANCIAL OFFICER LETTER	<input type="checkbox"/> 9 STATE FUND & CERTIFICATE OF DEPOSIT	<input type="checkbox"/> 10 LOCAL GOVT. MECHANISM	<input type="checkbox"/> 99 OTHER			

VI. LEGAL NOTIFICATION AND BILLING ADDRESS Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. II. III.

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

TANK OWNER'S NAME (PRINTED & SIGNATURE) X S.T. Kirk for Shell Oil Products Co.	TANK OWNER'S TITLE Construction Engineer	DATE MONTH/DAY/YEAR 6/9/97
--	--	--------------------------------------

LOCAL AGENCY USE ONLY

COUNTY # <input type="text"/>	JURISDICTION # <input type="text"/>	FACILITY # <input type="text"/>
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.
 OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

SHELL OIL CORPORATION

QUARTERLY REPORT TO

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD

Date of Report: April 21, 1992

Service Station WIC Number:	<u>204-5508-5306</u>
Site Address (Number, Street):	<u>3420 San Pablo</u>
City:	<u>Oakland</u>
County:	<u>Alameda</u>

Actions in the past three months:

Collected 1st quarter ground water samples and submitted 1st quarter monitoring report.

Actions planned for next three months:

Submit 2nd quarter monitoring report.

Soil Contamination defined? Y\N	<u>N</u>
Soil Clean-up in progress? Y\N	<u>N</u>
Free-product plume defined? Y\N	<u>NA</u>
Free-product cleanup in progress? Y\N	<u>NA</u>
Dissolved constituent plume defined? Y\N	<u>N</u>
Dissolved constituent cleanup in progress? Y\N	<u>N</u>

Contractor: Weiss Associates, Emeryville, California.

ALAMEDA COUNTY
HEALTH CARE SERVICES



AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, DIRECTOR

April 18, 1996

DEPARTMENT OF ENVIRONMENTAL HEALTH

1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510) 567-6777

Mr. R Jeff Granberry
Shell Oil Products Company
P.O. Box 4023
Concord, California 94524

RE: Shell Oil Company Sites

Dear Mr. Granberry:

Recently, reports for the Shell Oil Company sites have been submitted to different inspectors / case officers that are not the assigned case workers. I'm currently overseeing the investigation / cleanup of the following Shell Oil Company sites in this department:

<u>STID#</u>	<u>Site Name</u>	<u>Address</u>
3670	Melina Albany Shell	999 San Pablo Avenue, Albany
814	Bay Super Shell	1800 Powell Street, Emeryville
381	Shell Oil Company	3420 San Pablo Ave., Oakland RO 06
3613	Former Shell Oil	500 40th Street, Oakland
413	Pill Hill Shell	2800 Telegraph Ave., Oakland
3673	Shell Service Station	230 W MacArthur Blvd., Oakland
3618	Broadway Shell	5755 Broadway, Oakland

Please inform your consultants that all quarterly monitoring reports and work plans for the above mentioned sites should be submitted to my attention.

If you have any questions concerning this letter, please call me at (510) 567-6780.

Sincerely,

Susan L. Hugo
Senior Hazardous Materials Specialist

c: Jun Makishima, Interim Director, Environmental Health
Gordon Coleman, Acting Chief, Environmental Protection / files



Jeff Granberry

March 1, 1995

Dennis Byrne
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

SPH 381

Re: Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-0612-105

ENVIRONMENTAL
PROTECTION
GENERAL 15 PM 1:11

Dear Mr. Byrne:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1.) This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 2652.d. Included below are descriptions and results of activities performed in the first quarter 1995 and proposed work for the second quarter 1995.

<i>Hydrocarbon Removal Summary</i>	<i>Pounds Removed Past Quarter</i>	<i>Cumulative Pounds Removed</i>
Separate-phase Hydrocarbon	0.44	18.54

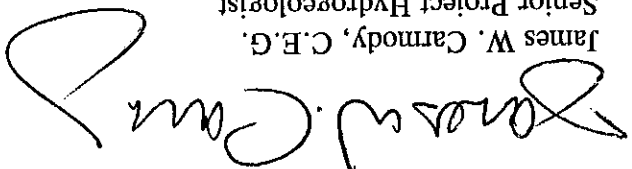
First Quarter 1995 Activities:

- Blaine Tech Services (BTS) of San Jose, California measured ground water depths and collected ground water samples from the wells. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- BTS removed a total of 0.44 pounds of separate-phase hydrocarbons (SPH) from skimmers in wells MW-4 and MW-7 and bailed SPH from well MW-6 this quarter (Table 1). To date, approximately 18.54 pounds of SPH have been removed by skimmers and additional bailing.
- Weiss Associates (WA) prepared a ground water elevation contour map for wells screened in the first water bearing zone (Figure 2). Since wells MW-1, MW-3, MW-4

cc: Dan Kirk, Shell Oil Company, P.O. Box 4023, Concord, California 94524
Lisa McCann, California Regional Water Quality Control Board, San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland, California 94612

Attachments: A - BTS' Ground Water Monitoring Report

James W. Carmody, C.E.G.
Senior Project Hydrogeologist



Grady S. Glasser
Technical Assistant



Weiss Associates
Sincerely,



Please call if you have any questions.

In most wells, ground water elevations have increased from 1.8 to 5.1 ft above ground water elevations recorded last quarter. This elevation increase has resulted in the reversal of the apparent ground water flow direction of the upper water-bearing zone beneath the northern portion of the site compared to fourth quarter 1994. We will monitor ground water elevations in upcoming quarters to assess whether this trend continues.

Conclusions and Recommendations:

- WA will submit a report presenting the results of the second quarter 1995 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, SPH removal data and ground water elevation contour maps.
- SPH skimmers are installed in wells MW-2, MW-4 and MW-7. The skimmers will be purged of hydrocarbons quarterly until no SPH are measured in these wells. SPH volumes removed will be tabulated in subsequent quarterly status reports.

Anticipated Second Quarter 1995 Activities:

and MW-5 are screened slightly deeper than the other site wells, these wells are contoured separately (Figure 3).

Dennis Byrne
March 1, 1995

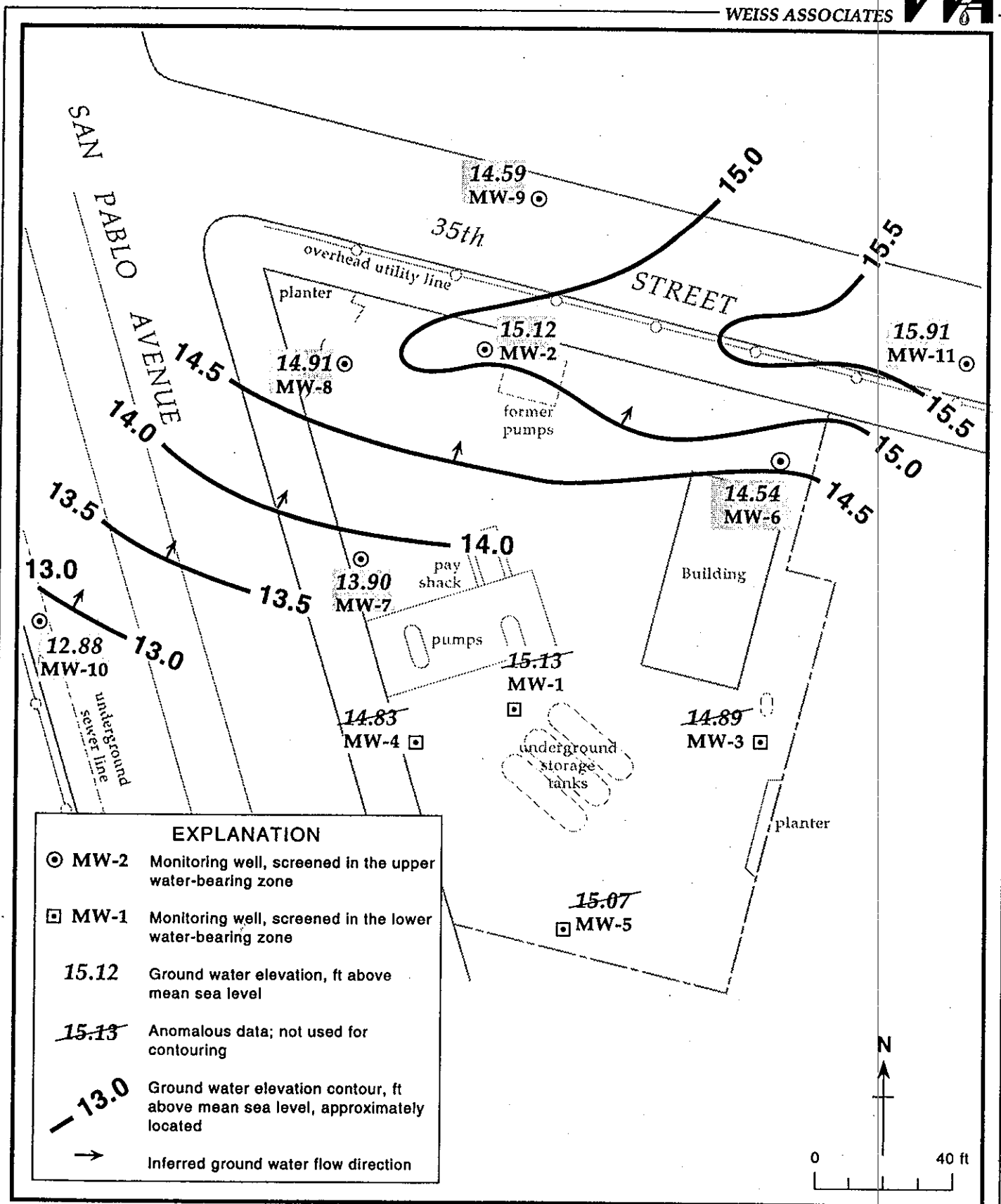
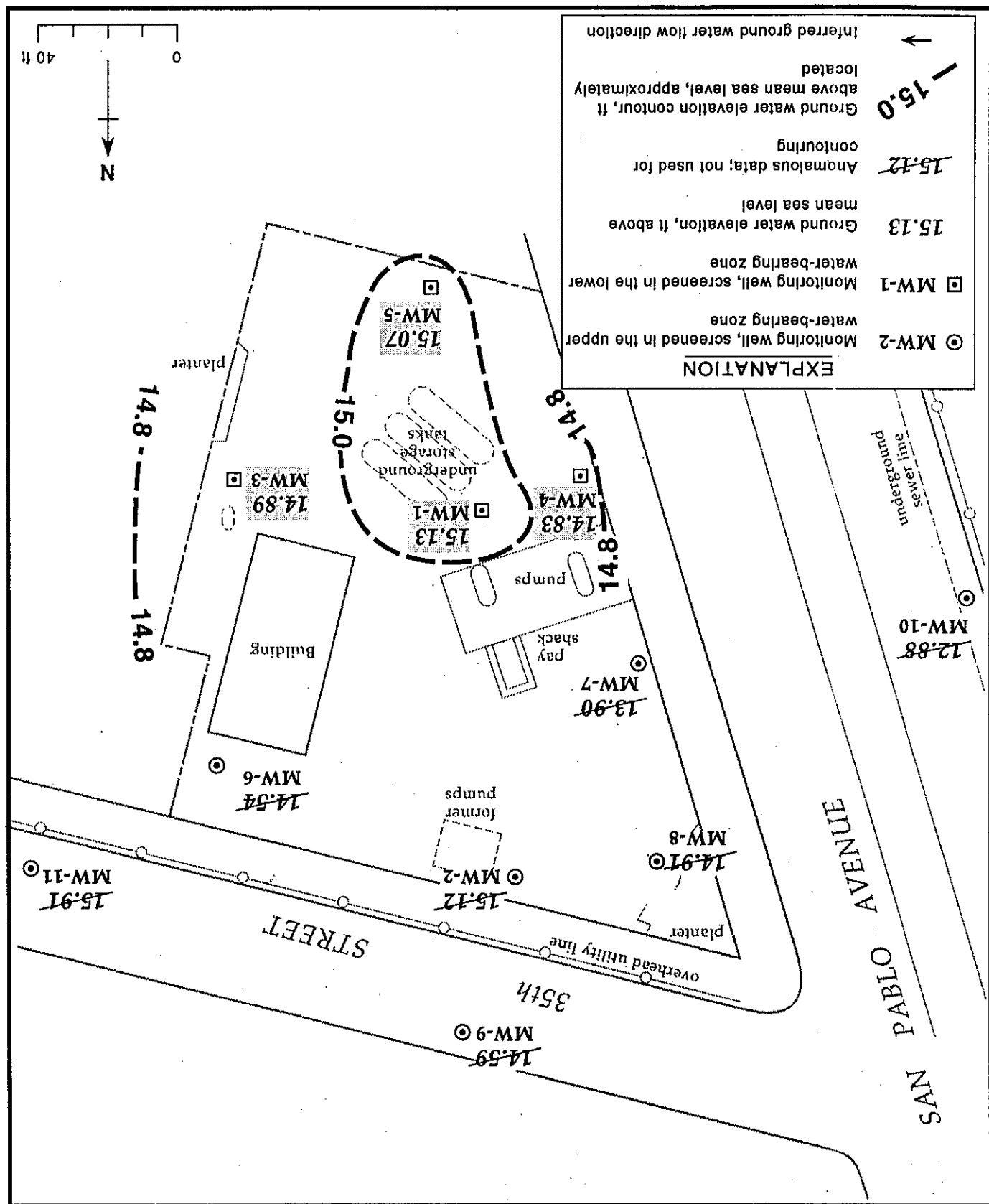


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours, Upper Water-Bearing Zone - January 3, 1995 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Figure 3. Monitoring Well Locations and Ground Water Elevation Contours, Lower Water-Bearing Zone - January 3, 1995 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California





December 21, 1994

Dennis Byrne
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway,
Suite 250
Alameda, California 94502-6577

510 381

ALCO
HAZMAT
DEC 22 PM 3:44

Re: Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-0612-104

Dear Mr. Byrne:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1.) This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 2652.d. Included below are descriptions and results of activities performed in the fourth quarter 1994 and proposed work for the first quarter 1995.

<i>Hydrocarbon Removal Summary</i>	<i>Pounds Removed Fourth Quarter 1994</i>	<i>Cumulative Pounds Removed</i>
Separate-phase Hydrocarbon	3.33	18.10

Fourth Quarter 1994 Activities:

- Blaine Tech Services (BTS) of San Jose, California measured ground water depths and collected ground water samples from the wells. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.
- BTS removed a total of 3.33 pounds of separate-phase hydrocarbons (SPHs) from skimmers in wells MW-4 and MW-7 and bailed SPHs from well MW-6 this quarter (Table 1). To date, approximately 18.10 pounds of SPHs have been removed by skimmers and additional bailing.

2

Dennis Byrne
December 21, 1994

- Weiss Associates (WA) prepared a ground water elevation contour map for wells screened in the first water bearing zone (Figure 2). Since wells MW-1, MW-3, MW-4 and MW-5 are screened slightly deeper than the other site wells, these wells are contoured separately (Figure 3).

Anticipated First Quarter 1995 Activities:

- WA will submit a report presenting the results of the first quarter 1995 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, SPH removal data and ground water elevation contour maps.
- SPH skimmers are installed in wells MW-2, MW-4 and MW-7. The skimmers will be purged of hydrocarbons quarterly until no SPHs are measured in these wells. SPH volumes removed will be tabulated in subsequent quarterly status reports.

Conclusions and Recommendations:

In most wells ground water elevations have decreased. This elevation decrease still continues to result in the reversal of the apparent ground water flow direction beneath the northern portion of the site compared to second quarter 1993. We will monitor ground water elevations in upcoming quarters to assess whether this trend continues.

Please call if you have any questions.

Sincerely,

Weiss Associates

J. Michael Asport
Staff Scientist I

James W. Carmody, C.E.G.
Senior Project Hydrogeologist



Attachments: A - BTS' Ground Water Monitoring Report

cc:

Dan Kirk, Shell Oil Company, P.O. Box 4023, Concord, California 94524
Lisa McCann, California Regional Water Quality Control Board, San Francisco Bay Region, 2101 Webster Street, Suite 500, Oakland, California 94612

JMA/WC:jma
1:581100120M94Q4R.WP

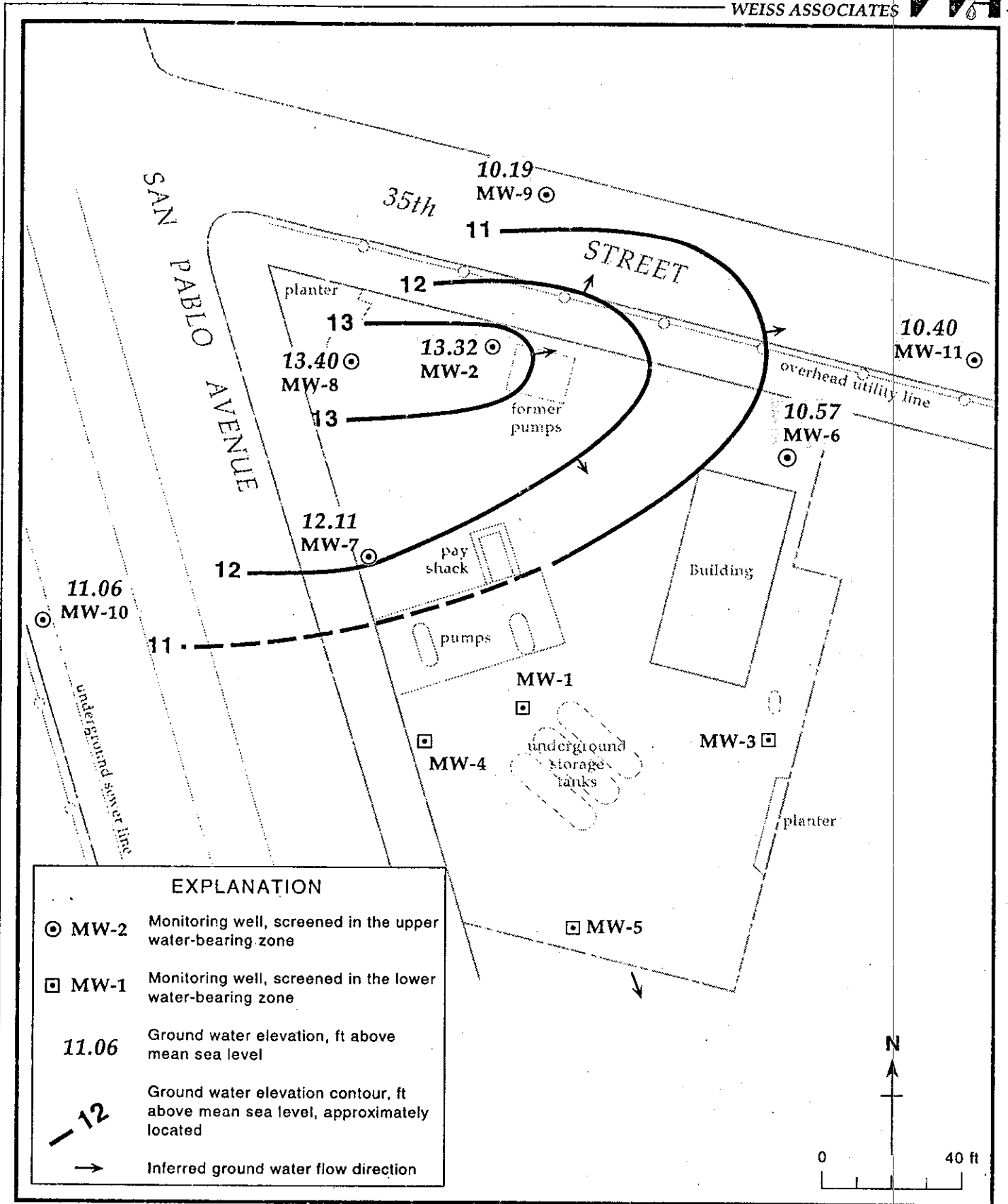
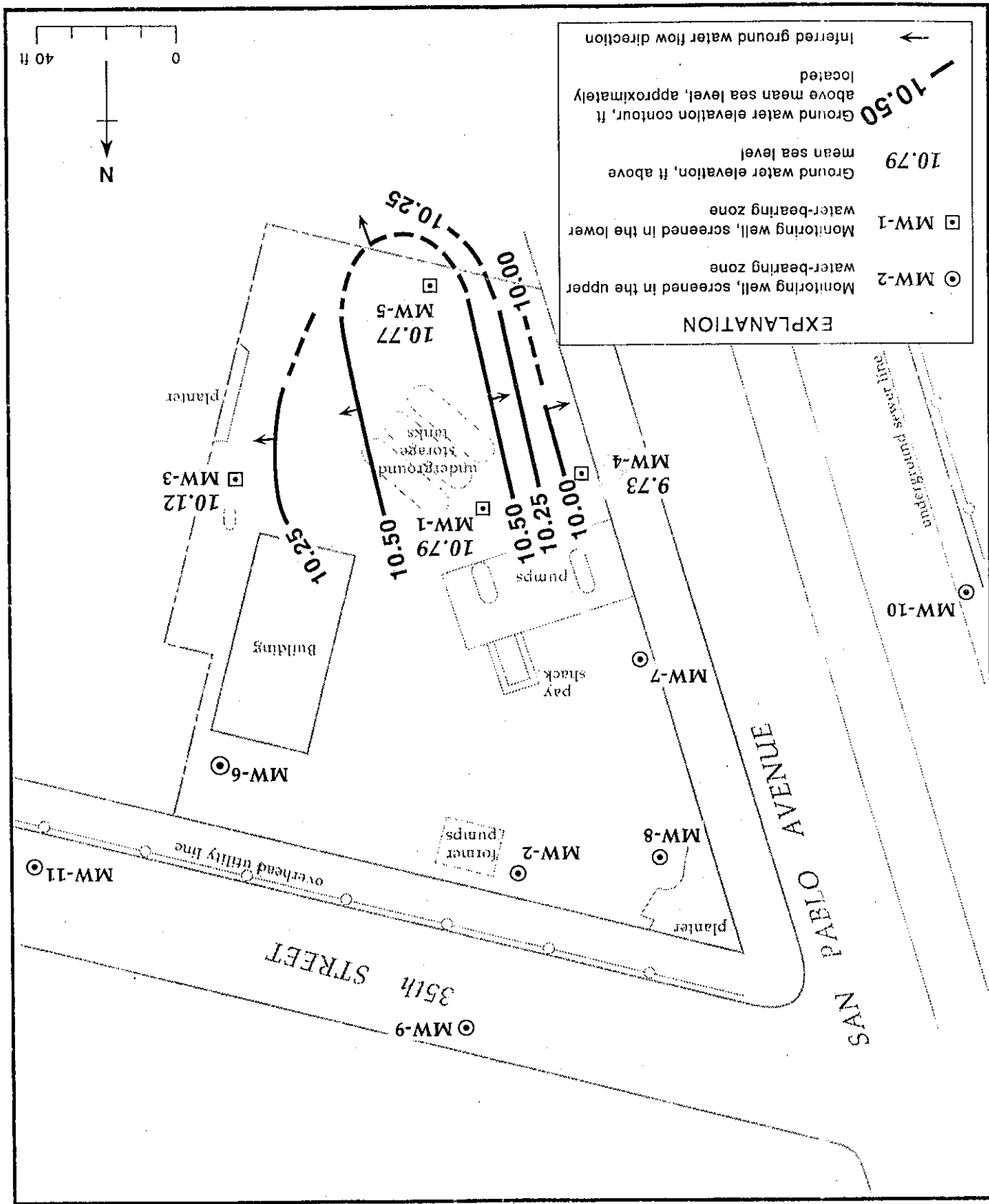


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours, Lower Water-Bearing Zone - October 27, 1994 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Figure 3. Monitoring Well Locations and Ground Water Elevation Contours, Lower Water-Bearing Zone - October 27, 1994 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California





October 4, 1994

STID 381

Dennis Byrne
Alameda County Department of
Environmental Health
1131 Harbor Bay Parkway,
Suite 250
Alameda, California 94502-6577

Re: Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-0612-104

ALCO
HAZMAT
91 OCT 13 PM 4:10

Dear Mr. Byrne:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1.) This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 2652.d. Included below are descriptions and results of activities performed in the third quarter 1994 and proposed work for the fourth quarter 1994.

<i>Hydrocarbon Removal Summary</i>	<i>Pounds Removed Second Quarter 1994</i>	<i>Cumulative Pounds Removed</i>
Separate-phase Hydrocarbon	0.07	14.77

Third Quarter 1994 Activities:

- Blaine Tech Services (BTS) of San Jose, California measured ground water depths and collected ground water samples from the wells. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.

