

ENVIRONMENTAL  
PROTECTION

ENVIRONMENTAL RESOLUTIONS, INC.

October 23, 2000  
ERI 200914DR.L05

Mr. Darin L. Rouse  
ExxonMobil Refining and Supply  
P.O. Box 4032  
Concord, California 94524-4032

Subject: Soil Disposal Documentation for Former Exxon Service Station 7-0236,  
6600 East 14<sup>th</sup> Street, Oakland, California.


Mr. Rouse:

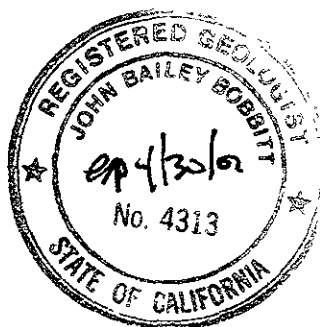
At the request of ExxonMobil Refining and Supply (formerly known as Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) performs environmental activities at the subject site. This letter documents the disposal of the soil stockpile from the subject site. The stockpile was generated during the destruction of groundwater monitoring wells MW2 through MW6 and MW8. Well destruction and associated activities are detailed in ERI's report entitled *Groundwater Monitoring Well Destruction at Former Exxon Service Station 7-0236*, dated August 24, 2000.


On September 25, 2000, Dillard Trucking, Inc. (Dillard) of Byron, California, under direct contract to ExxonMobil, transported approximately 0.5 tons of soil to Republic-Vasco Landfill in Livermore, California for disposal. Soil disposal documentation provided by Dillard is attached.

Please call Mr. James F. Chappell at (415) 382-4323 with any questions regarding this project.

Sincerely,  
Environmental Resolutions, Inc.

  
James F. Chappell  
Assistant Project Manager



  
John B. Bobbitt  
R.G. 4313

Attachment: Soil Disposal Documentation

cc: Mr. Barney Chan, Alameda County Health Care Services Agency, Department of  
Environmental Health  
Ms. Lisa Motoyama, Resources for Community Development

Dillard Trucking, Inc. dba

*Dillard Environmental Services*

P.O. Box 579 • Byron, CA 94514  
Phone (925) 634-6850 – Fax (925) 634-0569  
EPA #CAD981692809 • D.T.S.C. #1715 • CA LIC #624665-A HAZ

October 10, 2000

Mr. James Chappell  
Environmental Resolutions, Inc.  
73 Digital Drive, Suite 100  
Novato, CA 94949

**RE: EXXON #7-0236**  
**6600 East 14<sup>th</sup> Street**  
**Oakland, California**

Dear Mr. Chappell:

Please be advised that the .5 tons of petroleum contaminated soils from the referenced site has been removed. The soil was transported for disposal to Republic-Vasco Landfill in Livermore, CA on September 25, 2000.

Should you have any questions, please do not hesitate to call.

Sincerely,

Dillard Trucking, Inc. dba,  
**DILLARD ENVIRONMENTAL SERVICES**

*Lynette Smith*

Lynette Smith  
Customer Service Representative

/Enclosure



WASTE ACCEPTANCE AND HANDLING RECORD

Date	Thursday, September 21, 2000
Exxon #	exxon #7-0235
Address	6600 c. 14st
City	Oakland
State	CA
Material	dillard Exxon
Quantity	9/21/00
Weight	9/21/01
Material	soil
Material	ADC

The above is a recommendation of the Vasco Road Landfill. It must be understood that management of the waste for disposal must be in compliance with the facility's permit and applicable federal, state and local regulations. The approval is based upon a review of the information provided by the generator and is contingent upon the receipt at the disposal facility of a waste material essentially equivalent in chemical composition and physical properties to that as defined above.

AT THE REQUEST OF EXXON MOBIL

A MINIMUM OF ONE SIGNED AND COMPLETED COPY OF THIS FORM MUST ACCOMPANY EACH LOAD. ONE COPY WILL BE RETAINED BY THE VASCO ROAD LANDFILL

*James Carroll*

Generator Signature

9-22-00

Date

TRANSPORTER INFORMATION

Transporter to complete this section

DTI # 2003/320  
P.O.# 09-35413

Name	DILLARD ENVIRONMENTAL SERVICES
Address	P.O. Box 579
City	BYRON, CA 94514
Phone	(925) 634-6850
Signature	John A. Mc Curry
Phone	31495428

Driver Signature

9-25-00

Date

DISPOSITION INFORMATION

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Signature of Vasco Road Landfill employee

Date

6001 North Vasco Road, Livermore - Phone: 925-447-4491 - Fax: 925-447-3086 or 925-447-4199

was del to landfill with 2003/318 to collect.

Sep. 21 2000 11:41 AM

PHONE NO. : 925-447-3086

FROM : Vasco Road Landfill



Resources for Community Development  
2131 University Avenue, Suite 224  
Berkeley, CA 94704

FACSIMILE TRANSMITTAL

DATE: 9-12-00

TO: Barney Chan \_\_\_\_\_

Ala. Co. Health \_\_\_\_\_

FAX: 337-9335 \_\_\_\_\_

FROM: Lisa Masumi Motoyama, Senior Project Manager  
510.841.4410, Extension 19  
510.548.3502 Facsimile  
Please call if any pages are not transmitted correctly.

TOTAL PAGES FOLLOWING: 4

RE: 6600 International Blvd, Oakland

As requested     For your review     For your files     For your approval

Comments:

Please find attached the last 4 pages of the well destruction report.

Thank you.