- BTS removed a total of 0.07 pounds of separate-phase hydrocarbons (SPHs) from a skimmer in well MW-7 and bailed SPHs from well MW-6 this quarter (Table 1). To date, approximately 14.77 pounds of SPHs have been removed by skimmers and additional bailing.
- Weiss Associates (WA) prepared a ground water elevation contour map for wells screened in the first water bearing zone (Figure 2). Since wells MW-1, MW-3, MW-4 and MW-5 are screened slightly deeper than the other site wells, these wells are contoured separately (Figure 3).

Anticipated Fourth Quarter 1994 Activities:

- WA will submit a report presenting the results of the fourth quarter 1994 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, SPH removal data and ground water elevation contour maps.
- SPH skimmers are installed in wells MW-2, MW-4 and MW-7. The skimmers will be purged of hydrocarbons quarterly until no SPHs are measured in these wells. SPH volumes removed will be tabulated in subsequent quarterly status reports.

Conclusions and Recommendations:

In most wells ground water elevations have decreased. This elevation decrease still continues to result in the reversal of the apparent ground water flow direction beneath the northern portion of the site compared to second quarter 1993. We will monitor ground water elevations in upcoming quarters to assess whether this trend continues.

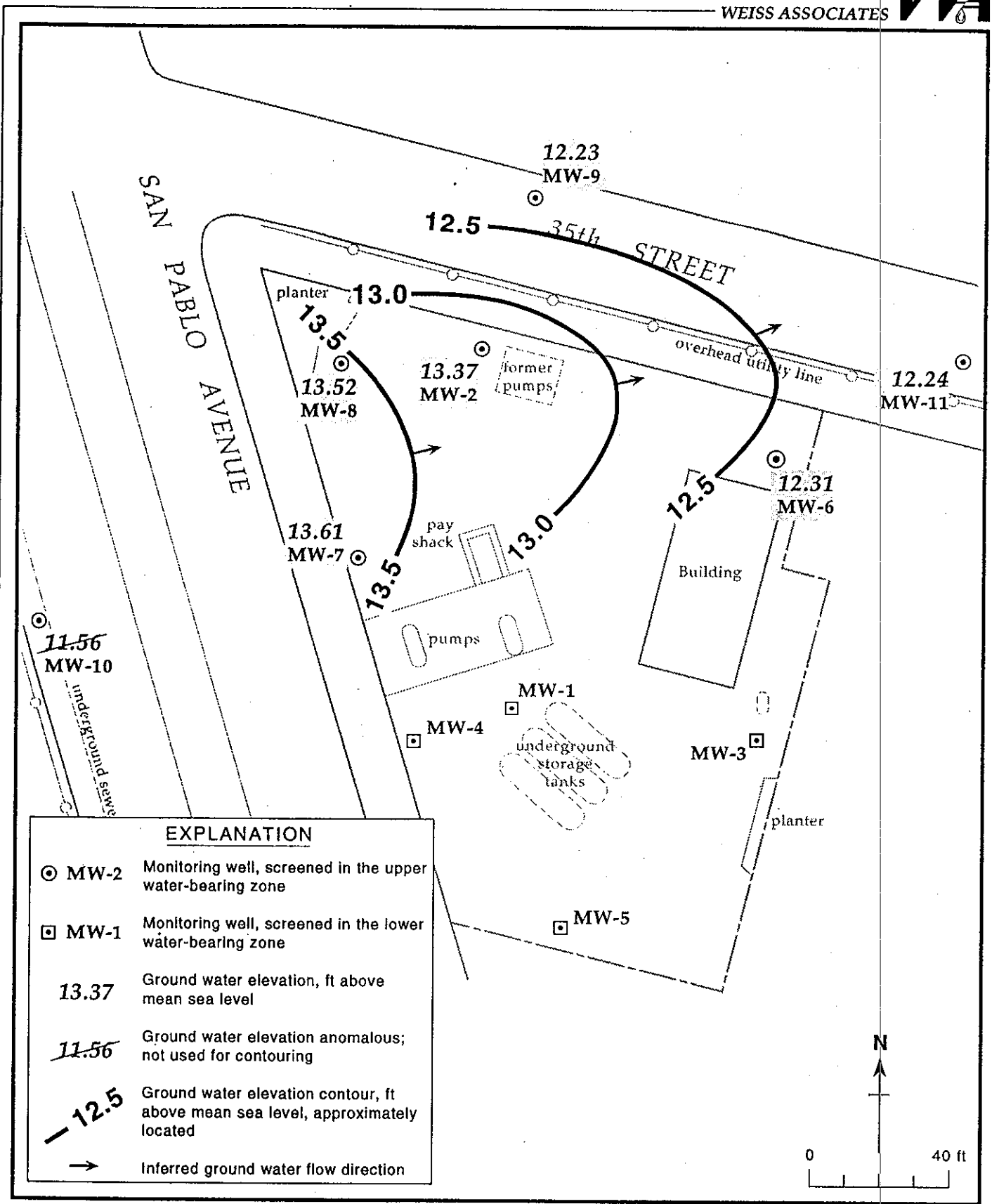


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours, Upper Water-Bearing Zone - July 19, 1994 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

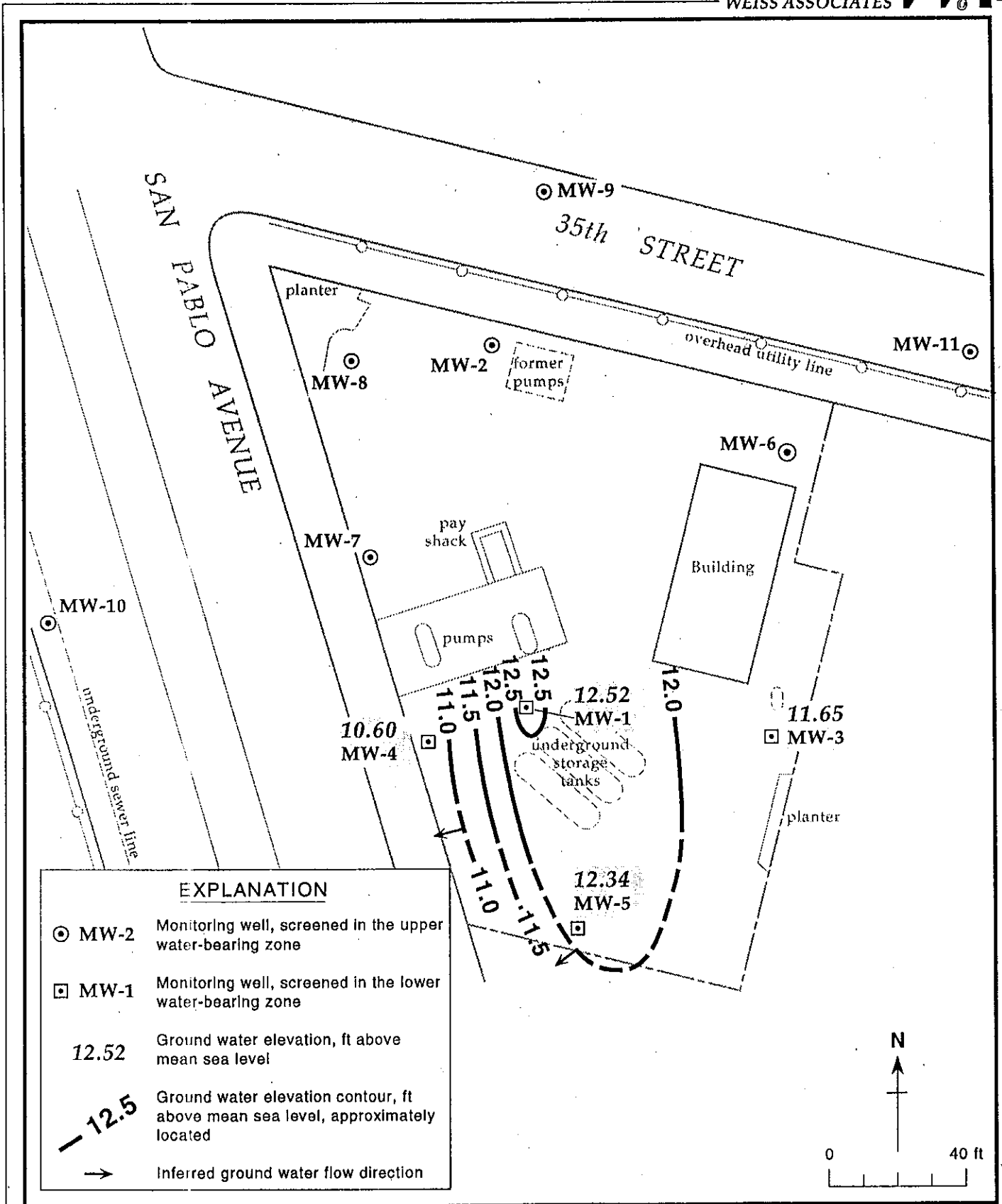


Figure 3. Monitoring Well Locations and Ground Water Elevation Contours, Lower Water-Bearing Zone - July 19, 1994 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

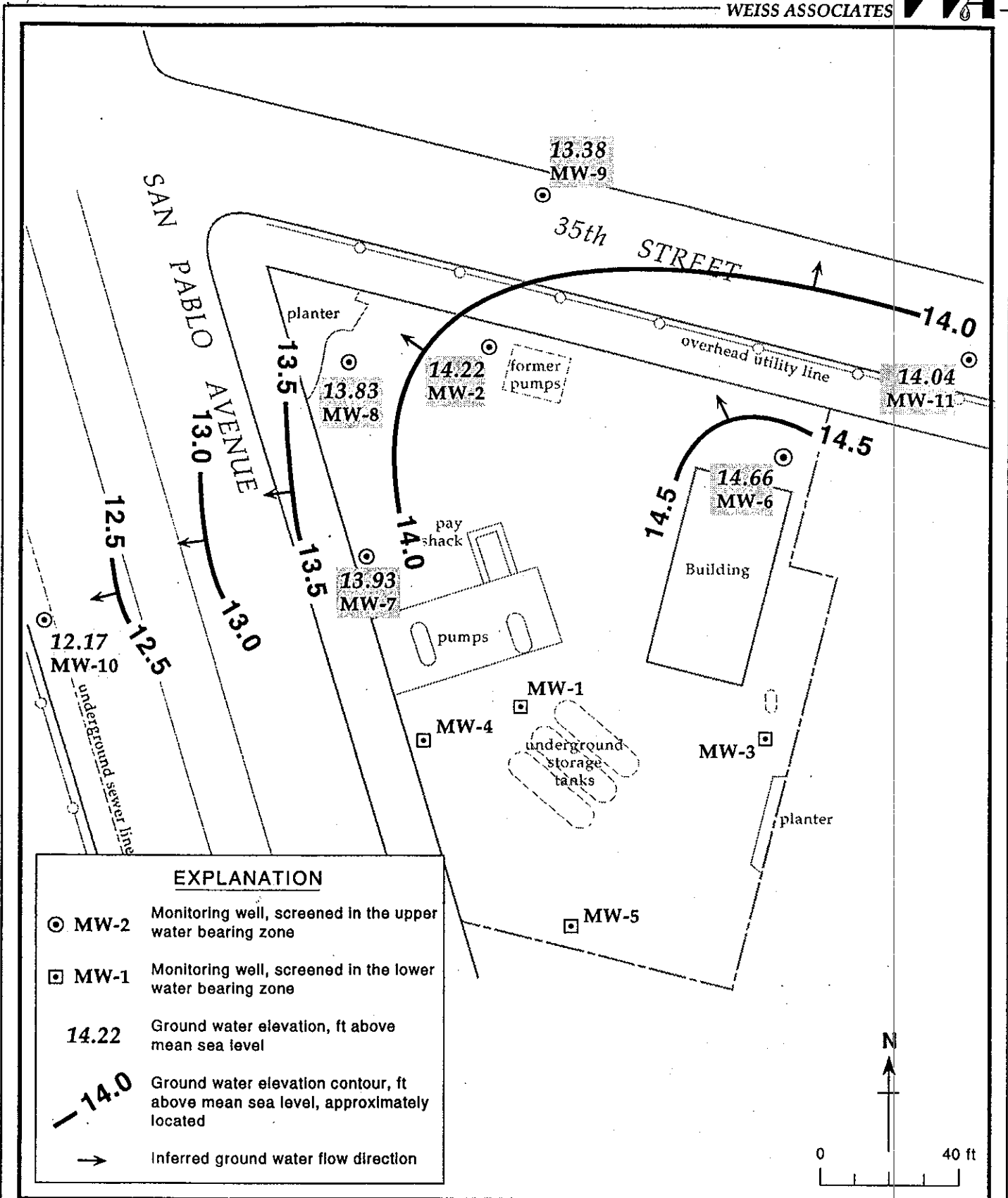


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours, Upper Water Bearing Zone - April 13, 1994 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

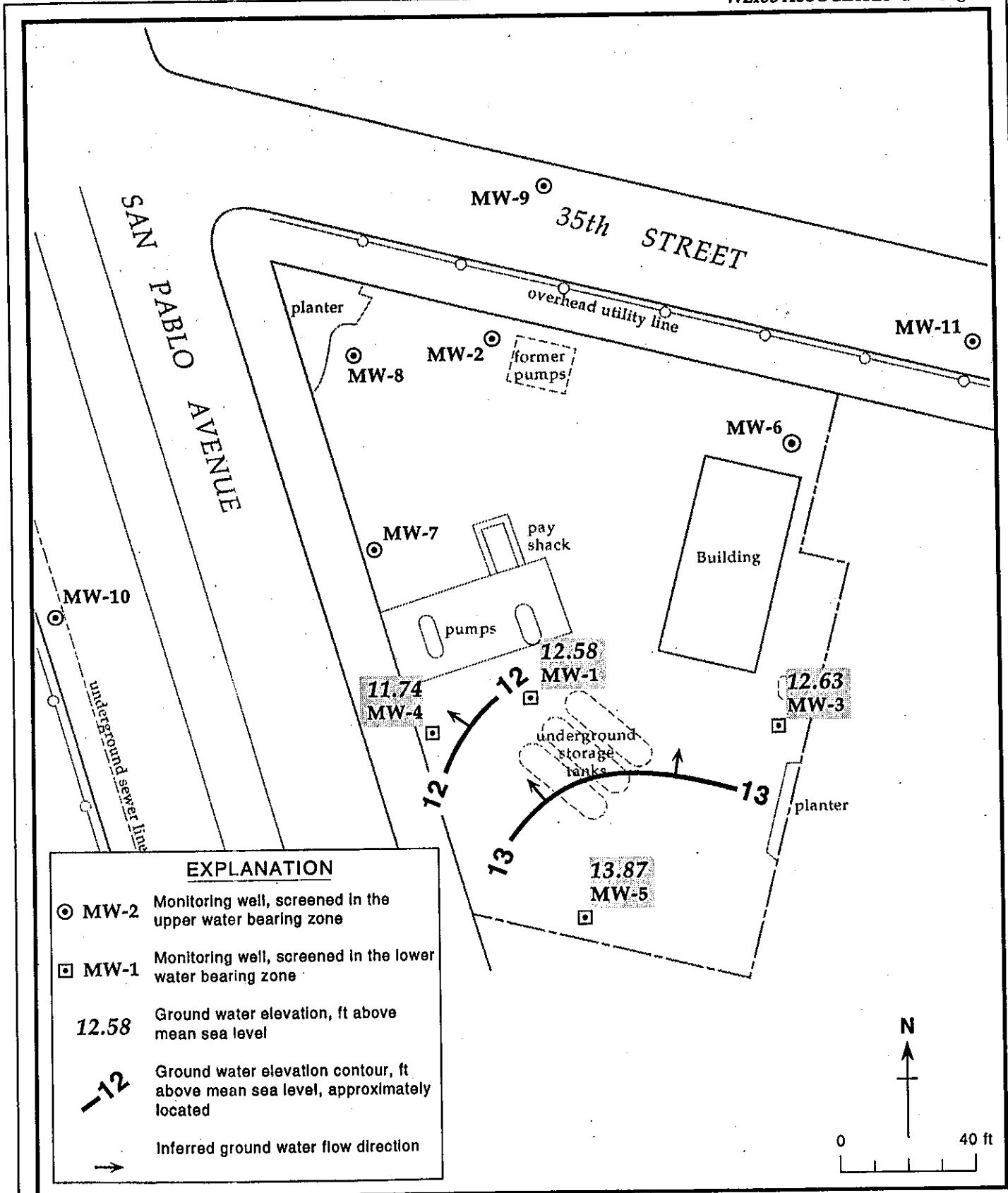


Figure 3. Monitoring Well Locations and Ground Water Elevation Contours, Lower Water Bearing Zone - April 13, 1994 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue,



HAZMAT
94 JUL 12 PM 1:45

June 22, 1994

SID 381

Dennis Byrne
Alameda County Department of
Environmental Health
80 Swan Way, Room 200
Oakland, California 94621-1426

Re: Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-612-104

94608

Dear Mr. Byrne:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1.) This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the second quarter 1994 and proposed work for the third quarter 1994.

<i>Hydrocarbon Removal Summary</i>	<i>Pounds Removed Second Quarter 1994</i>	<i>Cumulative Pounds Removed</i>
Separate-phase Hydrocarbon	0.9	14.82

Second Quarter 1994 Activities:

- Blaine Tech Services (BTS) of San Jose, California measured ground water depths and collected ground water samples from the wells. BTS' report describing these activities and the analytic report for the ground water samples are included as Attachment A.

2

- BTS removed a total of 0.17 gallons of separate-phase hydrocarbons (SPHs) from skimmers in wells MW-1 and MW-4 and bailed SPHs from wells MW-5, MW-6 and MW-7 this quarter (Table 1). To date, approximately 2.47 gallons of SPHs have been removed by skimmers and additional bailing.
- Weiss Associates (WA) prepared a ground water elevation contour map for wells screened in the first water bearing zone (Figure 2). Since wells MW-1, MW-3, MW-4 and MW-5 are screened slightly deeper than the other site wells, these wells are contoured separately (Figure 3).

Anticipated Third Quarter 1994 Activities:

- WA will submit a report presenting the results of the third quarter 1994 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, SPH removal data and ground water elevation contour maps.
- SPH skimmers are installed in wells MW-1, MW-2, and MW-4. The skimmers will be purged of hydrocarbons quarterly until no SPHs are measured in these wells. Hydrocarbon volumes purged will be tabulated in subsequent quarterly status reports.

Conclusions and Recommendations:

Ground water elevations have increased. This elevation increase still continues to result in the reversal of the apparent ground water flow direction beneath the northern portion of the site compared to second quarter 1993. We will monitor ground water elevations in upcoming quarters to assess whether this trend continues.



ALCO
HAZMAT
94 APR 14 PM 12:34

April 8, 1994

Dennis Byrne
Alameda County Department of
Environmental Health
80 Swan Way, Room 200
Oakland, California 94621-1426

ST ID 381

Re: Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-612-104

Dear Mr. Byrne:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1.) This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the first quarter 1994 and proposed work for the second quarter 1994.

First Quarter 1994 Activities:

- Weiss Associates (WA) evaluated the results of a soil vapor extraction (SVE) test conducted at the site. The SVE test results, which are enclosed with this report as Attachment A, concludes that SVE may be a viable remedial alternative at this site.
- Blaine Tech Services (BTS) of San Jose, California measured ground water depths in all eleven site wells and collected ground water samples from the wells. BTS' report describing these activities and presenting analytic results for ground water is included as Attachment B.



- BTS removed <0.02 gallons of floating hydrocarbons from skimmers in wells MW-1 and MW-4 this quarter (Table 1). To date, approximately 2.29 gallons of floating hydrocarbons have been removed by bailing and by floating hydrocarbon skimmers.
- WA prepared a ground water elevation contour map for wells screened in the first water bearing zone (Figure 2). Since wells MW-1, MW-3, MW-4 and MW-5 are screened slightly deeper than the other site wells, these wells are contoured separately (Figure 3).

Anticipated Second Quarter 1994 Activities:

- WA will submit a report presenting the results of the second quarter 1994 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, floating hydrocarbon removal data and ground water elevation contour maps.
- Floating hydrocarbon skimmers are installed in wells MW-1, MW-2, and MW-4. The skimmers will be purged of hydrocarbons quarterly until no floating hydrocarbons are measured in these wells. Hydrocarbon volumes purged will be tabulated in subsequent quarterly status reports.

Conclusions and Recommendations:

Ground water elevations have increased. This elevation increase still continues to result in the reversal of the apparent ground water flow direction beneath the northern portion of the site compared to second quarter 1993. We will monitor ground water elevations in upcoming quarters to assess whether this trend continues.

Floating hydrocarbon thickness decreased compared to last quarter. WA will monitor the floating hydrocarbon thickness and begin monthly floating hydrocarbon purging if the skimmers are not effectively removing floating hydrocarbons.

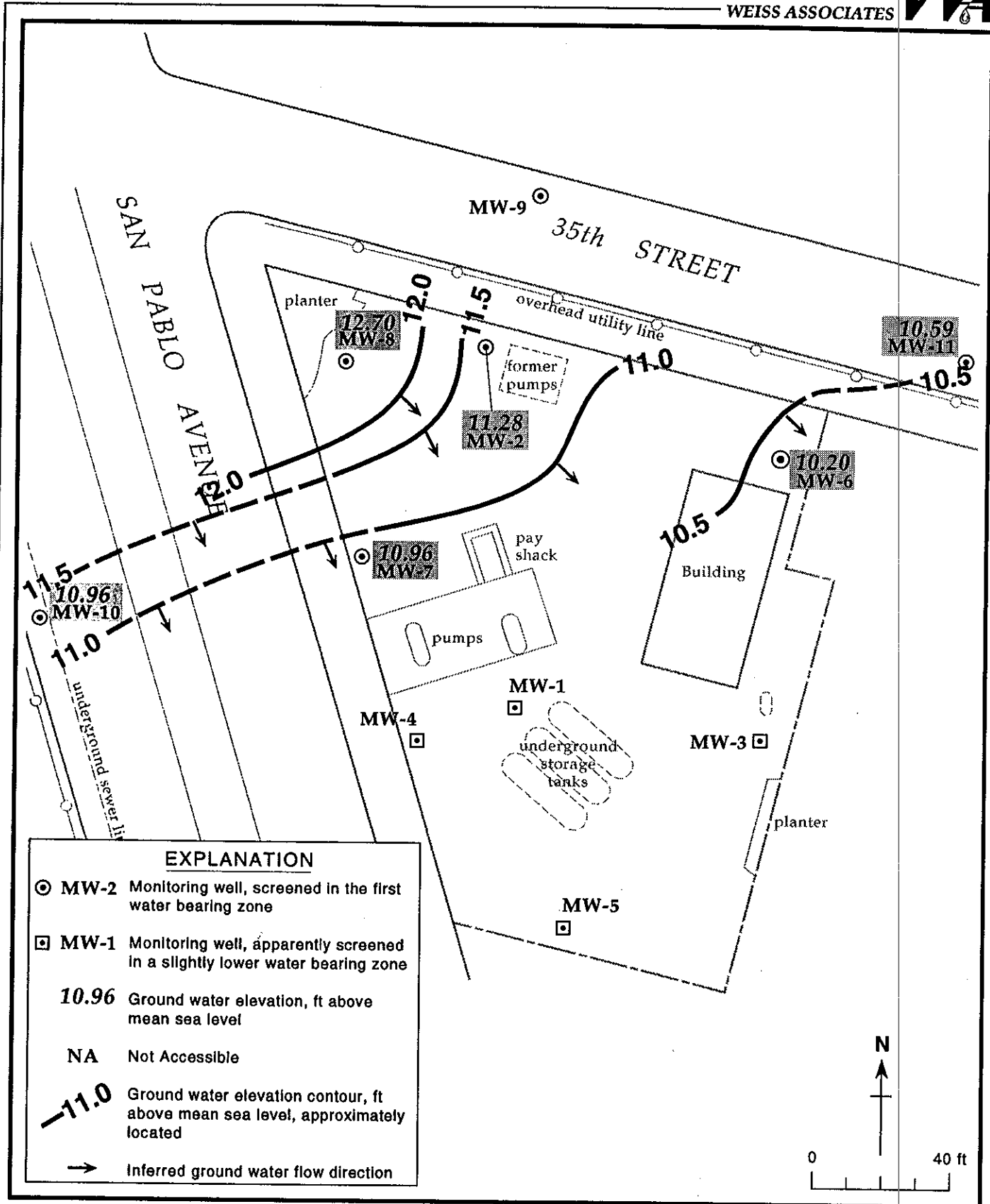


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours, Upper Water Bearing Zone - October 13, 1993 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