**ExxonMobil**  
**Refining and Supply Company**  
Downstream - Safety, Health & Environment  
Environmental Remediation

2300 Clayton Road, Suite 1250  
P.O. Box 4032  
Concord, CA 94524-4032  
(925) 246-8768 Telephone  
(925) 246-8798 Facsimile  
darin.l.rouse@exxon.com

CONFIDENTIAL  
PROTECTION  
00 JUL 33 PM 3:56

Darin L. Rouse  
Senior Engineer  
Environmental Remediation

#  
1068

**ExxonMobil**  
Refining & Supply

August 4, 2000

Mr. Barney Chan  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

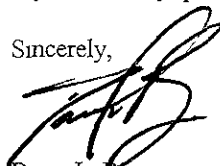
**RE: Former Exxon RAS #7-0236/6630 East 14<sup>th</sup> Street, Oakland, California.**

Dear Mr. Chan:

Attached for your review and comment is a document entitled *Soil Disposal Documentation*, dated July 27, 2000, for the above referenced site. The document was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and provides the soil disposal documentation for previous underground storage tank removal and associated activities at the subject site.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,

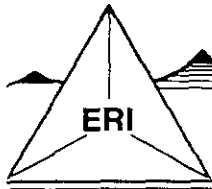


Darin L. Rouse  
Senior Engineer

Attachment: ERI's Soil Disposal Documentation, dated July 27, 2000.

cc: w/attachment  
Mr. Stephen Crawford, City of Oakland Fire Services, Hazardous Materials Management Program  
Ms. Lisa Motoyama, Resources for Community Development

w/o attachment  
Mr. James F. Chappell - Environmental Resolutions, Inc.



**ENVIRONMENTAL RESOLUTIONS, INC.**

July 27, 2000  
ERI 200914DR.L02

Mr. Darin L. Rouse  
ExxonMobil Refining and Supply  
P.O. Box 4032  
Concord, California 94524-4032

Subject: Soil Disposal Documentation for Former Exxon Service Station 7-0236,  
6630 East 14<sup>th</sup> Street, Oakland, California.

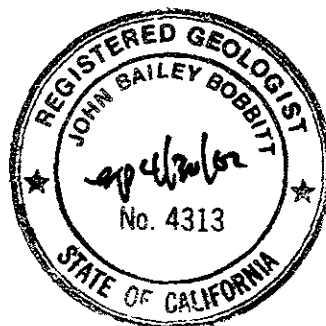
Mr. Rouse:

At the request of ExxonMobil Refining and Supply (formerly known as Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) performs environmental activities at the subject site. This letter documents the disposal of the soil stockpile from the subject site. The stockpile was generated during the removal of a used-oil underground storage tank (UST). The UST removal and associated activities are detailed in ERI's report entitled *Removal of Used-Oil Underground Storage Tank at Former Exxon Service Station 7-0236*, dated May 31, 2000.

On July 6, 2000, Dillard Trucking, Inc. (Dillard) of Byron, California under direct contract to ExxonMobil, transported approximately 100 tons of soil to Browning Ferris Industries (BFI) Landfill in Livermore, California for disposal. Soil disposal documentation provided by Dillard is attached.

Please call Mr. James F. Chappell at (415) 382-4323 with any questions regarding this project.

Sincerely,  
Environmental Resolutions, Inc.

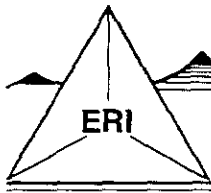


*James F. Chappell*  
James F. Chappell  
Assistant Project Manager

*John B. Bobbitt*  
John B. Bobbitt  
R.G. 4313

Attachment: Soil Disposal Documentation

cc: Mr. Stephen Crawford, City of Oakland Fire Services, Hazardous Materials  
Management Program  
Mr. Barney Chan, Alameda County Health Care Services Agency, Department of  
Environmental Health  
Ms. Lisa Motoyama, Resources for Community Development



ENVIRONMENTAL RESOLUTIONS, INC.

L. PROJECTIONS  
00:01:06  
11:06

# 1066

July 25, 2000  
ERI 200914LM.L05

Ms. Lisa Motoyama  
Resources For Community Development  
2131 University Avenue, #224  
Berkeley, California 94704

Subject: Notification of On-site Activities at Former Exxon Service Station 7-0236,  
6600 East 14<sup>th</sup> Street, Oakland, California.

Ms. Motoyama:

At the request of ExxonMobil Refining and Supply (formerly known as Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) is notifying you of the upcoming fieldwork related to the destruction of six groundwater monitoring wells (MW2 through MW6, and MW8) at the subject site. The work is tentatively scheduled for August 9, 2000.

The work will require that a drilling rig and two vehicles be on site during field activities. The locations of the groundwater monitoring wells are shown on the attached Generalized Site Plan. Soil generated during these activities will be temporarily stored on site pending disposal coordination.

Please call Mr. James F. Chappell at (415) 382-4323 with any questions regarding this project.

Sincerely,  
Environmental Resolutions, Inc.

Tom C. Culig  
Staff Geologist

James F. Chappell  
Assistant Project Manager

Attachment: Generalized Site Plan

cc: Mr. Darin L. Rouse - ExxonMobil Refining and Supply  
Mr. Barney Chan - Alameda County Health Care Services Agency - Environmental Health  
Division



0001 0000 0000

**DILLARD TRUCKING, INC. dba**  
*DILLARD ENVIRONMENTAL SERVICES*  
**P.O. Box 579 ♦ Byron, California 94514**  
**Telephone: (925) 634-6850 ♦ Facsimile: (925) 634-0874**

---

July 12, 2000

E.R.I.

**Attn:** Jim Chappell or Tom Culig

**RE:** *Exxon #7-0236/ 6630 E 14<sup>th</sup> Street ♦ Oakland, California*

Please be advised that 99.88 tons of bulk soil were removed from the above referenced site on July 6, 2000.

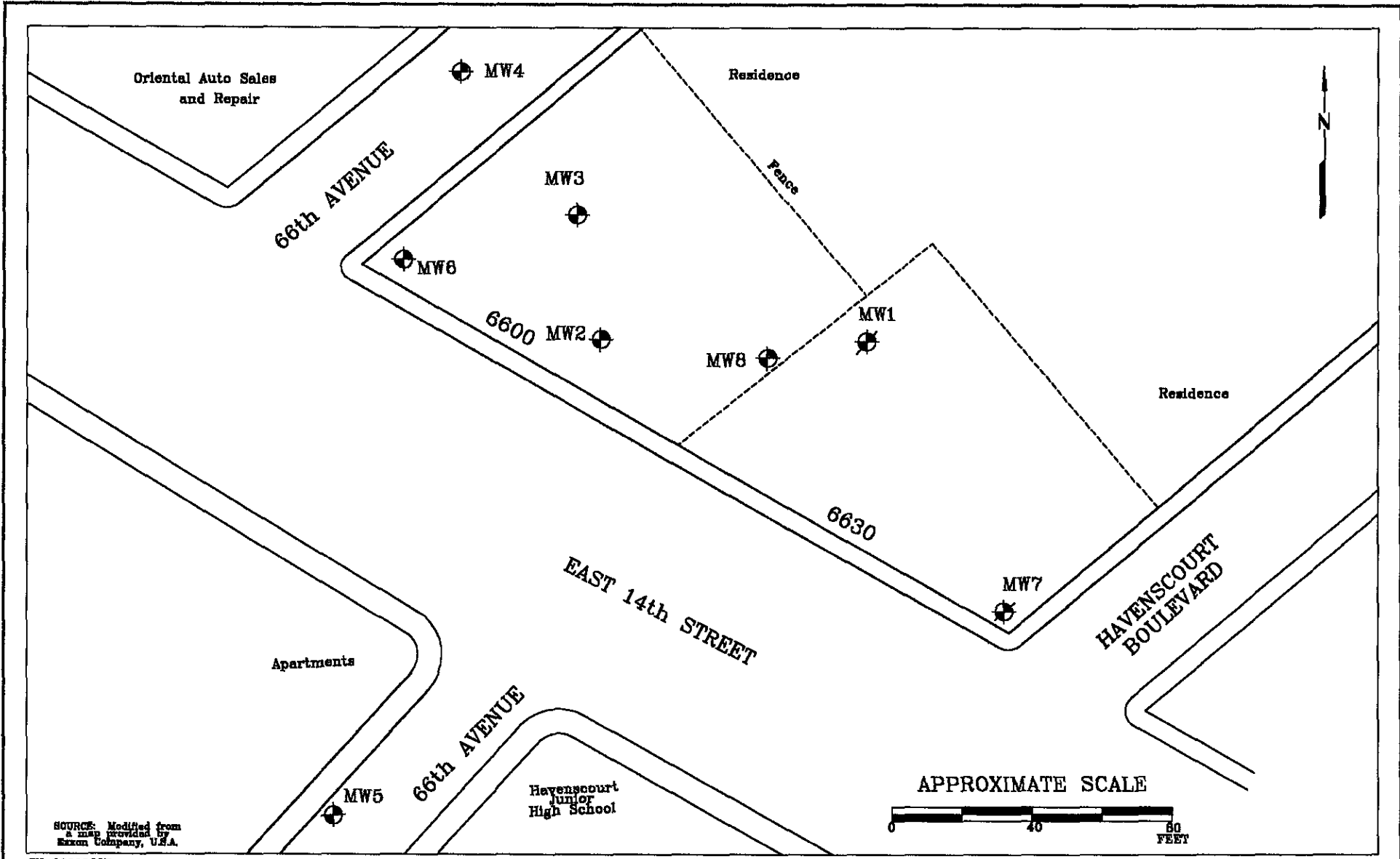
Should you have any questions, please do not hesitate to call.

Sincerely,

*Lynette Smith*  
Lynette Smith  
Customer Service Representative

LS:cvp

cc: file



SOURCE: Modified from a map provided by Exxon Company, U.S.A.

FN 2008003B



**GENERALIZED SITE PLAN**

Former  
Exxon Service Station 7-0236  
6600 East 14th Street  
Oakland, California

**EXPLANATION**

- MW5 Groundwater Monitoring Well
- MW7 Destroyed Groundwater Monitoring Well

**PROJECT NO.**

2009

**PLATE**

2

April 25, 2000

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

July 11, 2000  
StID # 1068

Mr. Darin Rouse  
Exxon-Mobil  
P.O. Box 4032  
Concord, CA 94524-4032

**Re: Closure of Monitoring Wells for 6600 E. 14<sup>th</sup> St., Oakland CA 94621**

Dear Mr. Rouse:

Our office has received concurrence from the Regional Water Quality Control Board on our recommendation for site closure of the above referenced location. This also includes the recommendation for no further action on 6630 E. 14<sup>th</sup> St. Prior to issuing the closure letter, our office requests the proper closure of six (6) existing monitoring wells installed on and off-site.

You may contact Alameda County Public Works Water Resources Section at (510) 670-5554 for specific requirements of well closure.

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

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files

Ms. L. Motoyama, RCD, 2131 University Ave., Suite 224, Berkeley, CA 94704

Mr. J. Chappel, Environmental Resolutions, Inc., 73 Digital Drive, Suite 100, Novato, CA  
94949-5791

wldrq6600E14th

LOP - CHANGE RECORD REQUEST FORM

printed:  
06/21/2000

Mark Out What Needs Changing and Hand to LOP Data Entry  
(Name/Address changes go to Annual Programs Data Entry)

Insp:

AGENCY # : 10000      SOURCE OF FUNDS: F      SUBSTANCE: 8006619  
 StID : 1068      LOC: -0-  
 SITE NAME: Exxon # 7-0236      DATE REPORTED : 04/01/1991  
 ADDRESS : 6600 E 14th St      DATE CONFIRMED: 04/01/1991  
 CITY/ZIP : Oakland      94621      MULTIPLE RPs : Y

SITE STATUS

CASE TYPE: O CONTRACT STATUS: 7      PRIOR CODE:2B3      EMERGENCY RESP: -0-  
 RP SEARCH: S      DATE COMPLETED: 03/27/1992  
 PRELIMINARY ASMNT: U      DATE UNDERWAY: 04/25/1991      DATE COMPLETED: -0-  
 REM INVESTIGATION: -      DATE UNDERWAY: -0-      DATE COMPLETED: -0-  
 REMEDIAL ACTION: -      DATE UNDERWAY: -0-      DATE COMPLETED: -0-  
 POST REMED ACT MON:-      DATE UNDERWAY: -0-      DATE COMPLETED: -0-