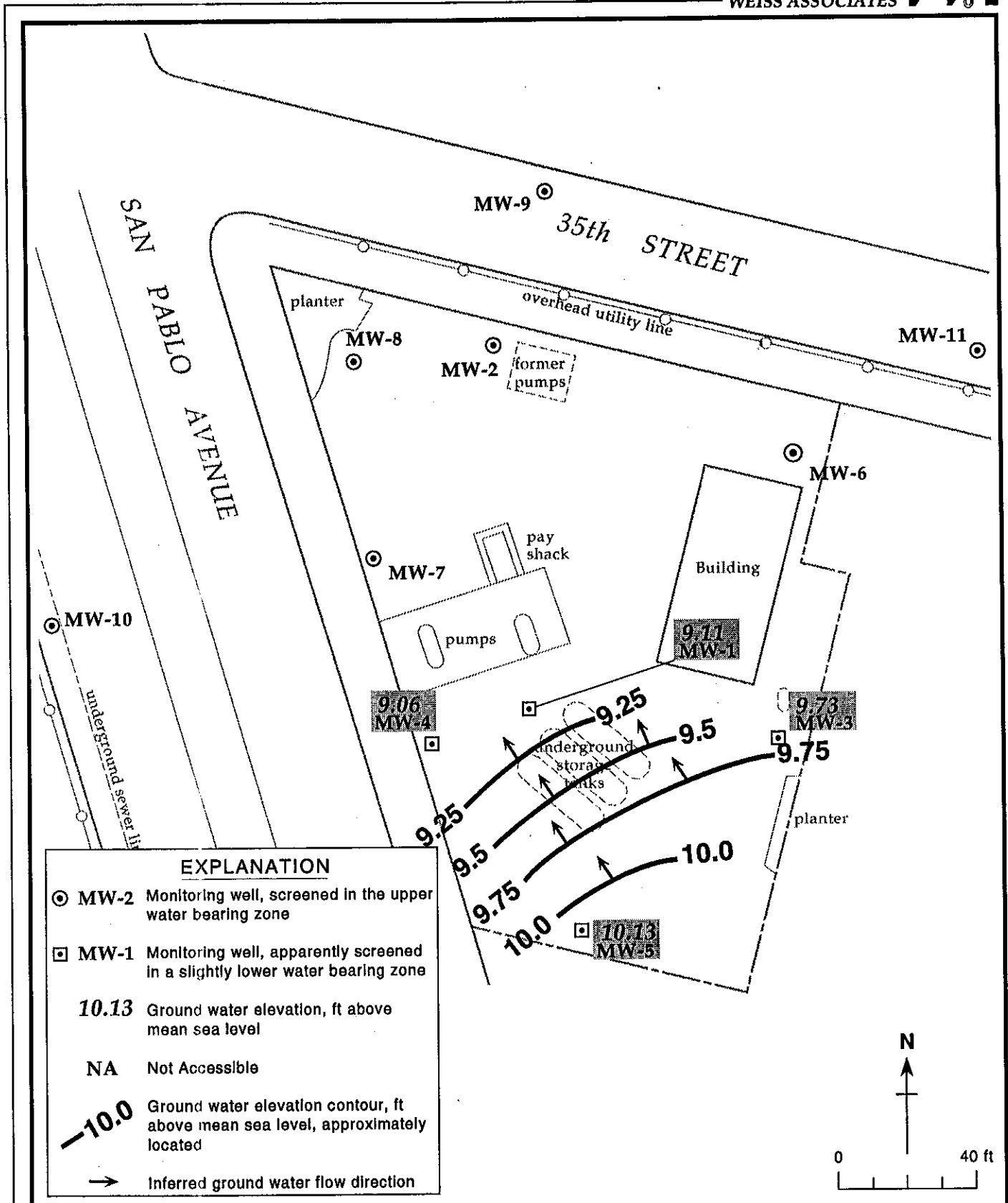


Figure 3. Monitoring Well Locations and Ground Water Elevation Contours, Lower Water Bearing Zone - October 13, 1993 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

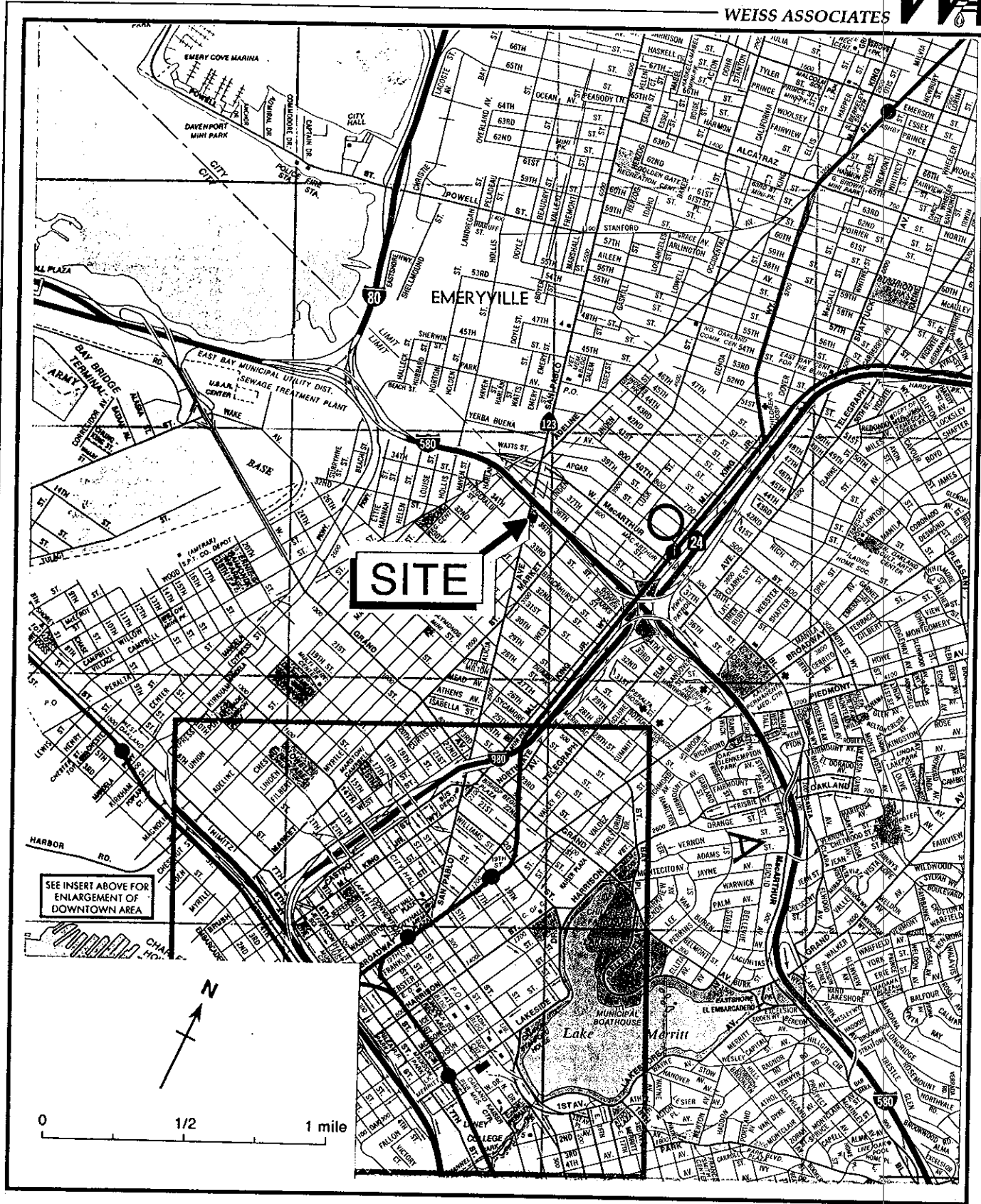


Figure 1. Site Location Map - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California



COPY

January 27, 1994

Dan Kirk
Shell Oil Company
P.O. Box 5278
Concord, California 94520-9998

Re: Soil Vapor Extraction Test Results
Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-612-88

Dear Mr. Kirk:

This letter presents the results of Weiss Associates' (WA) soil vapor extraction (SVE) test at the Shell service station referenced above (Figure 1) on November 16, 1993. The test protocol, results, and conclusions are described below.

Test Protocol

We used a VR System V3 engine to test wells MW-1, MW-2, MW-4 and MW-6 individually for 15 minutes each to assess which wells could produce the most vapor-phase hydrocarbons. Based on these short test, we selected wells MW-1 and MW-6 for longer-term testing. While performing the SVE test on MW-1, we monitored vacuum influence in wells MW-3 and MW-4. During the SVE test on MW-6, we monitored vacuum influence in well MW-2. Nearby well MW-11 was not monitored because it was in the street and could not be accessed safely.

Test Results

During extraction from each well, we adjusted the vacuum applied to maximize the flow rate from the well and to avoid pulling ground water into the SVE system. The applied vacuum ranged from 40 to 64 inches of water. The achieved vapor flow rates ranged from 8 to 19 scfm. The hydrocarbon concentrations in soil vapor ranged from 1,400 to 4,500 ppmv TPH-G based on laboratory analytic results, while TPH-G removal rates ranged from 7 to 32 pounds per day.

Mr. Dan Kirk
January 27, 1994

2

Weiss Associates 

The 9,000 ppmv methane detected in soil vapor extracted from well MW-6 may suggest anaerobic biologic activity in the subsurface.

The vacuum influence data during extraction from well MW-1 suggests that the *actual* radius of influence extends beyond 30 ft. However the relatively small measured influence suggests that the *effective* radius of influence may be less than 30 ft. The vacuum influence data during extraction from MW-6 is unreliable since the measured vacuum may be attributed to residual vacuum from testing of MW-2 earlier in the day.

Test Conclusions

Based on these test results, SVE may remove vapor-phase hydrocarbons from the subsurface at moderate rates. However, the benzene removal may be negligible since no benzene was detected in the extracted soil vapor. If you implement SVE at this site, the achievable vapor flow rates will be limited by the ground water upwelling in the extraction wells and the shallow depth of water.

We appreciate this opportunity to provide hydrogeologic consulting services to Shell. Please call Bob Clark-Riddell or Scott MacLeod if you have any questions.

Sincerely,
Weiss Associates



Joyce E. Adams
Senior Staff Geologist



Bob Clark-Riddell, P.E.
Project Engineer

JEA/BGR:jca

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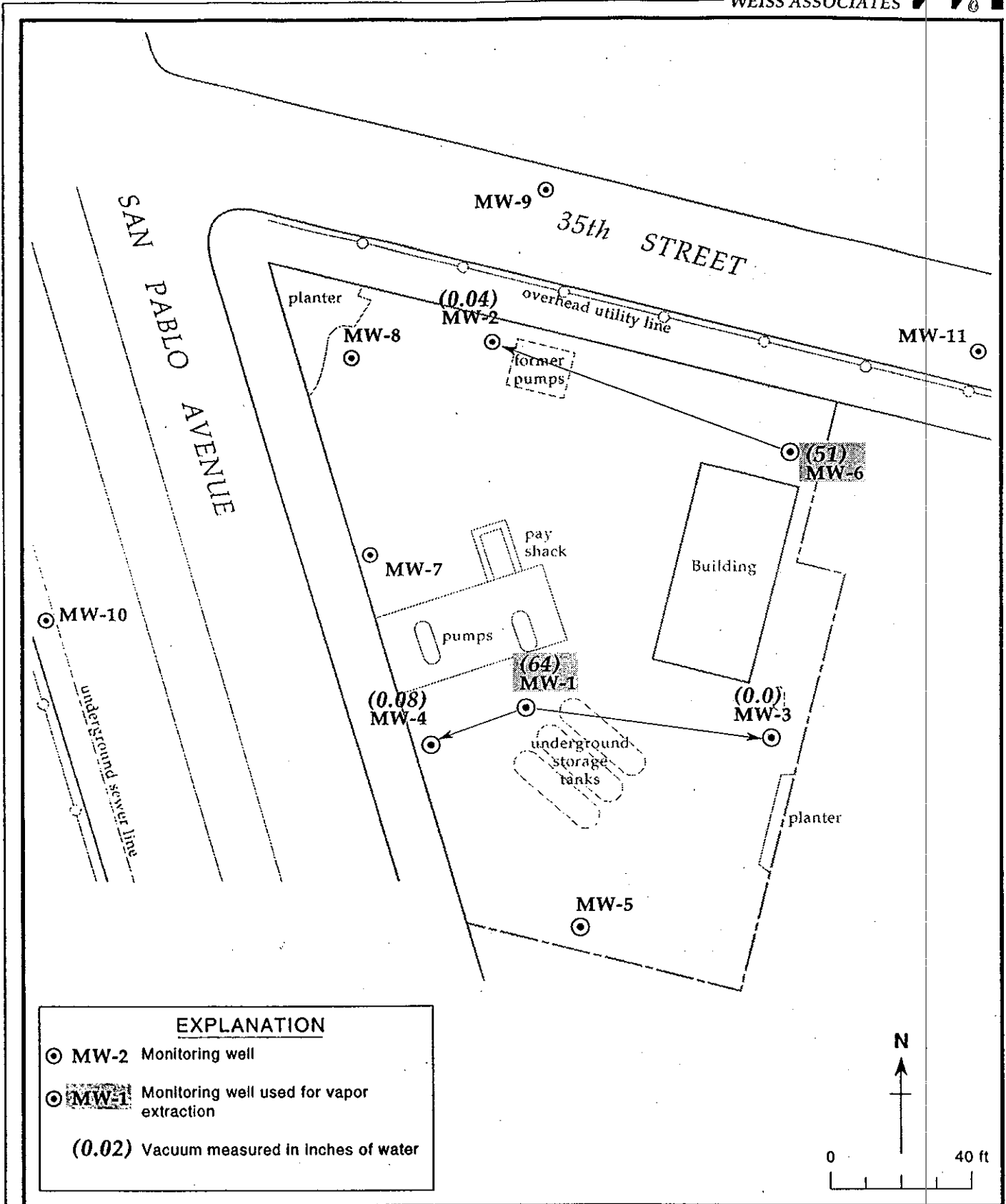


Figure 1. Well Location Map and Vacuum Measurements - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

Table 1. Soil Vapor Extraction Test Data - Shell Service Station WIC# 204-5508-5306, 3420 San Pablo, Oakland, California

WELL ID	EXPOSED SCREEN DEPTH (a) (ft)	VACUUM APPLIED (inches H ₂ O)	FLOW RATE (scfm)	ELAPSED TIME (min)	INLET CONCENTRATION			MASS REMOVAL (b)		VACUUM INFLUENCE		
					FID	TPH-G	BENZENE	TPH-G (lb/day)	BENZENE (lb/day)	WELL ID	DISTANCE (ft)	VACUUM ("H ₂ O)
MW-1	5 - 10.6	60	9	5	> 10,000	---	---	> 29	0.0	MW-3	68	0.00
										MW-4	30	0.02
MW-1	5 - 10.6	64	8	180	> 10,000	2,900	< 4	7	< 0.01	MW-3	68	0.00
										MW-4	30	0.08
MW-2	4. - 10.4	40	10	3	> 10,000	---	---	> 32	0.0	---	---	---
MW-2	4. - 10.4	40	9	10	> 10,000	---	---	> 29	0.0	---	---	---
MW-4	5 - 11.4	55	4	14	> 10,000	---	---	> 13	0.0	---	---	---
MW-6	5 - 12.3	51	15	9	> 7,600	4,500	< 2	22	< 0.01	MW-2	83	0.05 (c)
MW-6	5 - 12.3	51	19	81	> 1,000	1,400	< 2	9	< 0.05	MW-2	83	0.04 (c)

Notes:

(a) = Depth interval below ground surface between top of well screen and ground water.

(b) = Mass removal rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction, July 17, 1991.

Rate = concentration(ppmv) x flow rate(scfm) x (1 lb-mole/386 cu ft) x molecular weight (86 lb/lb-mole for TPH-G as hexane, 78 for benzene) x 1,440 minutes/day x 0.000001.

(c) = Data may be unreliable since well was used for extraction testing earlier during test.

FID = Portable flame ionization detector measurements. MW-6 measurements are less the methane reading of 2,400 ppmv and 9,000 ppmv, respectively.

TPH-G = Total petroleum hydrocarbons by EPA Method 5030.

BENZENE = Benzene by EPA Method 8020.

scfm = Standard cubic feet per minute.

ppmv = Parts per million by volume.

--- = Data not reliable or representative.

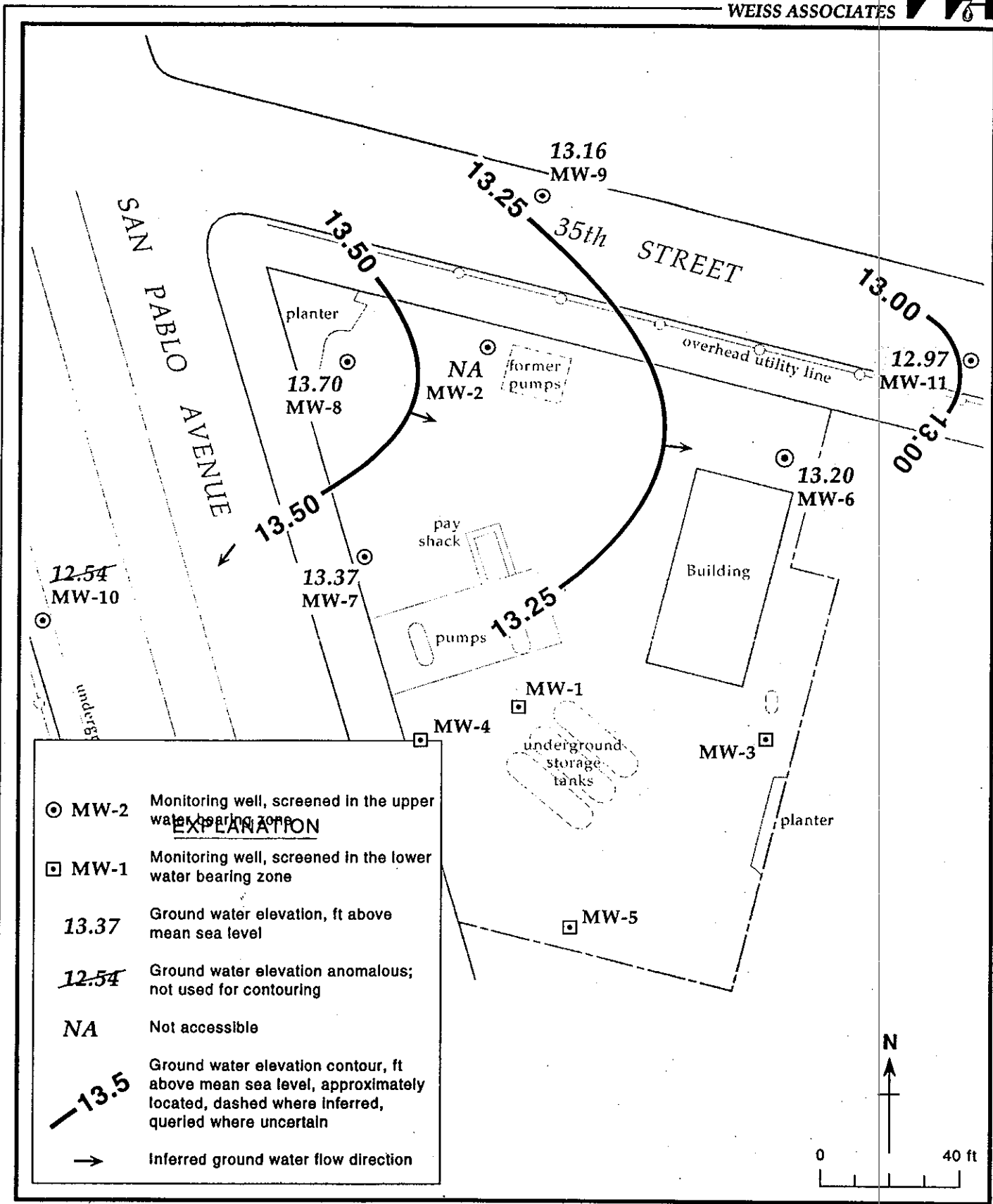


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours, Upper Water Bearing Zone - January 20, 1994 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

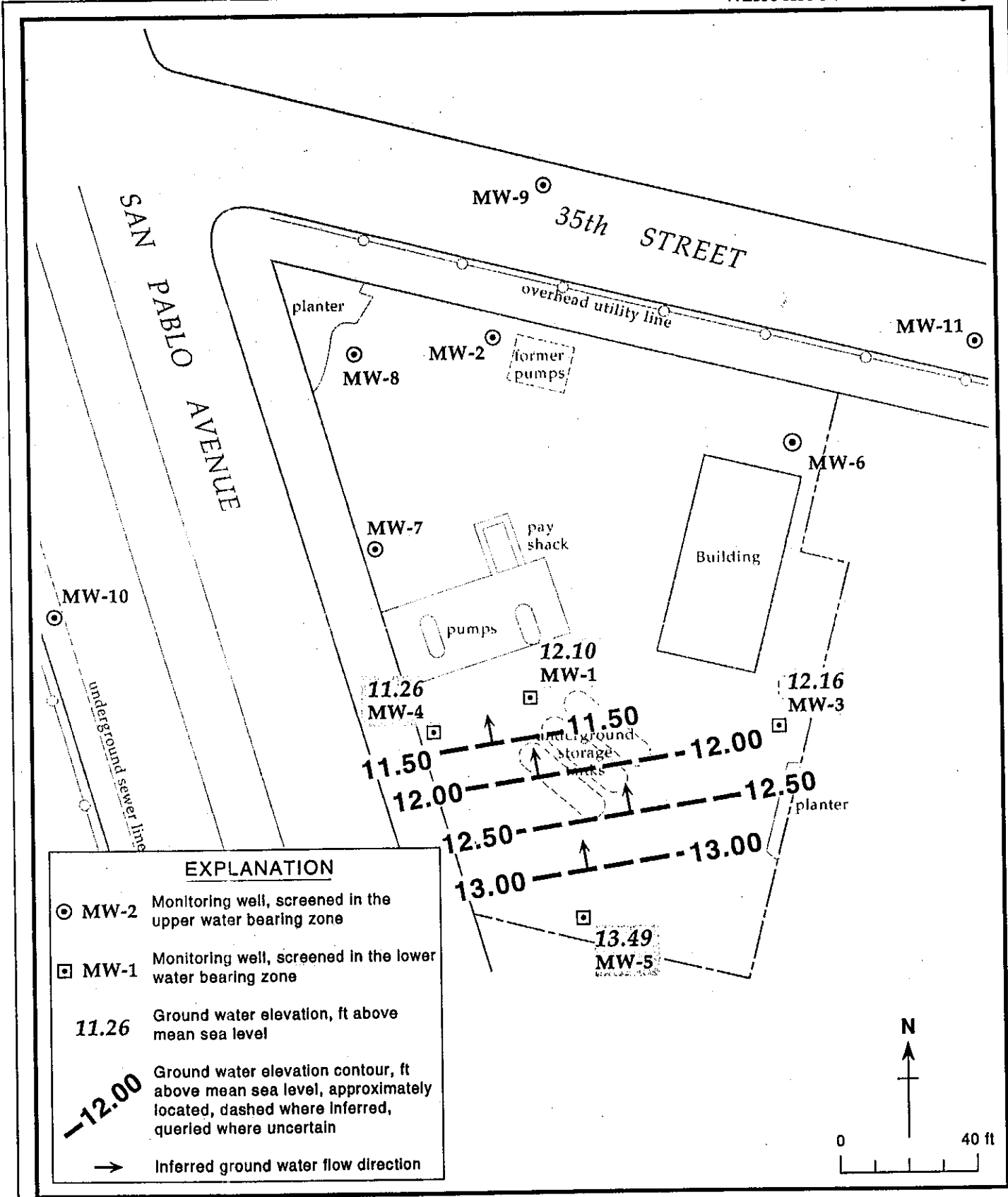


Figure 3. Monitoring Well Locations and Ground Water Elevation Contours, Lower Water Bearing Zone - January 20, 1994 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue,



ALCO
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94 JAN 18 PM 2: 47

January 13, 1994

Dennis Byrne
Alameda County Department of
Environmental Health
80 Swan Way, Room 200
Oakland, California 94621-1426

STIP 281

Re: Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-612-203

Dear Mr. Byrne:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1.) This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the fourth quarter 1993 and proposed work for the first quarter 1994.

Fourth Quarter 1993 Activities:

- Blaine Tech Services (BTS) of San Jose, California measured ground water depths in all eleven site wells and collected ground water samples from seven of the wells. Wells MW-1, MW-4, MW-5 and MW-6 contained floating hydrocarbons and were not sampled. BTS' report describing these activities and presenting analytic results for ground water is included as Attachment A.
- BTS purged a total of 0.14 gallons of floating hydrocarbons from skimmers in wells MW-1 and MW-4 this quarter (Table 1). To date, approximately 2.27 gallons of floating hydrocarbons have been removed by bailing and by floating hydrocarbon skimmers.
- WA prepared a ground water elevation contour map for wells screened in the first water bearing zone (Figure 2). Since wells MW-1, MW-3, MW-4 and MW-5 are screened slightly deeper than the other site wells, these wells are contoured separately (Figure 3).
- WA conducted a soil vapor extraction test on November 16, 1993 to assess whether SVE is a viable remedial option for this site. Results of this test will be submitted shortly under separate cover.

3

Anticipated First Quarter 1994 Activities:

- WA will submit a report presenting the results of the first quarter 1994 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, floating hydrocarbon removal data and ground water elevation contour maps.
- Floating hydrocarbon skimmers are installed in wells MW-1, MW-2, MW-4 and MW-6. The skimmers will be purged of hydrocarbons quarterly until no floating hydrocarbons are measured in these wells. Hydrocarbon volumes purged will be tabulated in subsequent quarterly status reports.

Conclusions and Recommendations:

Ground water elevations have decreased. This elevation decrease resulted in the reversal of the apparent ground water flow direction beneath the northern portion of the site compared to second quarter 1993. We will monitor ground water elevations in upcoming quarters to assess whether this trend continues.

Floating hydrocarbon thickness decreased compared to last quarter. WA will monitor the floating hydrocarbon thickness and begin monthly floating hydrocarbon purging if the skimmers are not effectively removing floating hydrocarbons.

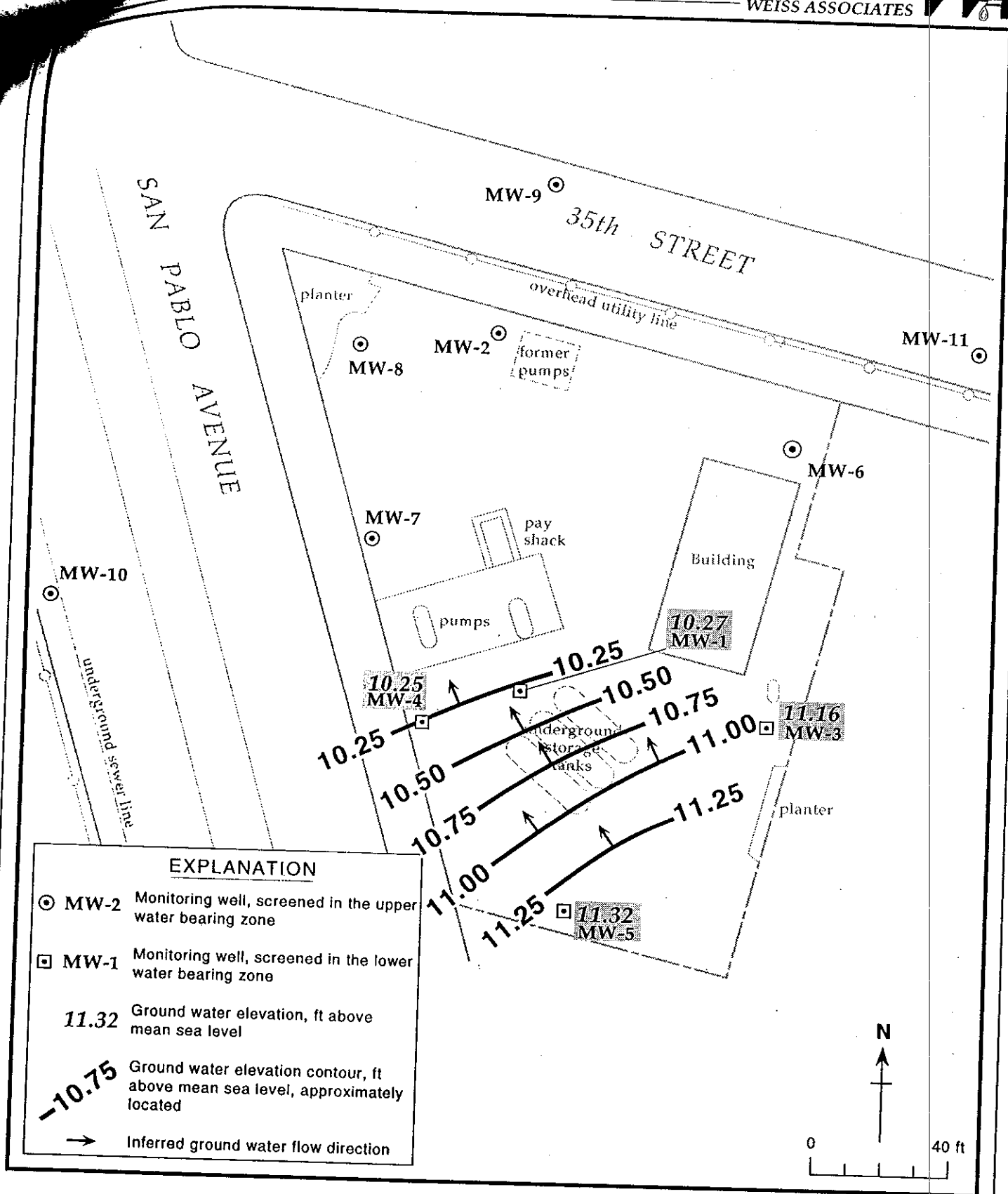


Figure 3. Monitoring Well Locations and Ground Water Elevation Contours, Lower Water Bearing Zone - July 12, 1993 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

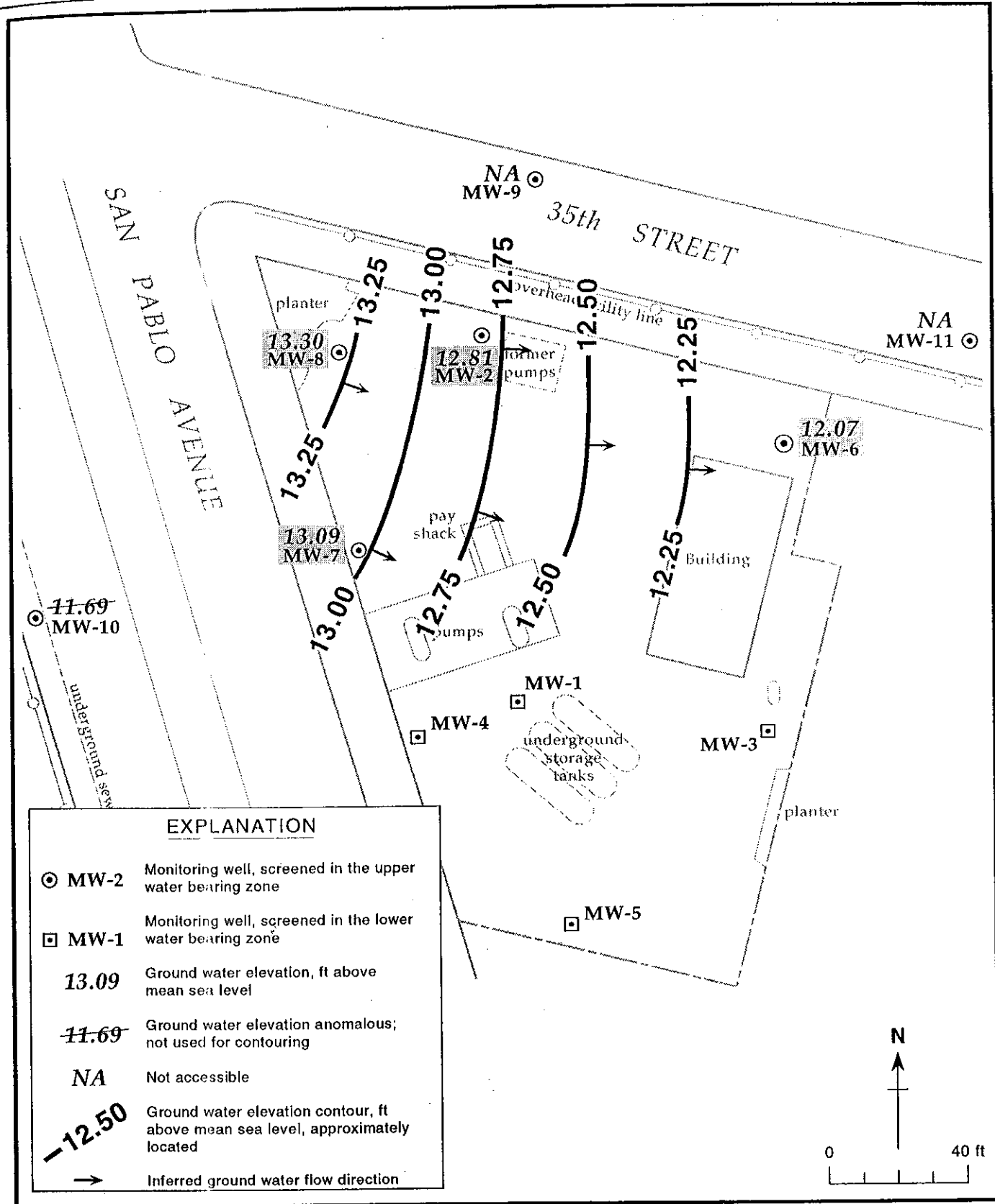


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours, Upper Water Bearing Zone - July 12, 1993 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California



Weiss Associates

5500 Shellmound Street, Emeryville, CA 94608-2411

Environmental and Geologic Services

Fax: 510-547-5043 Phone: 510-450-6000

93 OCT 15 PM 12:22

October 11, 1993

Dennis Byrne
Alameda County Department of
Environmental Health
80 Swan Way, Room 200
Oakland, California 94621-1426

STD 389

Re: Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-612-203

Dear Mr. Byrne:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1.) This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the third quarter 1993 and proposed work for the fourth quarter 1993.

Third Quarter 1993 Activities:

- Blaine Tech Services (BTS) of San Jose, California measured ground water depths in nine of the eleven site wells and collected ground water samples from seven of the wells. Wells MW-9 and MW-11 were recently paved over and could not be sampled. Two of the wells contained floating hydrocarbons and were not sampled. BTS' report describing these activities and presenting analytic results for ground water is included as Attachment A.
- BTS purged a total of 1.09 gallons of floating hydrocarbons from wells MW-1 and MW-4 this quarter (Table 1). To date, about 2.13 gallons of floating hydrocarbons have been removed by purging the wells and by floating hydrocarbon skimmers.
- WA prepared a ground water elevation contour map for wells screened in the first water bearing zone (Figure 2). Since wells MW-1, MW-3, MW-4 and MW-5 are screened slightly deeper than the other site wells, these wells are contoured separately (Figure 3).

- WA relocated wells MW-9 and MW-11 and reset the well vaults to grade on July 21, 1993.

Anticipated Fourth Quarter 1993 Activities:

- WA will submit a report presenting the results of the fourth quarter 1993 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, floating hydrocarbons removal data and ground water elevation contour maps.
- Floating hydrocarbon skimmers are installed in wells MW-1, MW-2, MW-4 and MW-6. The skimmers will be purged of hydrocarbons quarterly until no floating hydrocarbons are measured in these wells. Hydrocarbon volumes purged will be tabulated in subsequent quarterly status reports.

Conclusions and Recommendations:

Ground water elevations have decreased by about two feet compared to second quarter. This elevation decrease probably resulted in the reversal of apparent ground water flow in the wells on the northern portion of the site compared to last quarter. We will monitor ground water elevations in upcoming quarters to assess whether this trend continues. WA will also monitor the floating hydrocarbon thickness and begin monthly floating hydrocarbon purging if the skimmers do not appear to be sufficient to remove floating hydrocarbons.

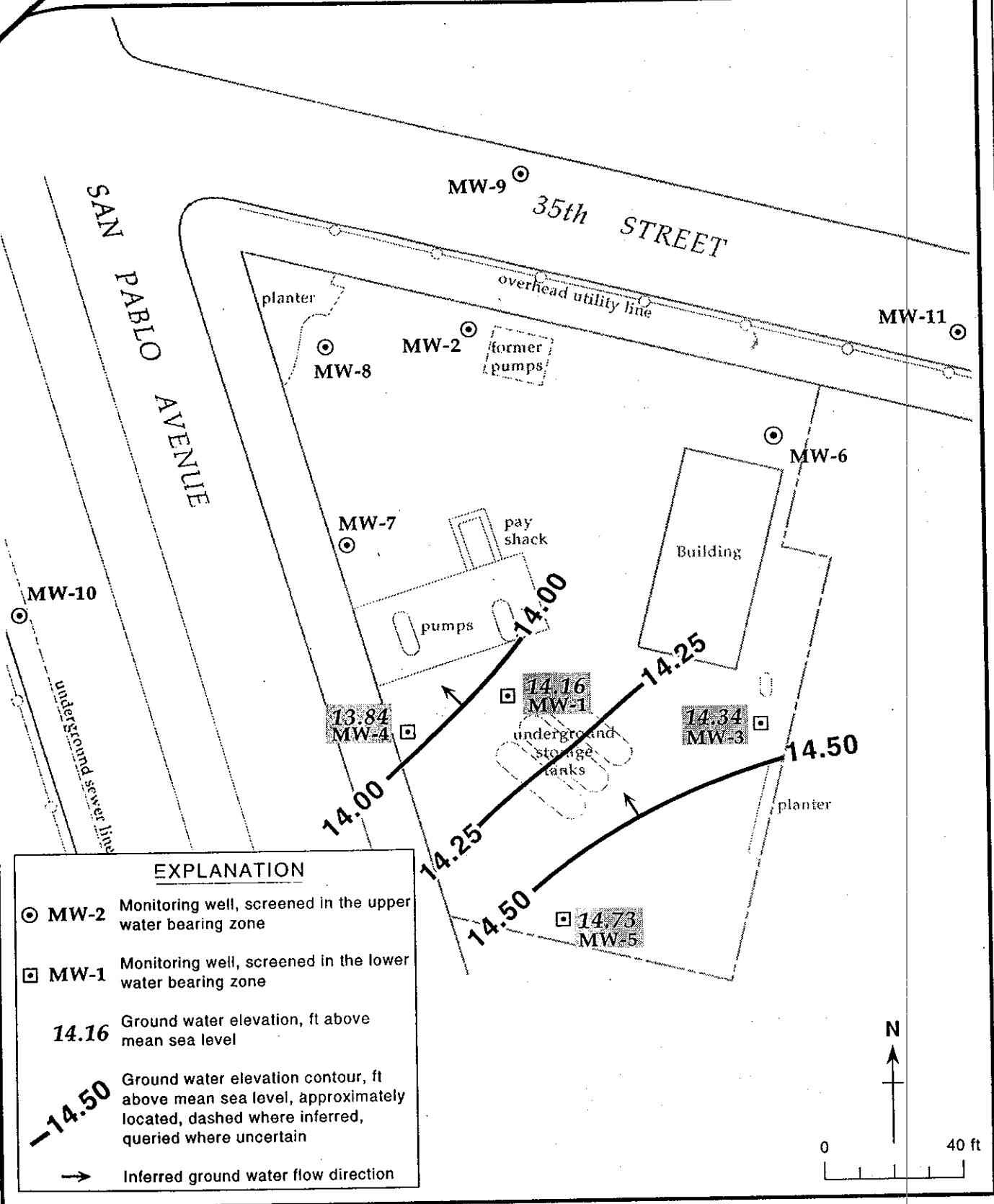


Figure 3. Monitoring Well Locations and Ground Water Elevation Contours, Lower Water Bearing Zone - April 6, 1993 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

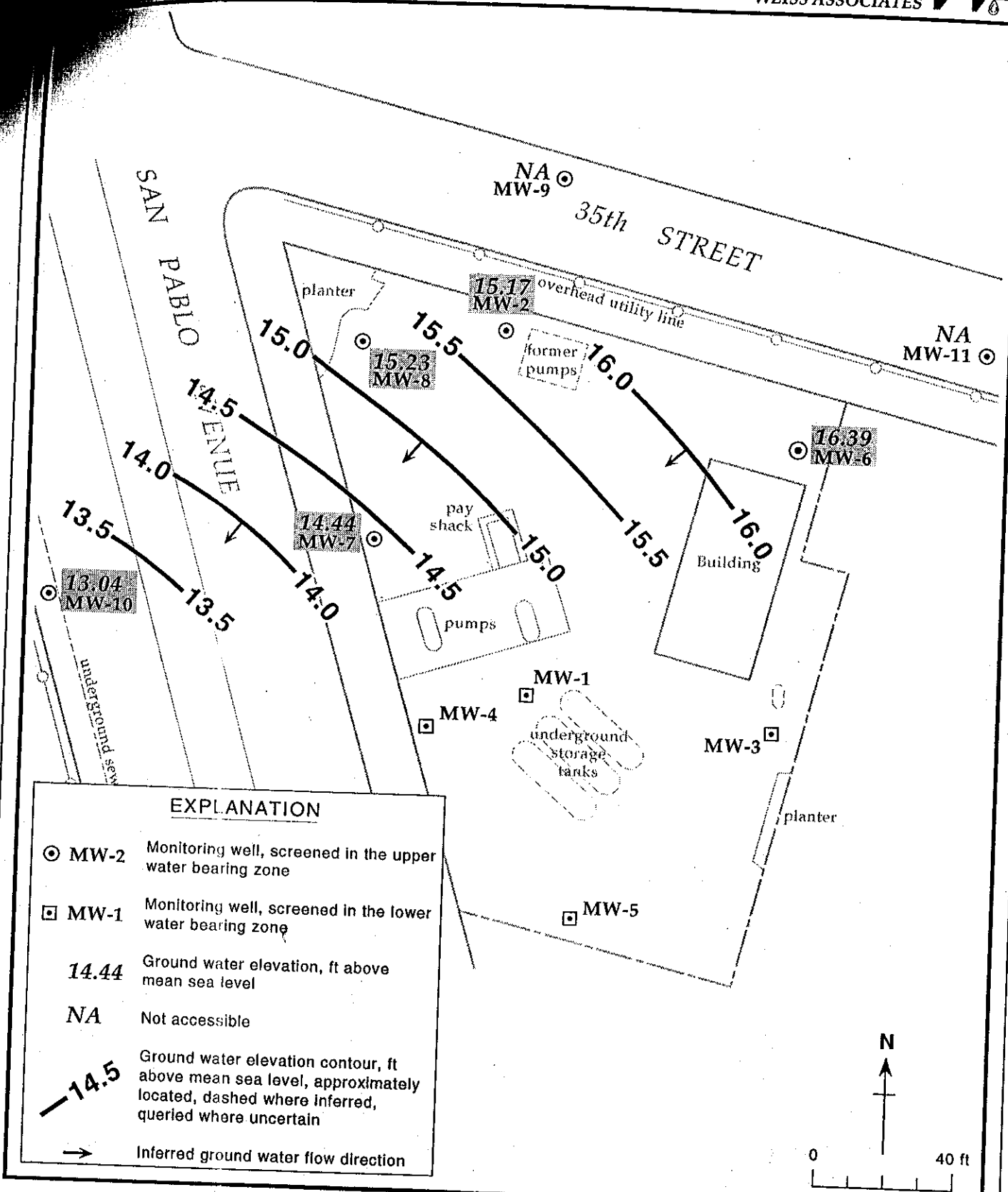


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours, Upper Water Bearing Zone - April 6, 1993 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

June 9, 1993

Dennis Byrne
Alameda County Department of
Environmental Health
80 Swan Way, Room 200
Oakland, California 94621-1426

STIP 381
Re: Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-612-203

Dear Mr. Byrne:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1.) This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the second quarter 1993 and proposed work for the third quarter 1993.

Second Quarter 1993 Activities:

- Blaine Tech Services (BTS) of San Jose, California measured ground water depths in nine of the eleven site wells and collected ground water samples from six of the wells. Wells MW-9 and MW-11 were recently paved over and could not be sampled. Three of the wells contained floating hydrocarbons and were not sampled. BTS' report describing these activities and presenting analytic results for ground water is included as Attachment A.
- BTS purged a total of 0.26 gallons of floating hydrocarbons from wells MW-1 and MW-2 (Table 1). To date, about 1.04 gallons of floating hydrocarbons have been removed by purging the wells or by using passive floating hydrocarbon skimmers.
- WA prepared a ground water elevation contour map for wells screened in the first water bearing zone (Figure 2). Since wells MW-1, MW-3, MW-4 and MW-5 are screened slightly deeper than the other site wells, these wells are contoured separately (Figure 3).

Anticipated Third Quarter 1993 Activities:

- WA will submit a report presenting the results of the third quarter 1993 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, floating hydrocarbons removal data and ground water elevation contour maps.
- Floating hydrocarbon skimmers are installed in wells MW-1, MW-2, MW-4 and MW-6. The skimmers will be purged of hydrocarbons quarterly until no floating hydrocarbons are measured in these wells. Hydrocarbon volumes purged will be tabulated in subsequent quarterly status reports.

Conclusions and Recommendations:

Despite a ground water rise of about five to six feet compared to the fourth quarter of 1992, hydrocarbon concentrations in ground water and floating hydrocarbon thicknesses measured in the wells have not increased compared to historical values. WA will monitor the floating hydrocarbon thickness and begin monthly floating hydrocarbon purging if the skimmers do not appear to be sufficient to remove floating hydrocarbons.