ENFORCEMENT ACTION TYPE: 1      DATE ENFORCEMENT ACTION TAKEN: 03/27/1992  
 LUFT FIELD MANUAL CONSID: 3HSCAWG  
 CASE CLOSED: -      DATE CASE CLOSED: -0-  
 DATE EXCAVATION STARTED : *3-20-96*      REMEDIAL ACTIONS TAKEN: NT

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: George Gasper Et Al  
 COMPANY NAME: C/o Vigo N. Smith  
 ADDRESS: 3939 Walnut Avenue #264  
 CITY/STATE: Carmichael, Ca 95608-2197

RP#2-CONTACT NAME: Marla Guensler  
 COMPANY NAME: Exxon Company Usa # 7-0236  
 ADDRESS: P. O. Box 4032  
 CITY/STATE: Concord, Ca 94524

INSPECTOR VERIFICATION:

NAME \_\_\_\_\_ SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

DATA ENTRY INPUT:

Name/Address Changes Only			Case Progress Changes	
ANPPGMS	LOP	DATE	LOP	DATE
_____	_____	_____	_____	_____

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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

June 13, 2000

Mr. Steve Craford  
City of Oakland Fire Services  
1605 MLK Jr. Drive  
Oakland CA 94612

**Re: Underground Tank Closure Report for 6630 E. 14<sup>th</sup> St., Oakland CA 94621**

Dear Mr. Craford:

This memo serves to notify you that I have received and reviewed the Exxonmobil report for the closure of the waste oil tank at 6630 E. 14<sup>th</sup> St. Assuming you concur, the County has no further requirements for this parcel. Our office is reviewing the underground tank investigation at 6600 E. 14<sup>th</sup> St. for recommendation for site closure. Since Resources for Community Development (RCD) plans on developing both sites, it would be nice if the City and County could expedite the closure of these sites prior to the start of their end of July development.

If you have any questions, give me a call at (510) 567-6765.

Sincerely,

Barney Chan  
Hazardous Materials Specialist

C: files

Copy to S. Craford by fax only.

BC

Senior LOP Case File Audit

Date 6-9-00 STID 1068 Audit Time Period 1/13 - 3/24/00

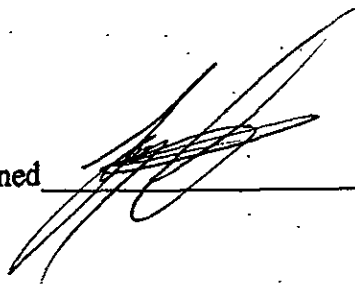
# of daily entries 20 Quarter hrs. this case 29.3

Dailies must be attached for this period

Narrative summary of case record compared with each daily entry. In daily order:

- 1. 1-13-00 O.K.
- 2. 2-7-00 O.K.
- 3. 2-7-00 O.K.
- 4. 2-9-00 O.K.
- 5. 2-15-00 O.K.
- 6. 2-17-00 O.K.
- 7. 2-18-00 O.K.
- 8. 2-22-00 O.K.
- 9. 2-23-00 O.K.
- 10. 2-24-00 O.K.
- 11. 2-28-00 O.K.
- 12. 2-28-00 O.K.
- 13. 2-29-00 O.K.
- 14. 3-2-00 O.K.
- 15. 3-6-00 O.K.
- 16. 3-20-00 O.K.
- 17. 3-20-00 O.K.
- 18. 3-22-00 O.K.
- 19. 3-23-00 O.K.
- 20. 3-24-00 O.K.
- 21. —
- 22. —
- 23. —
- 24. —

Rating: High Average Poor

Auditor Print name Carry Seto signed 

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

June 9, 2000  
StID # 1068

Mr. Darin Rouse  
ExxonMobil  
P.O. Box 4032  
Concord, CA 94524-4032

**Re: Groundwater Monitoring at 6600 E. 14<sup>th</sup> St., Oakland CA 94621**

Dear Mr. Rouse:

This letter confirms that groundwater monitoring at the above referenced site should be suspended pending our office's review of the site for case closure. Assuming concurrence of case closure internally and by the SFRWQCB, well closure will be requested prior to final site closure.

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

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files  
Mr. J. Chappel, ERI (by e mail)  
Suspmon6600

**EXXON** COMPANY, U.S.A.

ENVIRONMENTAL  
PROTECTION

00 JUN -8 AM 8:41

EXXONMOBIL • REFINING AND SUPPLY  
Safety, Health and Environment  
Environmental Engineering

P.O. Box 4032 • Concord, CA 94524-4032

DARIN L. ROUSE  
Senior Engineer

(925) 246-8768  
(925) 246-8798 Facsimile  
darin.l.rouse@exxon.com

June 9, 2000

Mr. Barney Chan  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

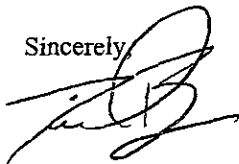
**RE: Former Exxon RAS #7-0236/6600 East 14<sup>th</sup> Street, Oakland, California.**

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled *Removal of Used-Oil Underground Storage Tank*, dated May 31, 2000, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the removal of one used-oil underground storage tank and overexcavation activities at the subject site.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,



Darin L. Rouse  
Senior Engineer

Attachment: ERI's Removal of Used-Oil Underground Storage Tank, dated May 31, 2000.

cc: w/attachment  
Mr. Stephen Hill - California Regional Water Quality Control Board-San Francisco Bay Region  
Mr. Steve Crawford - City of Oakland Fire Services-Hazardous Materials Management Program  
Ms. Lisa Motoyama - Resources for Community Development  
Mr. Ramon Estrada - ExxonMobil Refining and Supply

w/o attachment  
Mr. James F. Chappell - Environmental Resolutions, Inc.