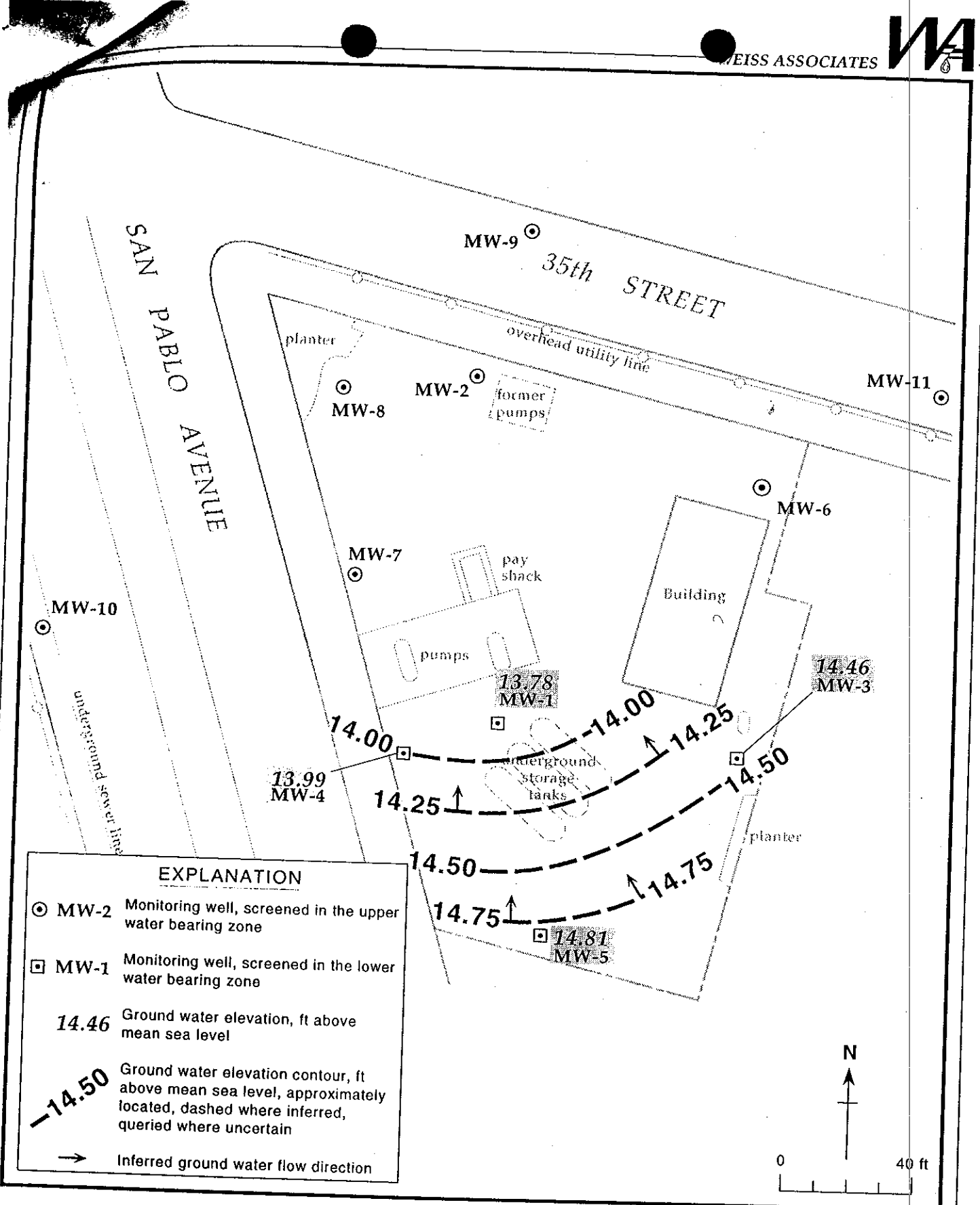


Figure 3. Monitoring Well Locations and Ground Water Elevation Contours, Lower Water Bearing Zone - January 12, 1993 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

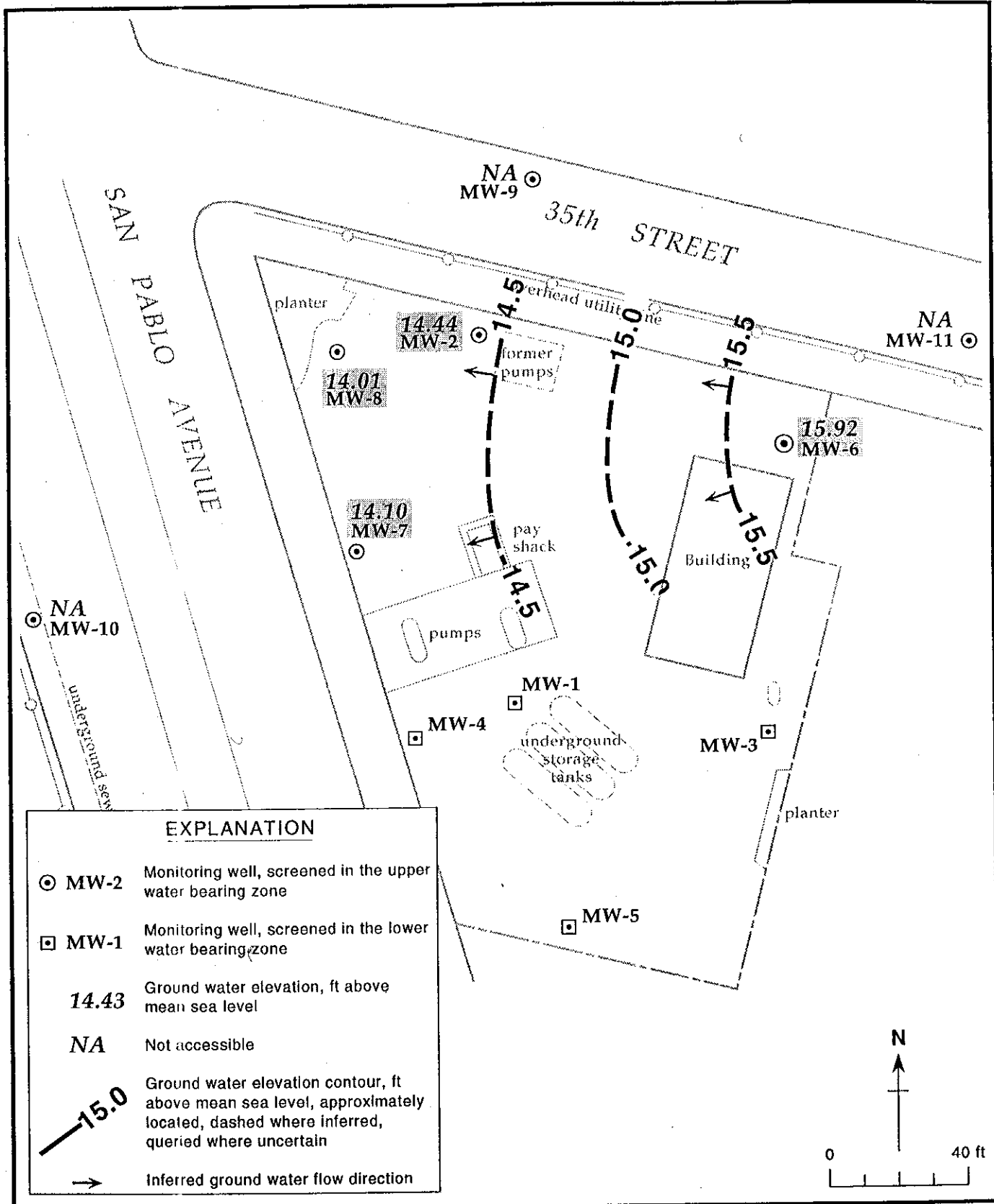


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours, Upper Water Bearing Zone - January 12, 1993 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California



93 APR 15 AM 11:00

April 12, 1993

Dennis Byrne
Alameda County Department of
Environmental Health
80 Swan Way, Room 200
Oakland, California 94621-1426

Re: Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-612-203

STP 381

Dear Mr. Byrne:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1.) This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the first quarter 1993 and proposed work for the second quarter 1993.

First Quarter 1993 Activities:

- Blaine Tech Services (BTS) of San Jose, California measured ground water depths in eight of the eleven site wells and collected ground water samples from three of the wells. Five of the wells contained floating hydrocarbons and were not sampled. Wells MW-9 and MW-11 were recently paved over and well MW-10 was blocked by a car. (BTS) report describing these activities and presenting analytic results for ground water is included as Attachment A. Ground water elevation data is presented in Table 1 and analytic results from ground water are presented in Table 2.
- BTS purged about 0.52 gallons of floating hydrocarbons from well MW-1 and about 0.25 gallons from with MW-2 (Table 3).
- WA prepared a ground water elevation contour map for wells screened in the first water bearing zone (Figure 2). Since wells MW-1, MW-3, MW-4 and MW-5 screen a deeper water-bearing zone than the other site wells, these wells are contoured separately (Figure 3).

Dennis Byrne
April 12, 1993

2

Weiss Associates



- Floating hydrocarbon skimmers were installed in wells MW-1, MW-2, MW-4 and MW-6. The skimmers will be purged of hydrocarbons monthly until no floating hydrocarbons are measured in these wells. Hydrocarbon volumes purged will be tabulated in subsequent quarterly status reports.

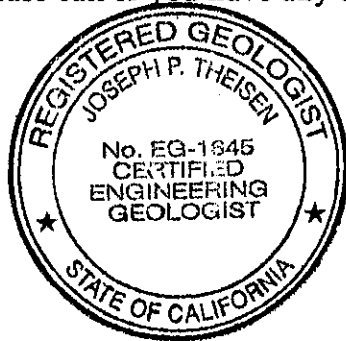
Anticipated Second Quarter 1993 Activities:

WA will submit a report presenting the results of the second quarter 1993 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results, floating hydrocarbons removal data and a ground water elevation contour map.

Conclusions and Recommendations:

Ground water has risen about five to six feet compared to last quarter, which may explain the floating hydrocarbons that are recently detected in the wells. WA will monitor the floating hydrocarbon thickness and begin monthly floating hydrocarbon purging if the skimmers do not appear to be sufficient to remove floating hydrocarbons.

Please call if you have any questions.



Sincerely,
Weiss Associates

J. Michael Asport
Technical Assistant

Joseph P. Theisen, C.E.G.
Senior Hydrogeologist

JMA/JPT:jma

J:\SHELL\600\QMRPTS\612QMFE3.WP

Attachments: Figures
Tables
A - Emcon Associates Ground Water Monitoring Report

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998
Lisa McCann, California Regional Water Quality Control Board, San Francisco Bay
Region, 2101 Webster Street, Suite 500, Oakland, California 94612

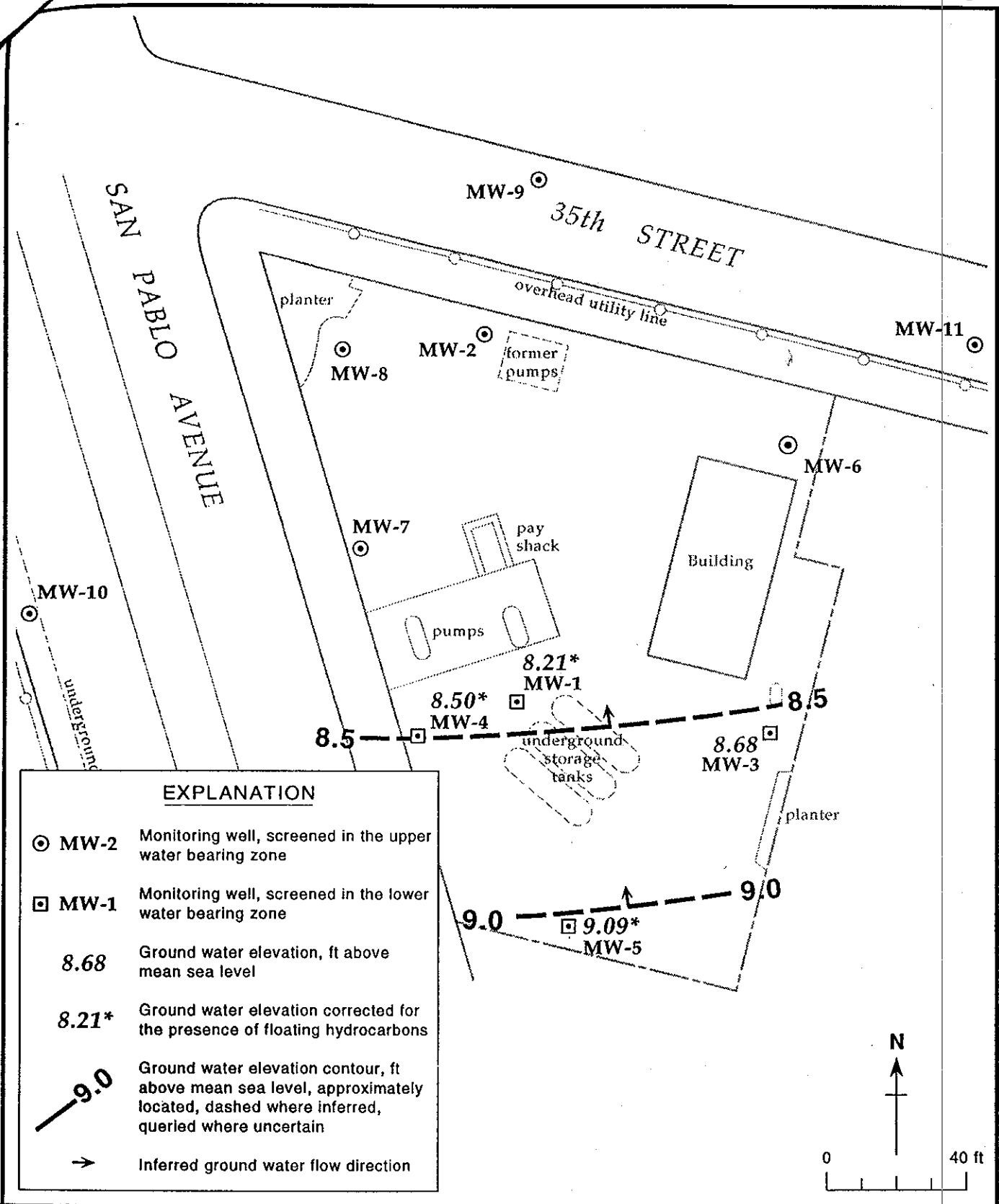


Figure 3. Monitoring Well Locations and Ground Water Elevation Contours, Lower Water Bearing Zone - October 12, 1992 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

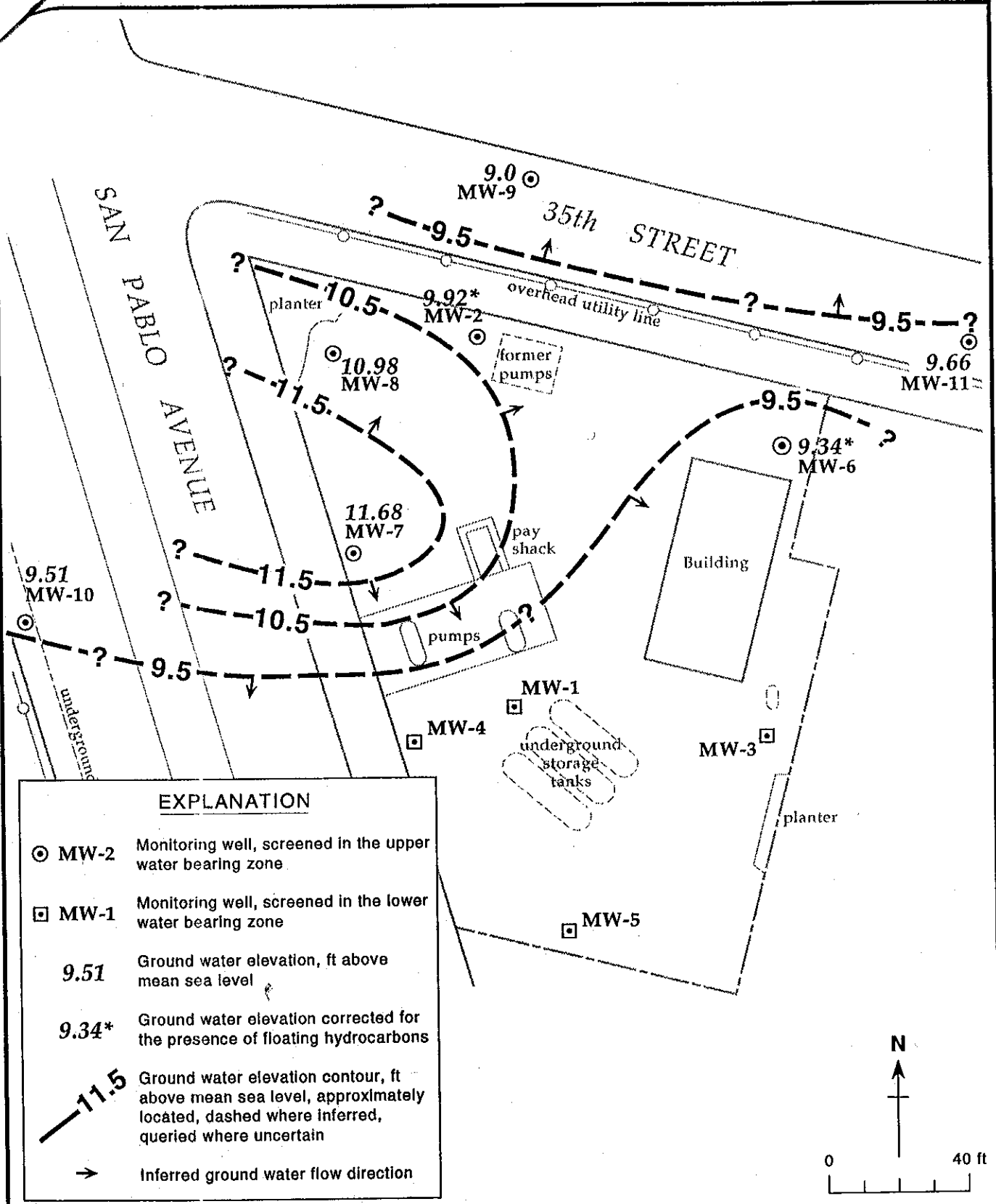
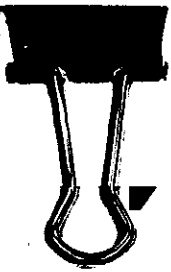


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours, Upper Water Bearing Zone - October 12, 1992 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California



93 FEB 16 PM 1:35

February 10, 1993

Dennis Byrne
Alameda County Department of
Environmental Health
80 Swan Way, Room 200
Oakland, California 94621-1426

Re: Shell Service Station
WIC #204-5508-5306
3420 San Pablo Avenue
Oakland, California
WA Job #81-612-203

Dear Mr. Byrne:

This letter describes recently completed and anticipated activities at the Shell service station referenced above (Figure 1.) This status report satisfies the quarterly reporting requirements prescribed by California Administrative Code Title 23 Waters, Chapter 3, Subchapter 16, Article 5, Section 265.d. Included below are descriptions and results of activities performed in the fourth quarter 1992 and proposed work for the first quarter 1993.

Fourth Quarter 1992 Activities:

- EMCON Associates (EMCON) of San Jose, California measured ground water depths from all site wells and collected ground water samples from six of the eleven site wells. Five of the wells contained floating hydrocarbons and were not sampled. Emcon's report describing these activities and presenting analytic results for ground water is included as Attachment A.
- WA conducted a well survey to locate any wells within a 1/4 mile radius that may have been installed since 1990. One additional well was located at 3400 San Pablo Blvd., which is across the street to the west of the site. This well appears to be a monitoring well.

February 10, 1993

2

Weiss Associates



- WA reviewed previous investigation reports and well logs to better understand the variable ground water elevations across the site. Since WA determined that wells MW-1, MW-3, MW-4 and MW-5 screen a deeper water-bearing zone than the other site wells, we contoured ground water elevations for these wells separately (Figures 2 and 3). The recontoured data that excludes wells MW-1, MW-3, MW-4 and MW-5 suggests a ridge of higher ground water elevation extends roughly east-west through the northern portion of the site. It is possible that a leaky water pipe or other water source could explain the mounding observed in the shallow water bearing zone. WA will continue reviewing previous and future water level data to assess the nature of the ground water flow.

Anticipated First Quarter 1993 Activities:

- WA will install floating hydrocarbon skimmers in wells MW-1, MW-2, MW-4 and MW-6 to remove the floating hydrocarbons in these wells. The skimmers will be purged of hydrocarbons quarterly until no floating hydrocarbons are measured in these wells. Hydrocarbon volumes purged will be tabulated in subsequent quarterly status reports.
- WA will submit a report presenting the results of the first quarter 1993 ground water sampling and ground water depth measurements. The report will include tabulated chemical analytic results and a ground water elevation contour map.

Please call if you have any questions.

Sincerely,
Weiss Associates

J. Michael Asport
Technical Assistant

Joseph P. Theisen, C.E.G.
Senior Hydrogeologist



JMA/JPT:jma

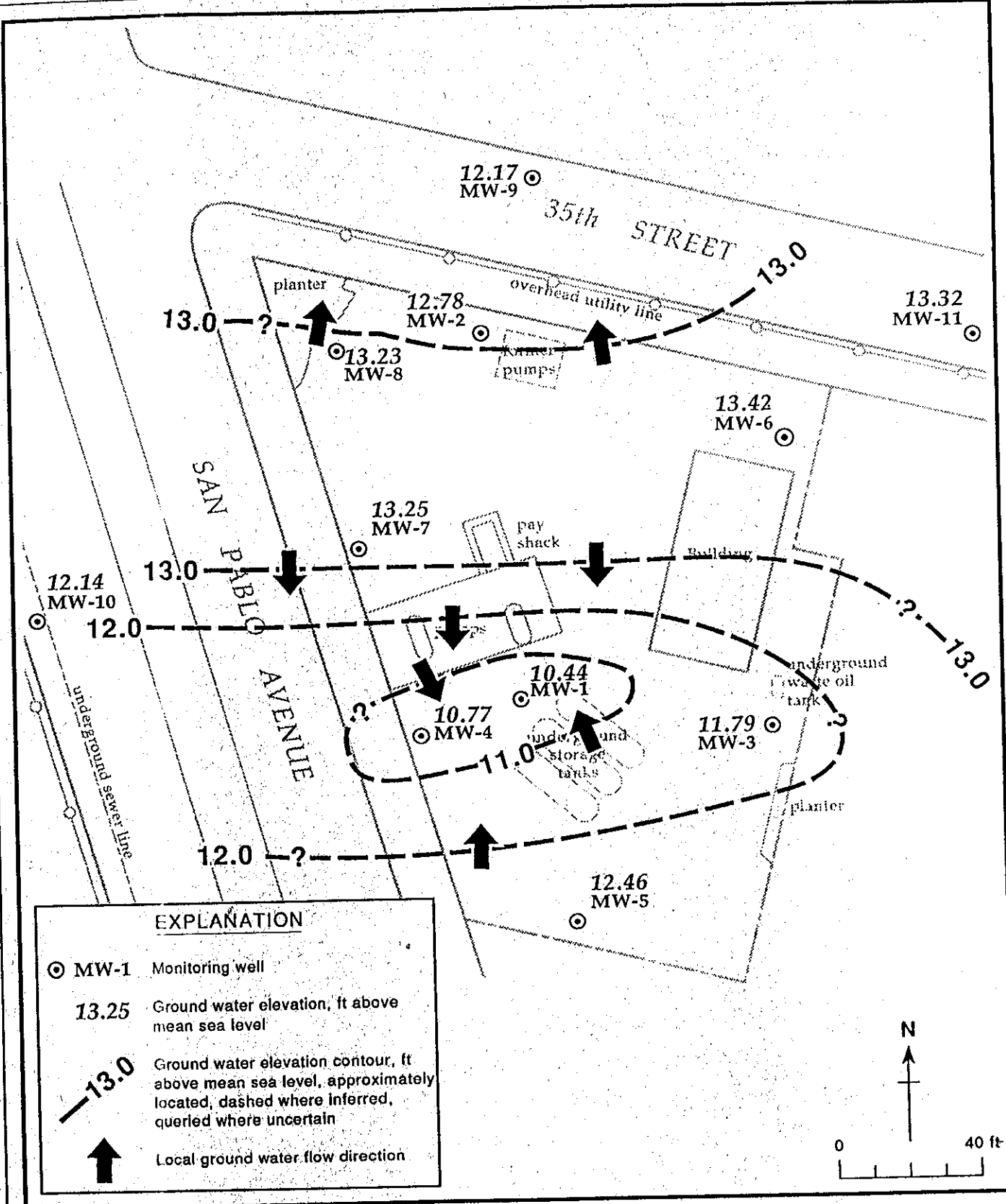
J:\SHELL\600\612QMJA3.WP

Attachments: Figures
A - Emcon Associates Ground Water Monitoring Report

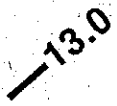

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998
Lisa McCann, California Regional Water Quality Control Board, San Francisco Bay
Region, 2101 Webster Street, Suite 500, Oakland, California 94612

Table 1. Ground Water Elevation Data - Shell Service Station WIC #204-5508-4507, 2142 East 12th Street, Oakland, California

Well ID	Date	Top-of-Casing Elevation (ft above msl)	Depth to Water (ft)	Ground Water Elevation (ft above msl)
MW-1	01/28/92	21.28	10.84	10.44
MW-2	01/28/92	21.56	8.78	12.78
MW-3	01/28/92	21.78	9.99	11.79
MW-4	01/28/92	20.31	9.54	10.77
MW-5	01/28/92	20.91	8.45	12.46
MW-6	01/28/92	22.32	8.90	13.42
MW-7	01/28/92	20.36	7.11	13.25
MW-8	01/28/92	20.95	7.72	13.23
MW-9	01/28/92	21.19	9.02	12.17
MW-10	01/28/92	19.74	7.60	12.14
MW-11	01/28/92	22.06	8.74	13.32



EXPLANATION

- ⊙ MW-1 Monitoring well
- 13.25 Ground water elevation, ft above mean sea level
-  13.0 Ground water elevation contour, ft above mean sea level, approximately located, dashed where inferred, queried where uncertain
-  Local ground water flow direction

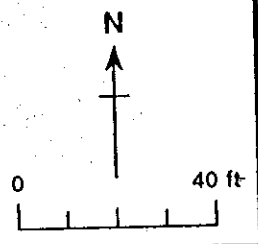


Figure 2. Ground Water Elevation Contour Map - January 28, 1992 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

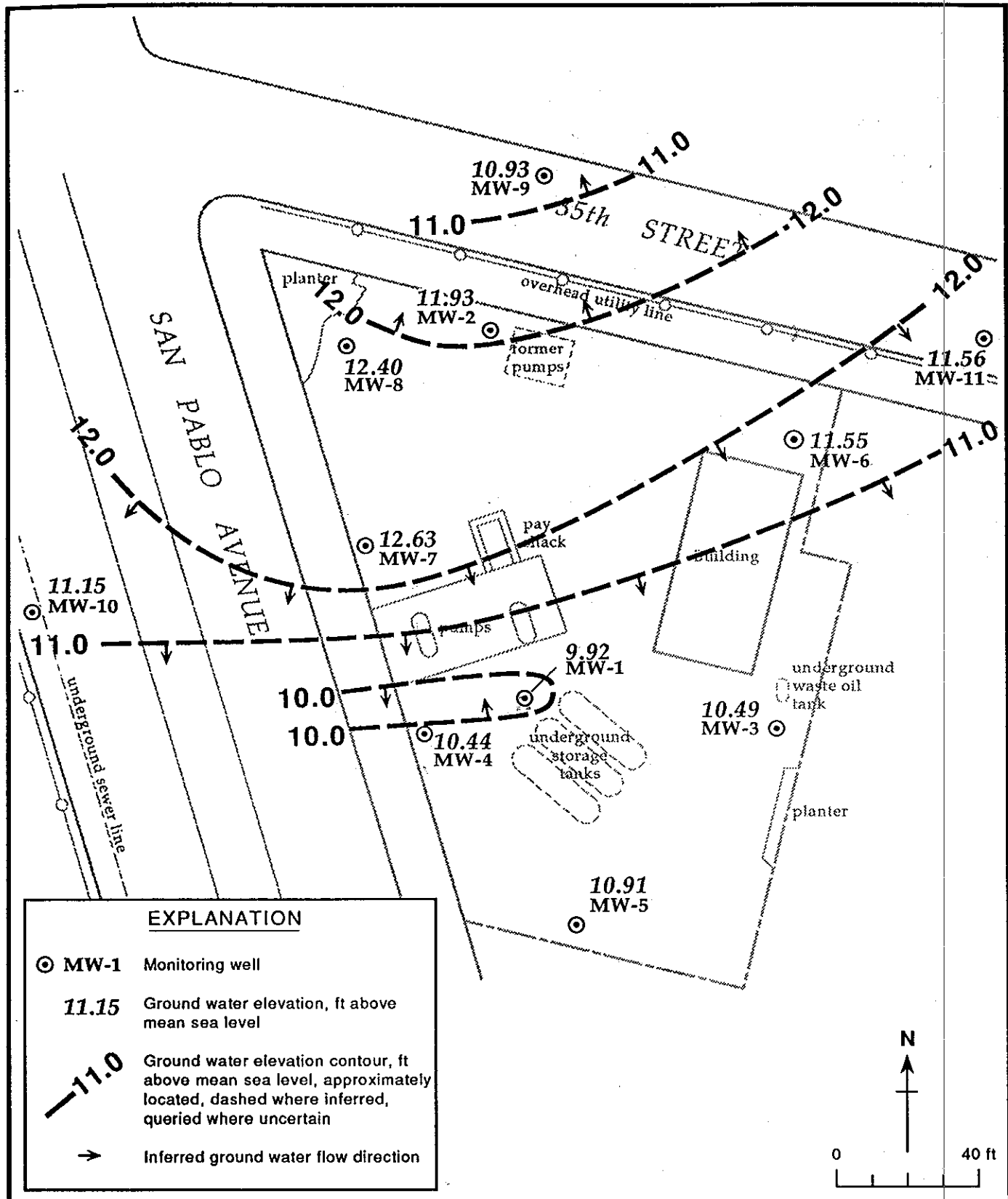


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - July 13, 1992 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

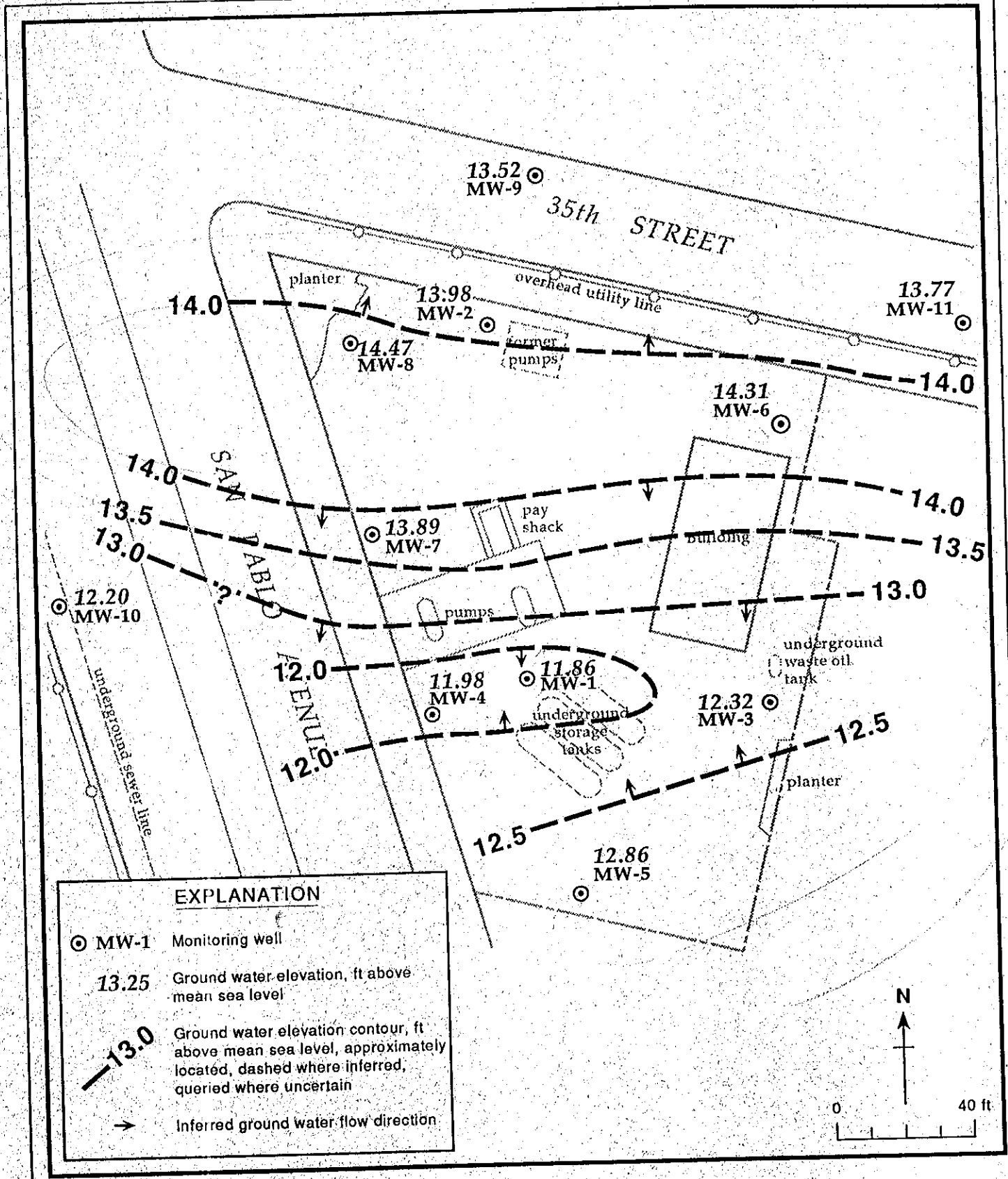


Figure 2. Ground Water Elevation Contours - May 4, 1992 - Shell Service Station WIC #204-5508-5306, 3420 San Pablo Avenue, Oakland, California

North

- LEGEND:
- UTILITY LINES (OVERHEAD)
 - S— SEWER LINE (BURIED)
 - ⊙ MW-1 MONITORING WELL LOCATION (10.60) ABOVE MEAN SEA LEVEL
 - 11.2— WATER TABLE CONTOUR IN FEET ABOVE MEAN SEA LEVEL
 - ↖ GROUND WATER FLOW DIRECTION

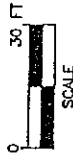
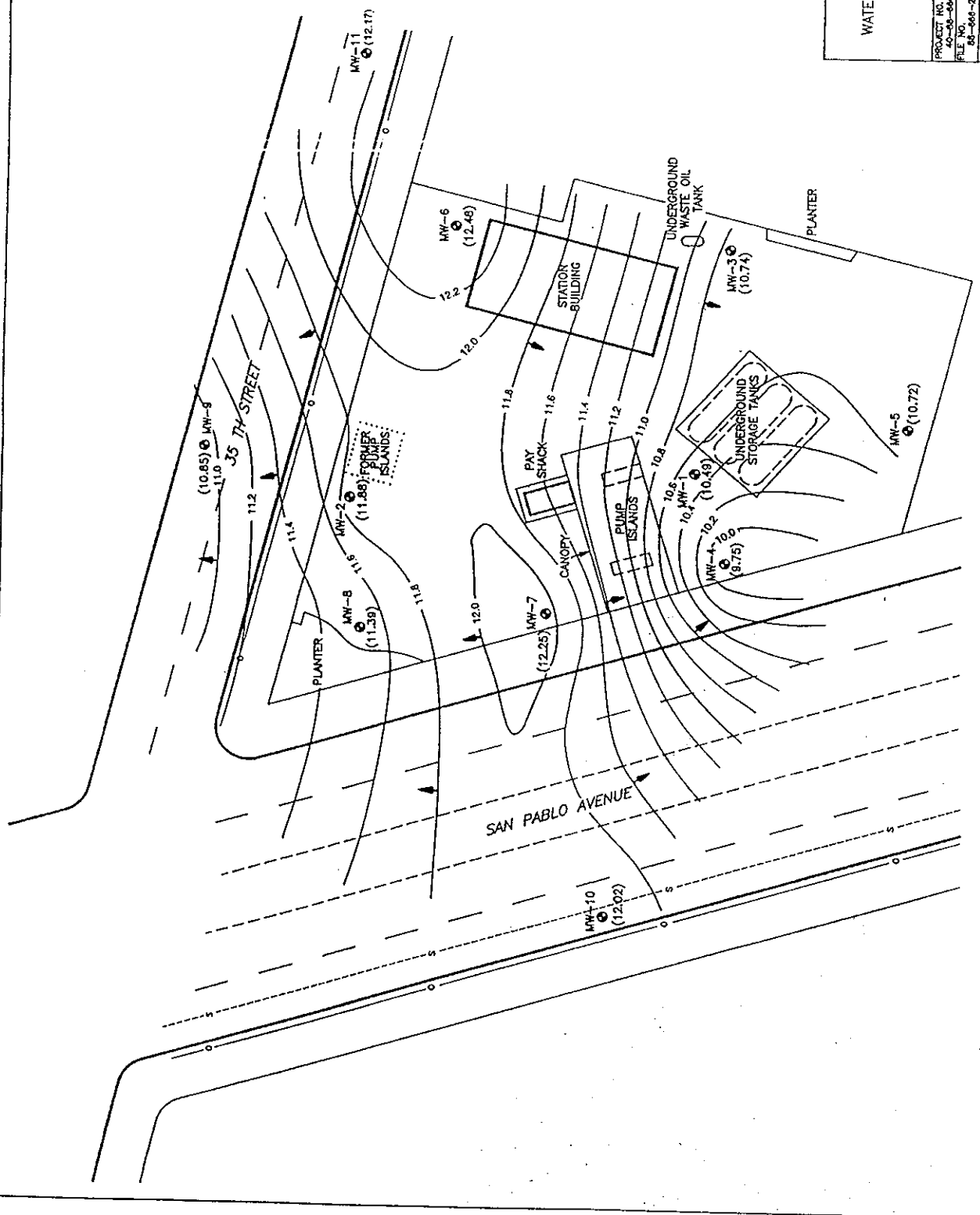
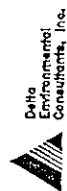
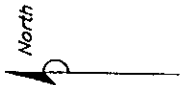


FIGURE 3

WATER TABLE CONTOUR MAP — 11/8/91
3420 SAN PABLO AVENUE
OAKLAND, CA.

PROJECT NO.	40-88-886	DRAWN BY	L.H. 12/12/91
FILE NO.	88-886-2	PREPARED BY	CXA
REVISION NO.	2	REVIEWED BY	12/21/91





LEGEND:

- MW-1 MONITORING WELL LOCATION
- (FP) FREE PRODUCT
- GROUND WATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL
- 11.2 WATER TABLE CONTOUR IN FEET ABOVE MEAN SEA LEVEL
- ↔ GROUND WATER FLOW DIRECTION

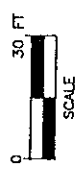
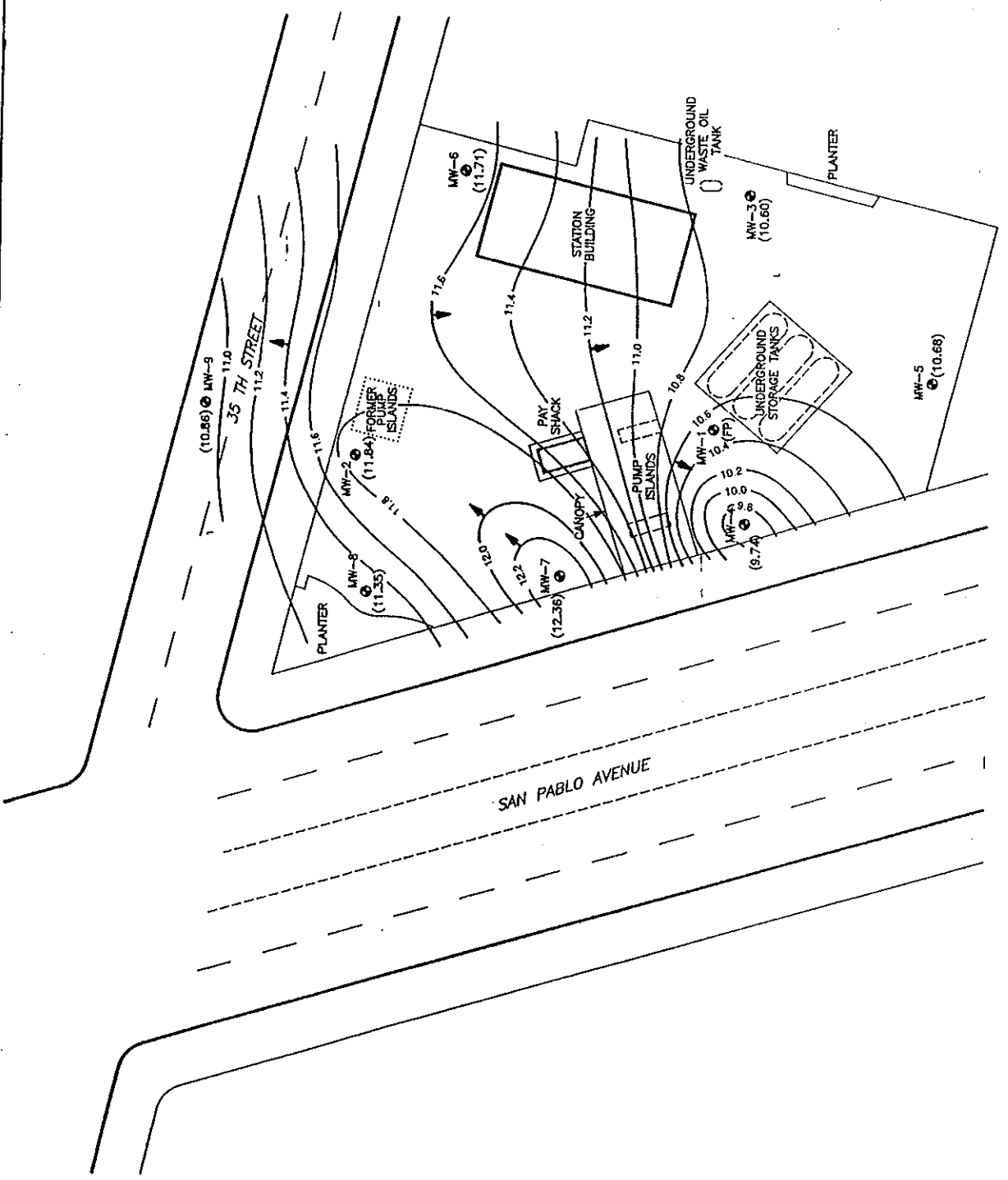


FIGURE 2
WATER TABLE CONTOUR MAP - 8/6/91
3420 SAN PABLO AVENUE
OAKLAND, CA.

PROJECT NO. 40-88-888	DRAWN BY L.H. 9/18/91
FILE NO. 88-006-2	PREPARED BY LFR
REVISION NO. 1	REVIEWED BY [Signature]

Delta Environmental Consultants, Inc.





grettler — ryan inc.

October 21, 1991

Department of Environmental Health
Hazardous Materials Program
80 Swan Way, Room 200
Oakland, California 94621

Attention: Ms. Susan Hugo

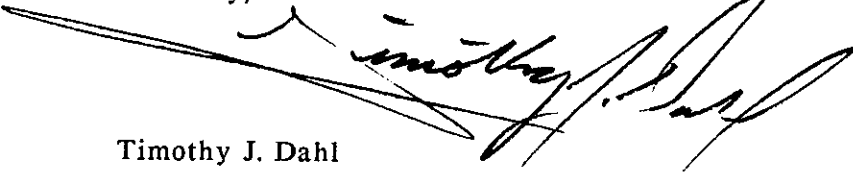
Reference: Shell Oil Company
3420 San Pablo Ave. @ 35th
Oakland, California

Ms. Hugo:

Please find a copy of the Certificate of Tightness for the #1 SU2000 tank and it's product carrying line for the referenced location. Also enclosed are the test results.

Please call me if you should have any questions or comments.

Sincerely,


Timothy J. Dahl

Enclosure

91 OCT 22 11:10:43

STRAIGHT TO YOU FROM VAL MILLER AT
O/C TANKS CORPORATION
IN BEAUTIFUL DOWNTOWN BAKERSFIELD

PHONE NUMBER FAX NUMBER
(805)399-9597 (805)399-8338

TO: SUEAN HUGO

AT: _____

DATE: 8-22-91 # OF PAGES 3

FAX #: 415-568-3706

NOTES: _____



Jobsite Checklist For Tank Precision Test Using The Hydrostatic Tank Monitor

Job Name Shell Oil
 Address SAN PABLO AT 35TH State CA
OAKLAND - CA

Record date and time tank was last filled (wait 24 hours from last delivery)
 Record today's date and time

	Groundwater Level	Tank #1	Tank #2	Tank #3	Tank #4
Record tank U.L. number (if known)					
Product stored					
Tank nominal capacity (gallons)*		<u>12,000</u>			
Preparation:					
1. Measure and record groundwater table level.					
2. Fill reservoir riser pipe approximately 12" over reservoir top. The level in the riser pipe must be at least 12" higher than the groundwater table.					
3. Diameter of reservoir riser pipe.					
4. Inspect all exposed monitoring fitting plugs for leaks.					
Begin test:					
5. Record time (wait three hours after step #2).					
6. Measure and record liquid level in reservoir riser pipe.		<u>16</u>			
7A. Measure and record groundwater table level.					
7B. Record dispenser meter readings.					
8. Record time (wait four hours after completing both steps #6 and #7).					
9. Measure and record liquid level in reservoir riser pipe.		<u>16</u>			
10A. Measure and record groundwater table level.					
10B. Record dispenser meter reading.					
End test:					
Calculate changes:					
11A. Reservoir riser pipe level (Step #6 minus step #9).					
11B. Groundwater level (step #7A less or minus step #10A).					
11C. Dispensed product (step #7B minus step #10B).		<u>0</u>			

2/10/91
2/10/91

Results Interpretation—The calculated changes (lines 11A, 11B, and 11C) must meet all of the criteria in column "B" below to pass the tightness test of .05 gallons per hour with a 95% probability of detection and a 5% probability of a false alarm:

(A) Criteria	(B) Tank* passes test if...	(C) Tank* test is inconclusive if...
Line #11A	Less than 1"	More than 1" ***
Line #11B	and less than 10"	or more than 10" **
Line #11C	and less than 600 gallons	or more than 600 gallons **

Please contact the O/C Tanks Field Service Manager (419) 248-8172 if you have any questions regarding this procedure.

2/13/91
Date

DAVID PROYD
Testing technician's name
(affix business card to bottom of page)

*Use a tape measure and water under #7888-1870 water/brine finding paste by Dayco National Dayton, Ohio to determine accurate liquid levels in site wells and the reservoir.
 **Tank capacity 12,000 gallon capacity or less
 ***Repeat test steps 6 through 11
 ****To improve the test accuracy, discontinue dispensing, then repeat test steps #6 through #11.



O/C Tanks Corporation
 One Levis Square, Box 10025
 Toledo, Ohio 43699-0025

Date 7-23-91

Address of Engineer

SHELL STATION
5111 PABLO AVE / 35TH ST
OAKLAND - CA

RE: Tank Integrity Test
Shell Oil Location

Dear DAN KIRK

Enclosed are the results of the tank integrity tests performed at the above location on (Date). The system used for the tests is the Hydrostatic Tank Monitor for double wall tanks. This system meets or exceeds both the NFPA, and the federal EPA criteria for tank precision testing, and is able to detect a leak rate of .05 gallons per hour with at least a 95% probability of detection and no more than a 5% probability of a false alarm.

This criteria of .05 gallons per hour is not to be construed as a permissible leak rate. Rather, it is an accuracy tolerance of the testing protocol and allows for the many variables involved.

We assume no responsibility for product leakage. Our responsibility extends only to leak testing of the tank on the date tested, within the accuracy tolerance of the Hydrostatic Tank Monitor System.

<u>Tank#</u>	<u>Tank UL#</u>	<u>Tank Capacity</u>	<u>Product</u>	<u>Riser Pipe Level Change (Line 11A)</u>	<u>Test Result (Pass/Fail)</u>
<u>1</u>	<u>N/A</u>	<u>12,000</u>	<u>WATER</u>	<u>-0</u>	<u>PASS</u>
<u>2</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>3</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>4</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>5</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>

Attached is the detailed jobsite checklist for your records. Also enclosed is our invoice.

Regards,

George D. Crosby
Field Service Manager
O/C Tanks

6/27/89

FISHELTEST.GOC/bam

Enclosure



gettler — ryan inc.

FACSIMILE COVER SHEET

TO: Alameda County Enviro Health - Susan Hvaeo

COMPANY: _____

FROM: Barry McLay

DATE: 8-28-91

RE: Ins Cart

COMMENTS: originals mailed 8-22 per our
conversation. Questions please
call

3 pages including cover.

IF THERE ARE ANY PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL (415) 783-7500.

CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)
 04/24/91

PRODUCER
Woodruff-Sawyer & Co.
 120 Bush Street
 7th Floor
 San Francisco, CA 94104

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

COMPANY LETTER	A	Republic Indemnity
COMPANY LETTER	B	
COMPANY LETTER	C	
COMPANY LETTER	D	
COMPANY LETTER	E	

INSURED
Gettler-Ryan Incorporated
 2150 West Winton Avenue
 Hayward, CA 94545-1787

COPY

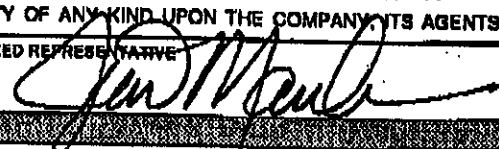
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUSANDS
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input checked="" type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT				GENERAL AGGREGATE \$ PRODUCTS-COMP/OPS AGGREGATE \$ PERSONAL & ADVERTISING INJURY \$ EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MEDICAL EXPENSE (Any one person) \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY				COMBINED SINGLE LIMIT \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	EXCESS LIABILITY <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ AGGREGATE \$
A	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY	PC941426	04/01/91	04/01/92	STATUTORY \$ 1,000 (EACH ACCIDENT) \$ 1,000 (DISEASE-POLICY LIMIT) \$ 1,000 (DISEASE-EACH EMPLOYEE)
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS
 RE: Facility #4931 - 731 W. McArthur Blvd., Oakland, CA.

CERTIFICATE HOLDER
 County of Alameda, Dept. of Environmental Health
 10 Swan Way, Room 200
 Oakland, CA 94621

CANCELLATION
 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE


CERTIFICATE OF INSURANCE

ISSUE DATE (MM/DD/YY)
 03/28/91

PRODUCER
Woodruff-Sawyer & Co.
 220 Bush Street
 7th Floor
 San Francisco, CA 94104

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

INSURED
Gettler-Ryan Incorporated
 2150 West Winton Avenue
 Hayward, CA 94545-1787

- COMPANY LETTER **A** **Fireman's Fund Ins. Co.**
- COMPANY LETTER **B** **Republic Indemnity**
- COMPANY LETTER **C**
- COMPANY LETTER **D**
- COMPANY LETTER **E**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED, NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN. THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

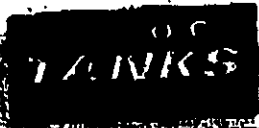
CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS (IN THOUSANDS)
	GENERAL LIABILITY <input type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input checked="" type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR. <input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT				GENERAL AGGREGATE \$ PRODUCTS-COMP/OPS AGGREGATE \$ PERSONAL & ADVERTISING INJURY \$ EACH OCCURRENCE \$ FIRE DAMAGE (Any one fire) \$ MEDICAL EXPENSE (Any one person) \$
A	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input checked="" type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS <input type="checkbox"/> GARAGE LIABILITY	209MZA80082127R	04/01/91	04/01/92	COMBINED SINGLE LIMIT \$ 1,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	EXCESS LIABILITY <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ AGGREGATE \$
B	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY	994725R	04/01/91	04/01/92	STATUTORY \$ 1,000 (EACH ACCIDENT) \$ 1,000 (DISEASE—POLICY LIMIT) \$ 1,000 (DISEASE—EACH EMPLOYEE)
	OTHER				

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/SPECIAL ITEMS
 As respects: Exxon facility 7-0237, 500 Grand Avenue/Euclid Oakland

CERTIFICATE HOLDER
 County of Alameda, Dept. of Environmental Health
 0 Swan Way, Room 200
 Oakland, CA 94621

CANCELLATION
 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE: *Tracy Tenorio*



A CORPORATION OF CALIFORNIA INCORPORATED

O/C TANKS CORPORATION ONE LEVIS SQUARE, P.O. BOX 10025, TOLEDO, OHIO 43609-0025, (419) 246-8000

August 28, 1991

Ms. Susan Hugo
Alameda County Environmental Health

Fax 415-868-3706

Subject: Shell Oil
3420 San Pablo at 35th
Oakland, CA

Dear Ms. Hugo.