HAZARDOUS WASTE GENERATOR INSPECTION REPORT

STID #: 1068 FACILITY NAME: 0630 514th St. PG.      OF     

SUPPLEMENTAL FORM

Observe the removal of 1 ~ 300 gal  
Steel UST.

- Exxon removing UST
- OFD - S. Crawford present
- Beth - Clayton also present rep. RCD

Tank was observed w/o any holes / leaks  
was full of fluid pumped prior day.

Sples : original - directly beneath UST @ ~ 8'  
overexcavated to ~ 9' & took another sample  
Pit ~ 6 x 8 x 9' - spools ~ 5 cy

PRINT NAME: \_\_\_\_\_ INSPECTED BY: B CHAN  
SIGNATURE: \_\_\_\_\_ DATE: 4/7/00

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES  
ENVIRONMENTAL PROTECTION  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
(510) 567-6700  
(510) 337-9432

February 23, 2000  
StID # 1068

Exxon Company, USA  
Mr. Darin Rouse  
P.O. Box 4032  
Concord CA 94524-4032

**Re: Former Exxon Station, 6600 E. 14<sup>th</sup> St., Oakland CA 94621**

Dear Mr. Rouse:

This letter serves to update you on the status of our office's evaluation of Exxon's request for site closure of the above referenced site. It appears that our office is missing a critical technical report necessary to continue our evaluation. This report is, according to Mr. Chappel of ERI, a 1998 summary of environmental activities including the following:

- The results of Exxon's geophysical investigation in search of additional USTs.
- The results of Exxon's excavation of the areas identified in the geophysical investigation.
- The results of the December 1997 excavation of soil from the former dispenser area
- The results from the drilling of soil borings, SB1 and SB2 and
- The results of the April 1998 excavation of the area between the dispensers and SB1 and SB2.

Please provide this report as soon as possible so our office can complete our evaluation. In addition, our office was informed that an underground tank was discovered on the 6630 E. 14<sup>th</sup> St. property. Although site closure is being considered for 6600 E. 14<sup>th</sup> St. only, wasn't the geophysical investigation performed by Exxon in search of additional USTs done on 6630 E. 14<sup>th</sup> St. ? This tank should be removed under the City of Oakland oversight.

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

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files

Mr. J. Chappel, ERI, 73 Digital Drive, Suite 100, Novato, CA 94949-5791  
Ms. L. Motoyama, RCD, 2131 University Ave., Suite 224, Berkeley, CA 94704

Rep6600E14

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



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

February 7, 2000  
STID # 1068

Mr. Darin Rouse  
Exxon Company, USA  
P.O. Box 4032  
Concord CA 94524-4032

**RE: Former Exxon RAS# 7-0236, 6600 E. 14<sup>th</sup> St., Oakland CA 94621**

**LANDOWNER NOTIFICATION AND PARTICIPATION REQUIREMENTS**

Dear Mr. Rouse:

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, Exxon Co., USA c/o yourself, has 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. In addition, our office is considering your request for site closure. Please also complete and submit a "notice of proposed action submitted to local agency" form. You may use sample letter 3, enclosed.

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: 6600 E.14th St., Oakland CA 94621  
February 7, 2000  
Page 2 of 2

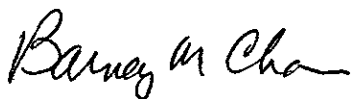
In accordance with Section 25297.15(a) of Ch. 6.7 of the Health & Safety Code, you must certify to the local agency that all current record owners of fee title to the site have been informed of the proposed action before the local agency may do any of the following:

- 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) 567-6765 should you have any questions about the content of this letter.

Sincerely,



Barney M. Chan  
Hazardous Materials Specialist

Attachments

cc: Chuck Headlee, RWQCB

**EXXON** COMPANY, U.S.A.

ENVIRONMENTAL  
PROTECTION

00 JAN 12 PM 3: 52

P.O. BOX 4032 • CONCORD, CA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

DARIN L. ROUSE  
SENIOR ENGINEER

(925) 246-8768  
(925) 246-8798 FAX

*write up for done.*

December 17, 1999

# 1068

Mr. Barney Chan  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

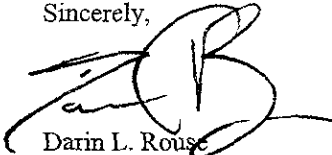
**RE: Former Exxon RAS #7-0236/6600 East 14<sup>th</sup> Street, Oakland, California.**

Dear Mr. Chan:

Attached for your review and comment is a report entitled *Request for Case Closure*, dated December 13, 1999, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and incorporates the results of an off-site investigation and previous investigations at the subject site.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,

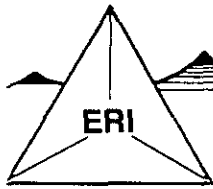


Darin L. Rouse  
Senior Engineer

Attachment ERI's Request for Case Closure, dated December 13, 1999.

cc: w/ attachment  
Mr. Stephen Hill - California Regional Water Quality Control Board-San Francisco Bay Region

w/o attachment  
Mr. James F. Chappell - Environmental Resolutions, Inc.  
Ms. Kathy Simonelli - Geologic Services Corporation



**ENVIRONMENTAL RESOLUTIONS, INC.**

---

---

December 13, 1999  
ERI 200903.R03

Mr. Darin L. Rouse  
Exxon Company, U.S.A.  
P.O. Box 4032  
Concord, California 94524-4032

Subject: Executive Summary of Request for Case Closure for Former Exxon Service Station  
7-0236, 6600 East 14th Street, Oakland, California.

Mr. Rouse:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) is submitting this request for case closure for the subject site. The report incorporates the results of an off-site investigation and previous investigations for this site.

Based on the results of this investigation the methyl tertiary butyl ether (MTBE) plume is stable, delineated in all directions, and is diminishing. Based on the results of the risk-based corrective action analysis (RBCA), the site-specific target limits for this site are not exceeded.