O/C TANKS was contacted by Denny of Gettler/Ryan on August 2, 1991, concerning water in the primary tank at the Shell Oil station in Oakland, California.

This tank had been repaired in January of 1991 after an outer wall leak was repaired from the interior of the tank.

O/C TANKS field service technicians have found a leak near the deflector plate in the bottom of the tank. This problem appears to be a lack of bonding the repair to the shell wall creating a channel through the deflector plate.

Our procedure will be to grind the shell wall three feet by three feet and encapsulate this area with a 7 ply fiberglass lay-up. After all repairs are completed, the tank will be tested to ensure the integrity of the work.

If there are any further questions, feel free to contact my office.

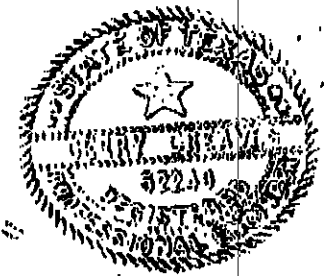
Regards,

George D. Crosby
Field Service Manager

sh

cc: W. V. Miller

Denny Gettler
8/29/91



STRAIGHT TO YOU FROM VAL MILLER AT
O/C TANKS CORPORATION
IN BEAUTIFUL DOWNTOWN BAKERSFIELD

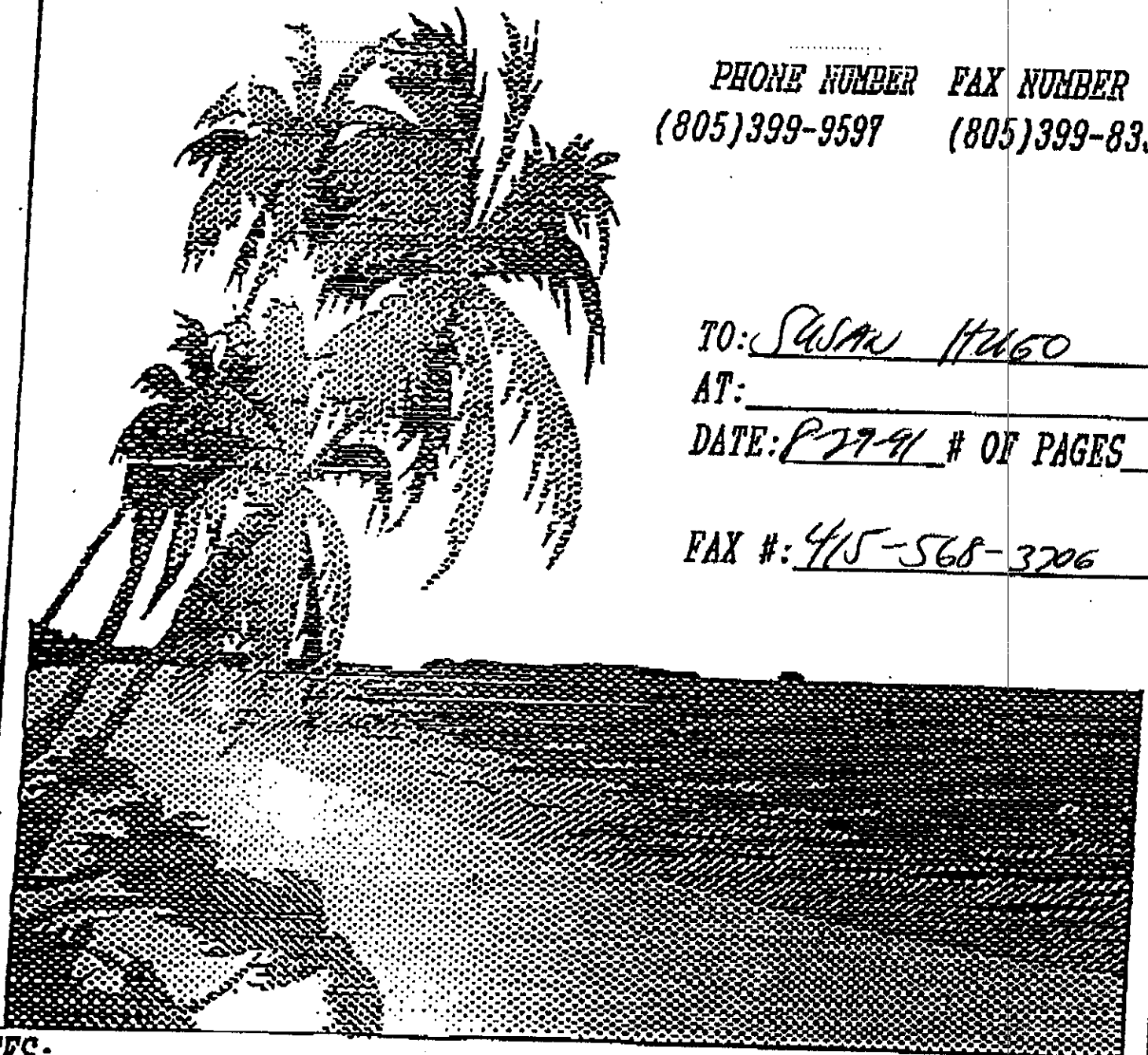
PHONE NUMBER FAX NUMBER
(805)399-9597 (805)399-8338

TO: SUSAN HUGO

AT: _____

DATE: 8-29-91 # OF PAGES _____

FAX #: 415-568-3706



NOTES: _____

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

Hazardous Materials Inspection Form

II, III

Site ID # _____ Site Name Shell Service Station Today's Date 8/22/91

II.A BUSINESS PLANS (Title 19)

- ___ 1. Immediate Reporting 2703
- ___ 2. Bus. Plan Stds. 25503(b)
- ___ 3. RR Cars > 30 days 25503.7
- ___ 4. Inventory Information 25504(a)
- ___ 5. Inventory Complete 2730
- ___ 6. Emergency Response 25504(b)
- ___ 7. Training 25504(c)
- ___ 8. Deficiency 25505(a)
- ___ 9. Modification 25505(b)

Site Address 3420 San Pablo Ave

City Oakland Zip 94608 Phone _____

___ MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

Inspection Categories:

- ___ I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- ___ II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

FAX # - 568-3706

1:30-

II.B ACUTELY HAZ. MATLS

- ___ 10. Registration Form Filed 25533(a)
- ___ 11. Form Complete 25533(b)
- ___ 12. RMPP Contents 25534(c)
- ___ 13. Implement Sch. Req'd? (Y/N)
- ___ 14. OffSite Conseq. Assess. 25524(c)
- ___ 15. Probable Risk Assessment 25534(d)
- ___ 16. Persons Responsible 25534(g)
- ___ 17. Certification 25534(f)
- ___ 18. Exemption Request? (Y/N) 25536(b)
- ___ 19. Trade Secret Requested? 25536

* Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

III. UNDERGROUND TANKS (Title 23)

- General
- ___ 1. Permit Application 25284 (H&S)
 - ___ 2. Pipeline Leak Detection 25292 (H&S)
 - ___ 3. Records Maintenance 2712
 - ___ 4. Release Report 2651
 - ___ 5. Closure Plans 2670

- Monitoring for Existing Tanks
- ___ 6. Method
 - 1) Monthly Test
 - 2) Daily Vadose
Semi-annual groundwater
One time soils
 - 3) Daily Vadose
One time soils
Annual tank test
 - 4) Monthly Groundwater
One time soils
 - 5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
 - 6) Daily Inventory
Annual tank testing
Cont pipe leak det
 - 7) Weekly Tank Gauge
Annual tank testing
 - 8) Annual Tank Testing
Daily Inventory
 - 9) Other _____

- ___ 7. Precs Tank Test 2643
Date: _____
- ___ 8. Inventory Rec. 2644
- ___ 9. Soil Testing 2646
- ___ 10. Ground Water. 2647

- New Tanks
- ___ 11. Monitor Plan 2632
 - ___ 12. Access, Secure 2634
 - ___ 13. Plans Submit 2711
Date: _____
 - ___ 14. As Built 2635
Date: _____

Comments:

UNDERGROUND TANK (SUL) investigated for leaks in the primary containment system. Gettler-Ryan Contractor, o/c-tanks repair

NEEDS:

- ① please send the current worker's comp. insurance certificate of coverage or file expired on 4/1/91
- ② Submit a copy of the precision test results performed on the tank last Jan, 1990, after repairing the secondary containment (wall)
- ③ Site Safety Plan submitted for the repair of secondary wall will remain the same for the investigation of the primary wall.
- ④ Determine if the primary wall ~~can~~ be repaired or not by doing repair evaluation as stated under sec. 26601 of Title 23.
- ⑤ All repairs to be performed must meet the requirements of Title 23 under article 6 (allowable repairs)
- ⑥ Submitting all documentation of work to be done before actual work will commence.

Rev 6/88

Contact: Barry McLoe Title: SAFETY manager Inspector: _____
 Signature: Barry E. McLoe Signature: Susan L. Hugg

SHELL OIL COMPANY
QUARTERLY REPORT TO THE
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD,
BAY AREA REGION

April 11, 1991

Site Address: 3420 San Pablo Avenue Site ID No. 204550853

Oakland, California

County of: Alameda

Actions in the past 3 months:

Seeking encroachment permit for off-site monitoring wells. Performed quarterly ground water monitoring. Bailed free product from monitoring wells MW-1 and MW-2.

Actions planned for the next 3 months:

After rights-of-entry secured, install, develop, and sample off-site monitoring wells. Prepare problem assessment report for Shell, agency review. Perform quarterly ground water monitoring. Bail free product from monitoring wells MW-1 and MW-2.

Soil contamination defined?	<u>No</u>	Soil cleanup in progress?	<u>No</u>
Free product plume defined?	<u>No</u>	Free product cleanup in progress?	<u>Yes</u>
Dissolved constituent plume defined?	<u>No</u>	Dissolved constituent cleanup in progress?	<u>No</u>

Contractor: Delta Environmental Consultants, Inc.

**O/C
TANKS**

A SUBSIDIARY OF OWENS-CORNING FIBERGLAS

91 FEB -6 AM 11:10

O/C TANKS CORPORATION

ONE LEVIS SQUARE, P.O. BOX 10025, TOLEDO, OHIO 43699-0025, (419) 248-8000

February 4, 1991
Ms. Susan L. Hugo
Alameda County Health
800 Swain Way
Room #200
Oakland, CA 94621

Fax # 415-568-3706

Subject: Shell Oil
35th & San Pablo
Oakland, CA

Dear Ms. Hugo,

O/C TANKS Field Service has been called to investigate the outer wall leak at the Shell Oil station in Oakland, California. Our technicians have found an area on the outer wall that has caused the loss of water from the annular space.

This defect in the shell wall is an apparent process error that was not discovered during the initial testing at the plant or before installation.

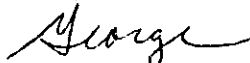
This area has been identified by cutting away the inner wall and locating the area on the outer wall and then remanufacturing this area.

The process of remanufacturing will consist of making the complete repair of the outer wall from the inside of the tank; at this point, the inner wall would be completely repaired and stored to meet or exceed the original tank structural specifications.

After the tank repair is completed, we will conduct an air/soap test to insure the integrity of the remanufactured area and that the inner tank is leak-free after completing the air/soap test. The hydrostatic monitor will be reactivated and a precision test will be conducted on both the inner and outer tank walls.

If there are any further questions concerning the work or procedures, feel free to contact my office at 419-248-8196.

Regards,



George D. Crosby
Field Service Manager

cc: S. C. Macy
L. R. Whately
R. T. Lawrence
W. V. Miller
G13055

(805) 399-9597



A SUBSIDIARY OF OWENS-CORNING FIBERGLAS

O-C TANKS CORPORATION ONE LEVIS SQUARE, P.O. BOX 10026, TOLEDO, OHIO 43699-0026, (419) 248-8000

February 4, 1991
Mr. Steven J. Hugo
Navy's Country Health
600 North Way
P.O. Box 10026
Toledo, Ohio 43699

Dear Mr. Hugo:

Reference is made to your letter of January 22, 1991, regarding the above-captioned project in Lakeland, California. The regulations that apply to this project are those that have caused the loss of water from the project.

The regulations that apply to this project are those that have caused the loss of water from the project. The regulations that apply to this project are those that have caused the loss of water from the project.

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Very truly yours,
[Signature]

cc: S. C. Biny
D. R. Whately
R. T. Lawrence
W. V. Miller
G13055

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name Shell Oil Comp. Today's Date 2/13/91
 Site Address 3420 San Pablo Ave EPA ID# _____
 City Oakland Zip 94609 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
 Hazardous Waste generated per month? _____

Inspection Categories:
 I. Haz. Mat/Waste GENERATOR/TRANSPORTER
 II. Business Plans, Acute Hazardous Materials
 III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

- I.A GENERATOR (Title 22)**
- ___ 1. Waste ID * 66471
 - ___ 2. EPA ID 66472
 - ___ 3. > 90 days 66508
 - ___ 4. Label dates 66508
 - ___ 5. Biennial 66493
-
- Manifest**
- ___ 6. Records 66492
 - ___ 7. Correct 66484
 - ___ 8. Copy sent 66492
 - ___ 9. Exception 66484
 - ___ 10. Copies Rec'd 66492
-
- Misc.**
- ___ 11. Treatment 66371
 - ___ 12. On-site Disp. (H.S.&C.) 26189.5
 - ___ 13. Ex Haz. Waste 66570
-
- Prevention**
- ___ 14. Communications 67121
 - ___ 15. Aisle Space 67124
 - ___ 16. Local Authority 67126
 - ___ 17. Maintenance 67120
 - ___ 18. Training 67105
-
- Contin. gency**
- ___ 19. Prepared 67140
 - ___ 20. Name List 67141
 - ___ 21. Copies 67141
 - ___ 22. Emg. Coord. Trng. 67144
-
- Containers, Tanks**
- ___ 23. Condition 67241
 - ___ 24. Compatibility 67242
 - ___ 25. Maintenance 67243
 - ___ 26. Inspection 67244
 - ___ 27. Buffer Zone 67246
 - ___ 28. Tank Inspection 67259
 - ___ 29. Containment 67245
 - ___ 30. Safe Storage 67261
 - ___ 31. Freeboard 67257
-
- I.B TRANSPORTER (Title 22)**
- ___ 32. Applic./Insurance 66428
 - ___ 33. Comp. Cert./CHP Insp. 66448
 - ___ 34. Containers 66465
-
- Manifest**
- ___ 35. Vehicles 66465
 - ___ 36. EPA ID #s 66531
 - ___ 37. Correct 66541
 - ___ 38. HW Delivery 66543
 - ___ 39. Records 66544
-
- Cont'rs**
- ___ 40. Name/ Covers 66545
 - ___ 41. Recyclables 66800

Comments:

Pressure testing tank w/c was repaired. 3 psi on primary & 5 psi on secondary for 1 hr.
 Will proceed with hydrostatic testing - filling annular space with O.H.2. Tank will be p/ro Site Tested by Pettler Ryan before being put in operation.
 Merrick Floyd - O.K. tank field rep

Contact: _____
 Title: _____
 Signature: _____

Inspector: _____
 Signature: _____

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200
 Oakland, CA 94621
 (415) 271-4320

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name Shell Service Station Today's Date 1/30/91
 Site Address 3420 San Pablo Ave. EPA ID# _____
 City Oakland Zip 94608 Phone _____

MAX Amt. Stored > 500lbs/55g/200cf? Y N
 Hazardous Waste generated per month? _____

Inspection Categories:

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

The marked items represent violations of the Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

I.A GENERATOR (Title 22)

- | | | |
|--------------------------|-----------------------------|---------|
| ___ | 1. Waste ID | * 66471 |
| ___ | 2. EPA ID | 66472 |
| ___ | 3. > 90 days | 66508 |
| ___ | 4. Label dates | 66508 |
| ___ | 5. Biennial | 66493 |
| Manifest | | |
| ___ | 6. Records | 66492 |
| ___ | 7. Correct | 66484 |
| ___ | 8. Copy sent | 66492 |
| ___ | 9. Exception | 66484 |
| ___ | 10. Copies Rec'd | 66492 |
| Misc. | | |
| ___ | 11. Treatment | 66371 |
| ___ | 12. On-site Disp. (H.S.&C.) | 26189.5 |
| ___ | 13. Ex Haz. Waste | 66570 |
| Prevention | | |
| ___ | 14. Communications | 67121 |
| ___ | 15. Aisle Space | 67124 |
| ___ | 16. Local Authority | 67126 |
| ___ | 17. Maintenance | 67120 |
| ___ | 18. Training | 67105 |
| Conlin. Agency | | |
| ___ | 19. Prepared | 67140 |
| ___ | 20. Name List | 67141 |
| ___ | 21. Copies | 67141 |
| ___ | 22. Emg. Coord. Tmg. | 67144 |
| Containers, Tanks | | |
| ___ | 23. Condition | 67241 |
| ___ | 24. Compatibility | 67242 |
| ___ | 25. Maintenance | 67243 |
| ___ | 26. Inspection | 67244 |
| ___ | 27. Buffer Zone | 67246 |
| ___ | 28. Tank Inspection | 67259 |
| ___ | 29. Containment | 67245 |
| ___ | 30. Safe Storage | 67261 |
| ___ | 31. Freeboard | 67257 |

Comments:

A leak was detected in the secondary containment ~~of the tank~~ instead of a gasoline tank. Pottler Ryan and Owens Consulting representatives were on site. Robert Smith of Staff Builders (certified nurse) was also on site. Work involved: determining where the leak is in the secondary containment and assess if it is repairable or not.

Owens Consulting must submit documents or reports of the findings to the department. If repair is to be done on the tank, a workplan must be submitted to the department for approval.

I.B TRANSPORTER (Title 22)

- | | | |
|-----------------|---------------------------|-------|
| ___ | 32. Applic./Insurance | 66428 |
| ___ | 33. Comp. Cert./CHP Insp. | 66448 |
| ___ | 34. Containers | 66465 |
| Manifest | | |
| ___ | 35. Vehicles | 66465 |
| ___ | 36. EPA ID #s | 66531 |
| ___ | 37. Correct | 66541 |
| ___ | 38. HW Delivery | 66543 |
| ___ | 39. Records | 66544 |
| Cont's | | |
| ___ | 40. Name/ Covers | 66545 |
| ___ | 41. Recyclables | 66800 |

Rev 6/88

Contact: _____
 Title: _____
 Signature: Patomas (Pottler Ryan)

Inspector: _____
 Signature: Juan L. Argo

gettler — ryan inc.

FACSIMILE COVER SHEET

James Hugo

Health Dept San Health

Medical

Dept

Tank Repair

San Diego St 35

Oakland

I am not a doctor.

Sincerely,

I have
call in
Byrd, who
hear from
I'll call

THIS FACSIMILE TRANSMISSION IS UNRELIABLE. PLEASE CALL THE NUMBER

ALAMEDA COUNTY HEALTH CARE SERVICE AGENCY
DEPARTMENT OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS DIVISION
80 SWAN WAY, ROOM 200
OAKLAND, CA 94621
PHONE NO. 415/271-4320

Project Specialist (print)

ACCEPTED

DEPARTMENT OF ENVIRONMENTAL HEALTH
470 - 27th Street, Third Floor
Oakland, CA 94612
Telephone: (415) 874-7237

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to ensure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction.

One copy of these accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.

Any change or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notice: This Department at least 48 hours prior to the following required inspections:

- _____ Removal of Tank and Piping
- _____ Sampling
- _____ Final Inspection

Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

~~UNDERGROUND TANK CLOSURE PLAN~~
REPAIR

* * * Complete according to attached instructions * * *

- X1. Business Name Shell Service Station
Business Owner Shell Oil Company
- X2. Site Address 3420 San Pablo Ave @ 35th
City Oakland Zip 946 Phone 653-5709
- X3. Mailing Address PO. 4023
City Concord Zip 94520 Phone 675-6100
- X4. Land Owner Shell Oil Company
Address PO. 4023 City, State CA Zip 94520
- X5. Generator name under which tank will be manifested N/A
- EPA I.D. No. under which tank will be manifested N/A

- 1 -

rev 12/90

6. Contractor Gottler - Ryan Inc
Address 2150 West Winton Ave
City Hayward CA Phone _____
License Type B, CGI, D40 ID# 220793

7. Consultant N/A
Address N/A
City N/A Phone N/A

8. Contact Person for Investigation
Name Dan Kirk Title Engineer
Phone 675-6100

9. Number of tanks being closed under this plan N/A
Length of piping being removed under this plan N/A
Total number of tanks at facility 3

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground tanks are hazardous waste and must be handled **
as hazardous waste

a) Product/Residual Sludge/Rinsate Transporter

Name N/A EPA I.D. No. _____
Hauler License No. _____ License Exp. Date _____
Address _____
City _____ State _____ Zip _____

b) Product/Residual Sludge/Rinsate Disposal Site

Name N/A EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

c) Tank and Piping Transporter

Name N/A EPA I.D. No. _____
Hauler License No. _____ License Exp. Date _____
Address _____
City _____ State _____ Zip _____

d) Tank and Piping Disposal Site

Name N/A EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

11. Experienced Sample Collector

Name N/A _____
Company _____
Address _____
City _____ State _____ Zip _____ Phone _____

12. Laboratory

Name N/A _____
Address _____
City _____ State _____ Zip _____
State Certification No. _____

13. Have tanks or pipes leaked in the past? Yes [] No []

If yes, describe. _____

14. Describe methods to be used for rendering tank inert

N/A

Before tanks are pumped out and inerted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be plugged.

The Bay Area Air Quality Management District (771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

Tank		Material to be sampled (tank contents, soil, ground-water, etc.)	Location and Depth of Samples
Capacity	Use History (see instructions)		
10,000 Gal	N/A	N/A	N/A

One soil sample must be collected for every 20 feet of piping that is removed. A ground water sample must be collected should any ground water be present in the excavation.

Excavated/Stockpiled Soil	
Stockpiled Soil Volume (Estimated)	Sampling Plan
N/A	N/A

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

16. Chemical methods and associated detection limits to be used for analyzing samples

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
N/A	N/A	N/A	N/A

17. Submit Site Health and Safety Plan (See Instructions)

18. Submit Worker's Compensation Certificate copy

Name of Insurer

Submitted to Susan Hugo

19. Submit Plot Plan (See Instructions)

on 1/29/91

20. Enclose Deposit (See Instructions)

@ 11:00 am

21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

(Signature)

22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Signature of Contractor

Name (please type) TIMOTHY DAHL FOR GETTLER - RYAN INC.

Signature *Timothy Dahl*
~~TIMOTHY DAHL~~

Date 1-29-91

Signature of Site Owner or Operator

Name (please type) TIMOTHY DAHL FOR SHELL OIL COMPANY

Signature *Timothy Dahl*
~~TIMOTHY DAHL~~

Date 1-29-91

5683706
CERTIFICATE OF INSURANCE

SRM

01910

ISSUE DATE

04/12/90

PRODUCER

COOPER & COOK INSURANCE SERVICES
 BOX 1030
 P.O. BOX 1030
 SANTON CA 94566

CODE SUB-CODE

INSURED

GETTLER-RYAN, INC.
 2150 WEST WINTON AVENUE
 HAYWARD, CA 94545

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW

COMPANIES AFFORDING COVERAGE

COMPANY LETTER A	NATL UNION FIRE INS CO OF PITTS
COMPANY LETTER B	FIREMANS FUND INSURANCE
COMPANY LETTER C	INS CO OF THE STATE OF PENNSYLV
COMPANY LETTER D	NO AMER CO FOR PROP/CASUALTY
COMPANY LETTER E	REPUBLIC INDEMNITY

COVERAGES

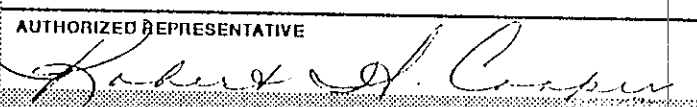
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO TR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	ALL LIMITS IN THOUSANDS	
					GENERAL AGGREGATE	AGGREGATE
A	GENERAL LIABILITY	GL5424154	04/01/90	04/01/91	GENERAL AGGREGATE	\$ 2,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY				PRODUCTS - COMP/OPS AGGR	\$ 1,000
	<input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR.				PERSONAL & ADVERTISING INJURY	\$ 1,000
	<input type="checkbox"/> OWNER'S & CONTRACTOR'S PROT.				EACH OCCURRENCE	\$ 1,000
B	AUTOMOBILE LIABILITY	MZA80082127	04/01/90	04/01/91	FIRE DAMAGE (Any one fire)	\$ 200
					MEDICAL EXPENSE (Any one person)	\$ 5
					COMBINED SINGLE LIMIT	\$ 1,000
					BODILY INJURY (Per person)	\$
					BODILY INJURY (Per acc)	\$
					PROPERTY DAMAGE	\$
					EACH OCCUR	\$ 1,000
C	EXCESS LIABILITY	4790-5698	04/01/90	04/01/91	AGGREGATE	\$ 1,000
	<input checked="" type="checkbox"/> UMBRELLA					
E	WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY	PC994725	04/01/90	04/01/91	STATUTORY	
					\$ 1,000 (EACH ACCIDENT)	
					\$ 1,000 (DISEASE-POLICY LIMIT)	
OTH.					\$ 1,000 (DISEASE-EACH EMPLOYEE)	

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES/RESTRICTIONS/SPECIAL ITEMS
"ALL CALIFORNIA OPERATIONS"

CERTIFICATE HOLDER
 COUNTY OF ALAMEDA
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 80 SWAN WAY, ROOM 200
 OAKLAND, CA 94621

CANCELLATION
 SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE


field service manual
o/c tanks corporation

section Safety
bulletin 7
date 1/1/80
supersedes 1/4/84

SUBJECT: CUSTOMER TANK PREPARATION PRIOR TO ENTRY

POLICY

It is the responsibility of the customer or final owner to properly clean, defume and in general make conditions safe prior to an O/C Tanks Field Technician entering any tank. This includes entry due to O/C Tanks quality problems.

BACKGROUND

O/C Tanks Field Technicians are not authorized to inspect or work on any UGST where conditions are not suitable to ensure their health and safety. Each technician has written tank entry requirements and are not to be violated.

The customer will be required to properly prepare a tank for entry because the customer is in the best position to efficiently do so, i.e.:

- . Cleaning frequently involves specialized equipment arranged for at the local level.
- . O/C Tanks is not equipped, nor trained to clean tanks.
- . Cleaning tanks can be hazardous if one is unfamiliar with the specific precautions that should be observed when working with a particular product.
- . Only a clean tank can be properly inspected.
- . Manway must be unobstructed - free from pumps, piping, etc.

PROCEDURE

The Field Service Department will, at first telephone contact, inform the job contact of the following requirements that must be met prior to entry of a UGST.

A. Petroleum Tanks

1. The tank must have had the product pumped out to within 1" or less of the bottom. This requires the use of hand pump.
2. Fuel oil tanks must not only be pumped nearly dry but also manually cleaned out.
3. After pumping out, the tank must be ventilated until it is vapor free. The use of an exhausting eductor (venturi) on the fill tube is recommended. The tank will not be cut into until the vapor level in the tank is less than 10% LEL.

Entry Procedure (cont'd)

7. Initial Entry

When the above entry requirements are met, entry may be made with the use of an approved air-supplied mask and an Egress air cylinder.

Prior to the first entry of the day, test the vapor level from outside the tank. If less than 10% LEL, take the meter into the tank and check for hot spots. If the O_2 is less than 19.5% or the vapor level exceeds 20% LEL, exit the tank and continue ventilating.

Remove any residual product with an approved pumping system or by manual means. Dry the area with rags or "oil dry" material and dispose of in a safe place.

Plug internal openings after the air check.

- a. Manifolded vent lines may be plugged with an expandable plug or by forcing the ball of a check valve arrangement up tight against the fitting with wood.
- b. Submerged pumps, if not removed, are to be electrically disconnected and locked out, then capped at the bottom. The return line is to be plugged with a cork.
- c. Suction and siphon lines are to be capped or enclosed in plastic to prevent drips.

8. Continuous Monitoring

Vapor level and O_2 level must be monitored continuously, either through the entry hole or down the exhauster with the probe (at least 12" below the exhauster into the fill pipe). Readings above 20% LEL or less than 19.5% O_2 require work to cease, and workers to immediately exit the tank, and an investigation as to the source with subsequent correction.

9. Inspection

Inspect the tank for damage; record all data on appropriate sheet.

10. Repair

If an agreement is reached and the tank is to be repaired, proceed as follows:

- a. The tank must be mechanically ventilated at all times.
- b. Complete the Confined Space Entry Permit and post at tank entry hole. (Note: A new Confined Space Entry Permit is required for each day's entry or for re-entry during the work day if work is stopped, such as for lunch.)
- c. Instruct the safety observer and standby of their duties and emergency procedures.
- d. A safety harness with lifelines is required for in-ground tank entry.

lay-up around the fitting plate or on the weld on the fitting which secures the coupling to the fitting plate.

1. Remove fitting and fitting plate. This removal is done by utilizing abrasive tools and breaking all bond between the fitting plate and the tank wall.
2. Prepare tank for acceptance of a new fitting. Grind off all old lay-ups and insure that tank wall is not damaged underneath the adjoining ribs.
3. Install new fitting using factory technique. If the fitting plate does not match the curvature of the tank due to tank deflection, increase the numbers of plies of mat beneath the fitting plate.

PROCEDURE - Internal Repairs *

A. Tank Entry - When tank entry is required and there is no manway on the tank to allow for entrance, entry must be made through the endcap. On tanks in which a hemispherical endcap is present, entrance should be made through the hemispherical endcap. Prior to entry, the following procedures will be followed:

2. Impact hole larger than four inches in diameter:
 - a. Bridge the hole utilizing tape or a section of the wall which has been broken in, if possible. Insure that this bridge is smooth and does not disrupt the shape of the wall.
 - b. Grind the entire area around the hole, insuring that ground area extends around the damage and the bridging material a distance equal to the diameter of the hole being repaired.
 - c. Lay-up the hole. Secure materials equal to the size of the ground area. Lay-up should consist of seven plies of alternating mat and woven roving, starting and finishing with mat.
 - d. If ribs are required to be removed in either of these impact holes, the procedure to replace ribs is to be followed.

G. Crushed or Cracked Ribs - A cracked rib is defined as a fracture on the

REPAIR PROCEDURE - UNDERGROUND STORAGE TANKS

PURPOSE

This procedure is established to provide guidelines when making field repairs on fiberglass underground storage tanks (UGST's). This procedure covers repairs made on tanks that are above ground and those that are buried.

PROCEDURE - General

A. Unusual and unexpected hazards may be encountered when UGST's are being repaired. For this reason, field personnel having cause to enter UGST spaces will exercise proper safety precautions as outlined in the safety procedures.

B. All repairs are to be made using UL listed raw materials such as resin,

General Requirements

1. Instruct the Safety Observer (cont'd)

- b. Attempt to pull the technician toward the entry hole by means of the lifeline.
- c. Put on the safety harness and attach lifeline.
- d. Put on the SCBA and test operation.
- e. After the arrival of the fire department or rescue squad, assist in the rescue and removal of the man.

2. Remove All Possible Product

Use a hand pump or approved flammable fluid pump to remove as much product as possible. No more than 1" of product should be in the tank prior to ventilation.

3. Start Ventilation

Connect an approved air-driven air mover to exhaust air from the fill pipe or other pipe or hose within 12" of tank bottom. The air mover must be bonded to the tank and grounded when in use. Extend exit point of exhaust at least 12 feet above grade.

Continue to ventilate until test with the combustible gas meter indicates the LEL is less than 10% within 12" of tank bottom. Stop venting for 15 minutes then take combustible gas test. Then continue venting until 10% LEL. Remove the fill pipe to check. Ventilation can take between 2 and 24 hours depending on the amount of product left in the tank.

If tank lines are manifolded, the line of the tank to be entered must be broken and blanked off to isolate the tank and allow defuming of the tank.

4. Cut Entry Hole

Cut entry hole, if cutting is required, only after tests confirm the vapor level with 12" of the tank bottom is 0% of the LEL. Use only an air powered saw. The minimum hole size to facilitate rescue if required is 18" x 18".

5. Tests Before Entering

After the entry hole is cut, check the vapor level and O₂ level through the entry hole.

Minimum entry requirements are:

Vapor level less than 10% LEL with approved air-supplied respirator
O₂ level greater than 19.5%
If vapor rises above 20% must leave tank and continue venting until below 10% again.

6. Confined Space Entry Permit

Obtain a completed Entry Permit or complete the attached Confined Space Entry Permit and post near the entry hole.

Safety Bulletin #1
 1/9/90

ITEM	PREFERRED EQUIPMENT	APPROVED ALTERNATES
Self Contained Breathing Apparatus (Rescue Air)	Bio Marine Industries Bio Pak	
Wrist Harness	Atlas Safety Equipment No. 130 Wristlets . No. 520 Safety Line . No. 500 Safety Line with 50 ft. 1/2" Dia. Polypropylene Rope	Any Equivalent - Must be NIOSH approved
Rope Ladder	Atlas Safety Equipment No. 363 Ladder with Polyethylene Side Rails - length to be Specified	Any Equivalent - Must be NIOSH approved
Space Heater	Hopeco Ventilating Heater No. ACH-2 Propane Fixed 500 CFM 30,000 BTU/Hr.	
O ₂ Analyzer	Bio Marine Series 200-04225 0-25% with Remote Sensor & Leather Carrying Case	
Fire Extinguisher	All Purpose A-B-C Type Dry Chemical Capacity 10 lbs. Min., UL Rating 3-A, 30-B, C Min.	
Air Mask Filter	3M Air Purifier & Regulator Panel Cartridge W-2811	Del-Monox 150B Cartridge Type BA-5
Air Mask CO Monitor/Alarm	Dynamation Model ABL-50-12 Volt DC Calibration Connector #75-540 Calibration Gas #74-20 Test Gas #74-200 Humidifier #75-315	
Pump-Flammable Fluids	Sandpiper Model SA2-A 2" with Buna N Parts	Any equivalent air driven diaphragm type pump
Organic Respirator	Per current O/C Tanks plant approved Personnel Protective Equipment List Gas Tech 2417534	
Comonitor		

field service manual
e/o tanks corporation

section Safety

bulletin 1

date 1/1/90

supersedes 1/4/84

APPROVED SAFETY DEVICES

<u>ITEM</u>	<u>PREFERRED EQUIPMENT</u>	<u>APPROVED ALTERNATES</u>
Combustible Vapor and O ₂ Alarm	Bio-Marine No. 900R . Calibration Kit P/N 160 . Batter Charger P/N 140 . Calibration Cylinders . Lead Filters P/N 137 . Carry Case P/N 147 . Probe	Gas Tech Model 1214
Fresh Air Mask	MSA Constant Flow Respirator 460863 . Ultra View Face . Air Hose 455022 . Couplings	Any equivalent with NIOSH approval
Portable Light	Teledyne Explosion Proof Lantern 287EX	Any portable light rated for use in explosive atmosphere
Air Mover - Electric	Coppus Vanco "C" Explosion Proof	UL Class/Group D
Air Mover - Air Driven	Coppus Jectair Air Mover 3" Model Equipped with Grounding Device	Lamb Air Mover 3" Model or Equal Per Rated Capacity
Pipe Plugs (Internal Expanding)	Moeller Mfg. Co. <u>Pipe I.D.</u> <u>Moeller No.</u> 1" 44141-4 1-1/4" 44050-4 1-1/2" 44165-3 1-3/4" 44027-2 2" 44098-3 2-1/4" 44402-2 2-1/2" 44052-2 3" 44117-4 3-7/8" 40246-2	
Chock Harness	Atlas Safety Equipment Nylon No. 238	Any Equivalent-Must be NIOSH approved
Self Contained Breathing Apparatus (Escape Air)	Survivor Hippack System	Any equipment with NIOSH approval and minimum 10 min. air supply

field service manual
o/c tanks corporation

section Safety
bulletin 2
date 1/1/90
supersedes 1/4/84

FIELD SAFETY - GENERAL

I. POLICY

Unusual and frequently unexpected acute hazards may be encountered when Field Service personnel must enter a tank, manhole or pipe. For this reason, all O/C Tanks personnel having cause to enter a tank, manhole, pipe, pit, ditch, or other confined space will exercise proper safety precautions as outlined in this procedure and others that apply to specific situations.

II. RESPONSIBILITY

Safety is the responsibility of each O/C Tanks employee. Ultimately, this responsibility rests with the Field Service Manager operating the Field Service Organization. In fulfilling this responsibility, the Field Service Manager shall:

- A. Insure that proper safety equipment is available, in good working order, and that the operation and calibration of instruments is understood by Field Technicians.
- B. Insure that employees under their control understand and comply with the various safety Policies, Procedures and Precautions as provided.

III. HAZARDS

The hazards commonly encountered are:

- A. Toxic vapors in fatal concentrations - may result from known material in the tank, by gradual release from sludge or scale, or be introduced by leakage from interconnected systems due to failure to blank off or disconnect pipelines or ducts.
- B. Lack of oxygen, causing asphyxiation - may result from chemicals absorbing or replacing oxygen in the tank air or from inert gas often used to exclude oxygen to reduce the possibility of explosions. Air in clean tanks closed for an extended period may become deficient in oxygen. Improper or inadequate ventilation during tank work may also result in a lack of oxygen.
- C. Electric shock from portable lights, tools or associated electrical equipment.
- D. Injury from mechanical equipment such as mixers, conveyors, etc., inadvertently activated.
- E. Bodily injury from direct contact with corrosives or dermatitis-producing chemicals.

III. HAZARDS (cont'd)

- F. physical hazards such as slipping, falling and falling objects.
- G. Burn hazards resulting from accidental opening of a steam valve in a line which has not been blanked off or ignition of flammable vapors.
- H. Fire and explosion from flammable liquid vapors such as gasoline.

IV. SAFETY REQUIREMENTS - GENERAL

Every attempt has been made to make the safety procedures established by these instructions as foolproof as possible. However, there is no substitute for constant alertness and intelligent planning in every vessel or pipe entry situation.

In addition to rigid enforcement of the provisions of the established procedures, it is essential that all persons involved in each job recognize the extreme hazards involved and act accordingly. Enforcement of these minimum safeguards will under no circumstances be considered as relieving those involved from responsibility for any unforeseen development or circumstance.

If the conditions of the procedures cannot be specifically met or if questions arise from the interpretation of any part of these procedures, they are to be referred to the technicians immediate supervisor for resolution.

SAFETY PROCEDURE - UNDERGROUND PETROLEUM TANK ENTRY

The following procedure will be employed whenever an OCF Field Technician has cause to enter an underground petroleum storage tank, either for inspection or repair. Any additional state, local or federal regulations must be observed. Additional customer requirements should be cleared through Field Service in Toledo.

General Requirements

1. Only air-powered mechanical tools are to be employed.
 2. The tank is to be mechanically ventilated at all times that a man is inside the tank.
 3. Use of a positive pressure air-supplied mask with Egress cylinder is required at all times unless it can be absolutely ascertained that the tank has never contained a product and is vapor free, toxic hazard free and contains sufficient O₂.
 4. An approved safety harness with lifelines attached must be worn by the man entering the tank.
 5. Tanks having an atmosphere over 130°F are not to be entered.
 6. Only an approved explosion proof light source is to be used.
 7. A Confined Space Entry Permit is required to be completed and posted prior to each tank entry.
 8. A reliable safety observer with an SCBA safety harness and an air horn with no duties other than assisting and monitoring the O/C Tanks technician, must be available for immediate use at all times. The safety observer is allowed to pass tools and similarly assist the man in the tank as long as voice and preferably visual contact is maintained. If the safety observer must leave the tank area, the technician is to halt work and exit the tank immediately.
- In addition to the primary safety observer, one (1) additional man must be within hearing distance and aware of the air horn signal and summon outside assistance (fire department, rescue squad, etc.) and stand by to direct them to the scene and also to help in a physical rescue if required.
9. No flash pictures are to be taken in the tank.
 10. No air tests are to be performed on a tank containing product. Reference NEPA 329.

General Requirements (cont'd)

- 11. Backfill and/or slab must be properly shored to prevent collapse or cave-in.
- 12. No product deliveries are to be made to any tank on the site while a man is in a tank.

Entry Procedure

1. Instruct Safety Observer

- a. Monitoring the combustion and O₂ meter.
- b. Being alert for possible sources of ignition (cigarette smokers, open flames, etc.).
- c. Constantly watching for erratic movements of the technician while he is in the tank.
- d. Assisting in feeding and pulling lifelines and air lines.
- e. Assisting the technician by passing tools, materials, etc.
- f. Maintaining visual or voice contact with the man in the tank.
- g. Putting on the safety harness and use of lifelines.
- h. Use of SCBA and air horn.
- i. Emergency procedure and telephone numbers.

The safety observer is to tell the technician (yell loudly, sound air horn) to exit tank if:

- a. The alarms on the combustion and O₂ meter go off.
- b. The compressor stops or something interrupts or restricts air supply to the technician.
- c. A source of ignition is close by.
- d. The movements of the technician indicate he is getting "drunk" or otherwise unstable.
- e. A fire breaks out in the tank or in the immediate area of the technician in the tank.

The safety observer is not to enter the tank for rescue under any circumstances until a rescue team is on the scene.

If physical rescue is required, the safety observer is to:

- a. Summon the backup man (sound air horn if necessary) who will immediately call for outside help (fire department, rescue squad, etc.).



SHELL OIL CORPORATION
 QUARTERLY REPORT TO THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
 County of ALAMEDA Date of Report: 10/15/90

Site ID: 204550853 3420 SAN PABLO AVE City of OAKLAND

Actions in past three months: SOUGHT ENCROACHMENT PERMIT FOR OFF-SITE MONITORING WELLS. PERFORMED QUARTERLY GROUND WATER MONITORING.

Actions planned for next three months: AFTER RIGHTS-OF-ENTRY SECURED, INSTALL DEVELOP, AND SAMPLE OFF-SITE MONITORING WELLS. PREPARE PROBLEM ASSESSMENT REPORT FOR SHELL, AGENCY REVIEW.

Soil contamination defined?	No	Soil clean-up in progress?	No
Free product plume defined?	No	Free product clean-up in progress?	No
Dis'ld const'nt plume defined?	No	Dis'ld const'nt clean-up in progress?	No

Contractor: DELTA ENVIRONMENTAL

853 - -



Delta
Environmental
Consultants, Inc.

3330 Data Drive
Rancho Cordova, CA 95670
916/638-2085
FAX:916/638-8385

90 APR -4 AM 11:00

March 29, 1990

Mr. Dennis Byrne
Environmental Health Services
Hazardous Materials Department
County of Alameda
470 27th Street
Oakland, California 94607

Subject: Project Status - Shell Service Station
3420 San Pablo Avenue, Oakland, California
Delta Project No. 40-88-666

Dear Mr. Byrne:

This letter is an update on work currently being performed for the subject site. On January 18 and 19, 1990, five monitoring wells were drilled and installed. All monitoring wells were later sampled. A report with findings is forthcoming. Quarterly sampling will be performed in April 1990.

If you have any questions regarding this site, please call me at (916) 638-2085.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Hal Hansen

Hal Hansen
Hydrogeologist/Project Manager

HH:ecd

cc: Ms. Lisa McCann, California Regional Water Quality Control Board,
San Francisco Bay Region
Ms. Diane Lundquist, Shell Oil Company



Delta
Environmental
Consultants, Inc.

3330 Data Drive
Rancho Cordova, CA 95670
916/638-2085
FAX:916/638-8385

89 NOV 31 AM 10:36

November 20, 1989

Mr. Dennis Byrne
Environmental Health Services
Hazardous Materials Department
County of Alameda
470 27th Street
Oakland, California 94607

Subject: Project Status--Shell Service Station
3420 San Pablo Avenue, Oakland, California
Delta Project No. 40-88-666

Dear Mr. Byrne:

This letter is to update you on the status of the subject site. Delta Environmental Consultants, Inc. (Delta), has been seeking an encroachment permit from the City of Oakland to proceed with the second phase of hydrogeologic assessment described in Delta's *Preliminary Hydrogeologic Assessment Report*, dated July 31, 1989.

The acquisition of this permit has taken longer than anticipated due to the City's reviewing process. It is believed that the permit application will be approved prior to December 1, 1989. As soon as the permit is obtained, Delta is ready to proceed with the second phase of our hydrogeologic assessment, including advancement of four soil borings and installation of four monitoring wells, as described in the aforementioned report.

If you have any questions, please call me at (916) 638-2085.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Hal E. Hansen

Hal E. Hansen
Hydrogeologist/Project Manager

HEH:mjd

cc/enc: Ms. Lisa McCann, California Regional Water Quality Control Board,
San Francisco Bay Region
Ms. Diane Lundquist, Shell Oil Company

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

19 July 1989

Hal Hansen
Delta Environmental Consultants, Inc.
3330 Data Drive
Rancho Cordova, CA 95670

Subject: Requested File Search concerning 3400 San Pablo Avenue,
Oakland, CA 94608.

Dear Mr. Hansen:

Enclosed please find the boring logs and analytical data present in our files concerning the facility listed above. This information is being communicated to you as per your written request of 5 July, 1989.

This packet is limited to information available to this department and does not reflect information which may be accessible from other agencies or businesses involved with this property.

Please direct any further correspondence or questions which you may have regarding this matter to Dennis Byrne, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,

Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:DB



Delta
Environmental
Consultants, Inc.

3330 Data Drive
Rancho Cordova, CA 95670
916/638-2085
FAX:916/638-8385

7/6/89
CLARK COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS

July 5, 1989

Mr. Dennis Byrne
Environmental Health Services
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, California 94621

Subject: Request for Information
3400 San Pablo Avenue
Oakland, California
Delta Project No. 40-88-666

Dear Mr. Byrne:

Delta Environmental Consultants, Inc. is requesting information on soil and ground water contamination at 3400 San Pablo Avenue in Oakland, California. Any information regarding this site would be greatly appreciated.

If you need any additional information or have any questions, please don't hesitate to call me at (916) 638-2085. Thank you for your cooperation in this matter.

Sincerely,

DELTA ENVIRONMENTAL CONSULTANTS, INC.

Hal Hansen

Hal Hansen
Hydrogeologist

HEH:cf
Enclosure

ALAMEDA COUNTY
HEALTH CARE SERVICES
DAVID J. KEARS, AGENCY
~~CARL N. KESTER~~, Agency Director



Department of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621

15 March, 1989

~~AGENCY HEADQUARTERS~~
~~XXXXXXXXXX~~
~~XXXXXXXXXXXXXXXXXXXX~~
(415) 271-4320

Daryl Nations
Delta Environmental Consultants, Inc.
11030 White Rock Road
Suite 110
Rancho Cordova, Ca. 95670

Subject: Monitoring Well Installation at 3420 San Pablo Avenue in
Oakland.

Dear Mr. Nations:

Thank you for the work plan submitted to our office concerning the installation of four groundwater monitoring wells at 3420 San Pablo Avenue in Oakland. The proposed well locations and follow-up analysis meets with the approval of the Alameda County Department of Environmental Health, Hazardous Materials Division.

If you have any questions concerning this matter, please contact, Dennis Byrne, Hazardous Materials Specialist, at (415) 271-4320.

Sincerely,

Rafat A. Shahid

Rafat A. Shahid, Chief,
Hazardous Materials Division

RAS:DB

FUELLEAK CASE FORM

Enter Date 5/5/89
Review Date 5/1/89
Date of Last Corr 2/15/89
Report Date 2/15/89
Rev Stat C
Evaluator ORC

Site Name Shell
Street Number 3420
Street San Pablo Ave
City Oakland
Zip _____
County 01

Primary Substance 8006619
Secondary Substance _____

Max. Soil Conc. (ppm) 1400
Soil Affected (Y) U
Max. GW Impact (ppb) _____
Case Type S G D (U)
Groundwater Depth 8

~~Missing Tests~~ _____
Proof AD

Well Status NW
Priority B3
Rank _____
Status N

Xdate _____
Tdate _____
Idate _____
Rdate _____
Cdate _____
Pdate _____
Enfrdate _____
Sdate _____

Perm 1 2 3
Abate Method NT

Lead Agency L R (U) Division LPC
Consultant DEL Lab ANX

Funds S F
Enforce Type (0) 1 2
Pilot Program Y N
RP Search (S) I R N

Comment (80 Characters)
Plan for definition extent identification