ERI recommends case closure and the destruction of groundwater monitoring wells MW2 through MW6, and MW8.

ERI recommends that signed copies of the request for case closure be forwarded to:

Mr. Barney Chan  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

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

Please call me at (415) 382-4323 with any questions regarding this report.

Sincerely,  
Environmental Resolutions, Inc.

A handwritten signature in black ink, appearing to read "James F. Chappell". The signature is written in a cursive, slightly slanted style.

James F. Chappell  
Senior Staff Scientist

Enclosure: Request for Case Closure

HAZARDOUS WASTE GENERATOR INSPECTION REPORT

STID #: 1068 FACILITY NAME: FORMER EXXON - 6600 E 14th St 94621 PG. \_\_\_ OF \_\_\_

SUPPLEMENTAL FORM

Observe the advancement of hand auger borings  
First boring was on the south side of E14th.  
3 boreholes necessary to get pass refusal. Boring  
advanced to ~14' bgs where gw encountered - J. Shappel  
of FRI project mgr. - other borings located in  
median & just inside property boundary - downgradient  
of MW2. The furthest downgradient boring is ~50' from  
MW-5.

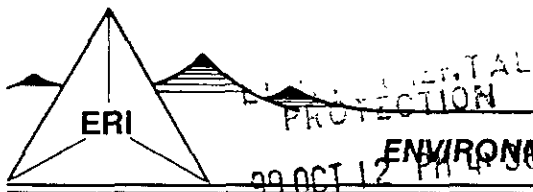
PRINT NAME:

INSPECTED BY: Bchan

SIGNATURE:

DATE: 10/13/99





ENVIRONMENTAL RESOLUTIONS, INC.

99 OCT 12 PM 4:30

October 7, 1999  
ERI 200903BC.106  
VIA FACSIMILE AND U.S. MAIL

Mr. Barney Chan  
Alameda County Environmental Health Services  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

Subject: Notification of Environmental Activities at Former Exxon Service Station 7-0236,  
6600 East 14<sup>th</sup> Street, Oakland, California.

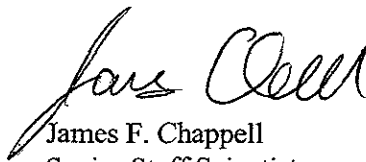
Mr. Chan:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) is notifying you of the upcoming fieldwork related to the off-site investigation at the subject site. The work is scheduled to occur on October 13, 1999.

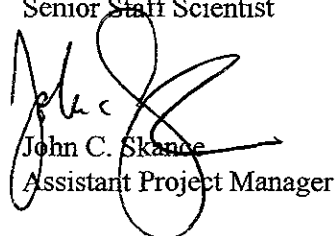
Work will include hand augering three soil borings and collecting groundwater grab samples from the borings and collecting samples from groundwater monitoring well MW2. Work will be performed in accordance with the Work Plan and your Work Plan approval letter entitled **Re: Revised Borings at Former Exxon Service Station, 6600 E. 14<sup>th</sup> St., Oakland CA 94621**, dated September 21, 1999.

Please call Mr. James F. Chappell at (415) 382-4323 with any questions regarding the work.

Sincerely,  
Environmental Resolutions, Inc.



James F. Chappell  
Senior Staff Scientist



John C. Skance  
Assistant Project Manager

cc: Mr. Darin L. Rouse - Exxon Company, U.S.A.

**EXXON** COMPANY, U.S.A.

ENVIRONMENTAL  
PROTECTION

99 OCT -8 PM 2: 28

P.O. BOX 4032 • CONCORD, CA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

DARIN L. ROUSE  
SENIOR ENGINEER

(925) 246-8768  
(925) 246-8798 FAX

# 1068

October 5, 1999

Mr. Barney Chan  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

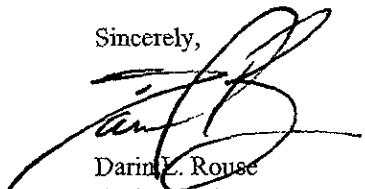
**RE: Former Exxon RAS #7-0236/6600 East 14<sup>th</sup> Street, Oakland, California.**

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring Report, Third Quarter 1999*, dated September 30, 1999, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the quarterly groundwater monitoring and sampling activities at the subject site. ERI also collected groundwater samples from the wells on September 3, 1999, as requested by Exxon, and submitted them for dissolved oxygen analysis. Results of laboratory analysis are presented in Table 1.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,



Darin L. Rouse  
Senior Engineer

Attachment ERI's Quarterly Groundwater Monitoring Report, Third Quarter 1999, dated September 30, 1999.

cc: w/ attachment  
Mr. Stephen Hill - California Regional Water Quality Control Board-San Francisco Bay Region

w/o attachment  
Mr. John C. Skance - Environmental Resolutions, Inc.  
Ms. Kathy Simonelli - Geologic Services Corporation

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)

September 21, 1999  
StID # 1068

Mr. Darin Rouse  
Exxon Company, USA  
P.O. Box 4032  
Concord, CA 94524-4032

**Re: Revised Borings at Former Exxon Station, 6600 E. 14<sup>th</sup> St., Oakland CA 94621**

Dear Mr. Rouse:

This letter acknowledges the receipt of the Environmental Resolution Inc. (ERI) September 15, 1999 letter to the California Department of Transportation notifying them of the revised location of the three borings proposed at this site. As previously discussed with ERI, the locations of these borings will be changed to accommodate Cal Trans requirements. It is believed that no compromise in data will result.

Please be reminded and adhere to these prior requirements requested for the site:

- Please install oxygen releasing compound socks into monitoring well MW-2 and take dissolved oxygen readings from this well after the sock has been removed and the well purged.
- Please analyze the groundwater samples from the proposed borings for TPHg, BTEX and MTBE. MTBE should be confirmed using EPA Method 8240 or 8260.
- Please notify our office at least two working days prior to the proposed work.

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

Sincerely,

Barney M. Chan  
Hazardous Materials Specialist

c: B. Chan, files

Ms. L. Motoyama, RCD, 2131 University Ave., Suite 224, Berkeley, CA 94704  
Mr. J. Skance, ERI, 73 Digital Drive, Suite 100, Novato, CA 94949-5791

Borings6600E14

**EXXON** COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENGINEER  
(925) 246-8776  
(925) 246-8798 FAX

JUN 30 1999

Mr. Barney Chan  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

**RE: Former Exxon RAS #7-0236/6600 East 14<sup>th</sup> Street, Oakland, California.**

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled *Sensitive Receptor Survey/Underground Utility Survey Letter Report and Work Plan Addendum for Off-site Investigation*, dated June 23, 1999, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the sensitive receptor survey, the results of the underground utility survey and proposes additional borings adjacent to the subject site.

If you have any questions or comments, please contact me at (925) 246-8776.

Sincerely,

Marla D. Guensler  
Senior Engineer

MDG/tjm

Attachment Sensitive Receptor Survey/Underground Utility Survey Letter Report and Work Plan Addendum for Off-site Investigation, dated June 23, 1999.

cc: w/ attachment  
Mr. Stephen Hill - California Regional Water Quality Control Board-San Francisco Bay Region

w/o attachment  
Ms. Tracy A. Faulkner - Environmental Resolutions, Inc.

ENVIRONMENTAL  
PROTECTION  
99 JUL -1 PM 2:12

#  
1068

new proj mgr from ERI  
YI-382-5996  
John Scans  
E14<sup>th</sup> + E12<sup>th</sup> St  
replaces  
T. Scaw  
ner.



# EXXON COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENGINEER  
(925) 246-8776  
(925) 246-8798 FAX

#  
068

**JUN 24 1999**

Mr. Barney Chan  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

**RE: Former Exxon RAS #7-0236/6600 East 14<sup>th</sup> Street, Oakland, California.**

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring Report, Second Quarter 1999*, dated June 3, 1999, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the quarterly groundwater monitoring and sampling activities at the subject site.

If you have any questions or comments, please contact me at (925) 246-8776.

Sincerely,



Marla D. Guensler  
Senior Engineer

MDG/tjm

Attachment ERI's Quarterly Groundwater Monitoring Report, Second Quarter 1999, dated June 3, 1999.

cc: w/ attachment  
Mr. Stephen Hill - California Regional Water Quality Control Board-San Francisco Bay Region

w/o attachment  
Ms. Tracy A. Faulkner - Environmental Resolutions, Inc.

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



*Example*

May 26, 1999  
StID # 1068

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

Ms. Lisa Motoyama  
Resources for Community Development  
2131 University Ave., Suite 224  
Berkeley, CA 94704

**RE: International Boulevard Family Housing Initiative  
6600 and 6630 International Boulevard, Oakland CA 94621**

Dear Ms. Motoyama:

It is our understanding that Resources for Community Development and East Oakland Community Development Corporation are proposing to develop affordable housing at the above-referenced location. Upon this location was formerly an Exxon service station. The station was closed, the underground storage tanks were removed and the majority of contaminated soil removed in December 1996. The groundwater at the site has since been monitored through the numerous on- and off-site wells. These results and those from residual soil samples would not pose a human health risk to workers or the future residents of the planned housing on the site.

Formal closure of the site will require the performance of a conduit study and the delineation of the MTBE (methyl tertiary butyl ether) plume. Our office is designated by the Water Board as the local agency to oversee fuel leaks sites from underground tanks in the City of Oakland. Our office recommends such sites for closure to the Water Board, who has ultimate closure authority. Currently, Alameda County is working with Exxon to achieve closure. However, there is nothing indicated by the condition of the site that would prevent the development of housing upon it.

If you should have any questions regarding this matter, please call me at (510) 567-6765.

Sincerely,

Barney Chan  
Hazardous Materials Specialist

C: B. Chan, files

Tax Credit Allocation Committee, 915 Capitol Mall, Room 485, Sacramento, CA  
94814

Ms. M. Guensler, Exxon Co. USA, P.O. Box 4032, Concord CA 94524-4032



Resources for Community Development  
2131 University Avenue, Suite 214  
Berkeley, CA 94704

# Facsimile Cover Sheet

To: Berney Chan  
 Company: Alameda Co. - Env. Health Svcs.  
 Phone: \_\_\_\_\_  
 Fax: 337-9335  
 From: Lisa Masumi Motoyama, Project Manager  
 Date: 5-18-99  
 Total pages following: 2

FAX NUMBER: (510) 588-3502 <sup>19</sup>  
 PHONE NUMBER: (510) 841-4110, extension <sup>20</sup>  
 Please call if any pages are not transmitted clearly.

Project: International Boulevard Family Housing

Message: Please find attached our request for a letter regarding 6600 International Blvd. The original will follow by mail.

Thank you.

Resources  
for  
Community  
Development

2131 University Avenue  
Suite 224  
Berkeley, CA 94704  
510 841-4410  
fax 510 548-3502

May 18, 1999

Barney Chan  
Alameda County Environmental Health Services  
Environmental Protection Division  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

RE: 6600 and 6630 International Boulevard, Oakland

Dear Barney:

We are writing to request a letter regarding the process for closure of the 6600 and 6630 International Boulevard site (the former Exxon station). For our application for Low Income Housing Tax Credits, we are required to provide the environmental status of our proposed housing development site. This application is due July .

Please find attached with this letter, a sample letter for your use. Please make any changes you may require. The original letter should be returned to us for our application. If you should have any questions, please call me at (510)841-4410, extension 20.

Thank you for your time and attention.

Very truly yours,



Lisa Masumi Motoyama  
Project Manager





May 18, 1999

2131 University Avenue  
Suite 224  
Berkeley, CA 94704  
510 841-4410  
fax 510 548-3502

Marla Guensler  
Exxon Company, USA  
P.O. Box 4032  
Concord, CA 94542-4032

RE: Exxon RAS #7-0236  
6600 International Boulevard, Oakland, CA 94621

Dear Ms. Guensler:

We would like to know the status of your steps towards closure of the above-referenced site. Per our conversation with Barney Chan of the Alameda County Health Care Services Agency, he stated that you are proposing various means of gathering information to close the site including a conduit study and a fate and transport model. How soon will these tests be conducted? We understand that various other proposals have been made but never carried out.

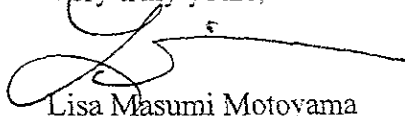
We must have a clear time line and course of action to closing for our final funding application. Over 60% of the project funding has been committed. Our proposed project for the site, 25 units of affordable family housing, has received funding commitments from the City of Oakland, the County of Alameda, the Federal Home Loan Bank, Bank of America, and Bay View Bank.

**If these tests towards closure are not conducted as soon as possible, our project will be in jeopardy.**

We have put a great deal of effort in bringing our project to this point. The uncertainty and unresolved nature of the toxics issue at the site will prevent the final commitment of our funds. This is an important project for the revitalization of this neglected portion of East Oakland, and has received a great deal of community support. Please do not disappoint us and the residents of the community surrounding the 6600 International Boulevard site.

Please call me at your earliest convenience at (510)841-4410, extension 20. I look forward to hearing from you. Thank you for your time and attention.

Very truly yours,



Lisa Masumi Motoyama  
Project Manager

99 MAY 19 PM 4: 53  
ENVIRONMENTAL  
PROTECTION



Cc: Vigo Smith, Property Owner  
MWM Properties, Property Owner  
Larry Hynson, East Oakland Community Development Corporation  
Barney Chan, Alameda County

May 18, 1999

Barney Chan  
Alameda County Environmental Health Services  
Environmental Protection Division  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577

RE: 6600 and 6630 International Boulevard, Oakland

Dear Barney:

We are writing to request a letter regarding the process for closure of the 6600 and 6630 International Boulevard site (the former Exxon station). For our application for Low Income Housing Tax Credits, we are required to provide the environmental status of our proposed housing development site. This application is due July 1.

Please find attached with this letter, a sample letter for your use. Please make any changes you may require. The original letter should be returned to us for our application. If you should have any questions, please call me at (510)841-4410, extension 20.

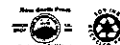
Thank you for your time and attention.

Very truly yours,



Lisa Masumi Motoyama  
Project Manager

99 MAY 19 PM 4: 49  
ENVIRONMENTAL  
PROTECTION



[Alameda County Environmental Health Services letterhead]

[Date]

Tax Credit Allocation Committee  
915 Capitol Mall, Room 485  
Sacramento, CA 94814

RE: International Boulevard Family Housing Initiative  
6600 and 6630 International Boulevard

Dear Madam or Sir:

It is our understanding that Resources for Community Development and East Oakland Community Development Corporation are proposing to develop affordable housing at the above-referenced site. The site was formerly an Exxon service station. The station was closed, the underground storage tanks were removed and the surrounding contaminated soil removed in December 1996. The site has since been monitored with wells. Test results from the monitoring wells indicate that there is no public health risk posed by building housing on the site.

Formal closure of the site will require the following: [please list]. [Please describe the County's role in the closure process]. Currently, Alameda County is working with Exxon towards closure. However, there is nothing indicated by the condition of the site that would prevent the development of housing upon it.

If you should have any questions regarding this matter, please call me at (510)567-6765.

Sincerely,

Barney Chan  
[Title]



# State Water Resources Control Board



**Winston H. Hickox**  
Secretary for  
Environmental  
Protection

**Division of Clean Water Programs**  
2014 T Street • Sacramento, California 95814 • (916) 227-4539  
Mailing Address: P.O. Box 944212 • Sacramento, California • 94244-2120  
FAX (916) 227-4530 • Internet Address: <http://www.swrcb.ca.gov/~cwphome/ustcf>

**Gray Davis**  
Governor

STID 1068  
BC

APR 14 1999

Candy G. Woolford  
Exxon Company Usa  
P O Box 951139  
Dallas, TX 75395-1139

UNDERGROUND STORAGE TANK CLEANUP FUND, CLAIM NO. 005400, FOR SITE ADDRESS:  
6630 14TH ST E & 66TH AVE, OAKLAND

The State Water Resources Control Board (State Board) is able to issue, pursuant to applicable regulations, the enclosed Letter of Commitment (LOC) in an amount not to exceed \$239,000. This LOC is based upon our review of the corrective action costs you reported to have incurred to date. The LOC may be modified by the State Board.

It is very important that you read the terms and conditions listed in the enclosed LOC. Claims filed with the Underground Storage Tank Cleanup Fund far exceed the funding available and it is very important that you make use of the funding that has been committed to your cleanup in a timely manner.

You are reminded that you must comply with all regulatory agency time schedules and requirements and you must obtain three bids for any required corrective action. Only corrective action costs *required* by the regulatory agency to protect human health, safety and the environment can be claimed for reimbursement. **Unless waived in writing, you are required to obtain preapproval of costs for all future corrective action work (form enclosed).** If you have any questions on obtaining preapproval of your costs or the three bid requirement, please call Mark Owens, our Technical Reviewer assigned to claims in your Region, at (916) 227-7883. Failure to obtain preapproval of your future costs may result in the costs not being reimbursed.

The following documents needed to submit your reimbursement request are enclosed:

- "Reimbursement Request Instructions" package. **Retain this package for future reimbursement requests.** These instructions must be followed when seeking reimbursement for corrective action costs incurred after January 1, 1988. Included in the instruction package are samples of completed reimbursement request forms and spreadsheets.
- "Bid Summary Sheet" to list information on bids received which **must be completed and returned.**
- "Reimbursement Request" forms which you **must use to request reimbursement of costs incurred.**
- "Spreadsheet" forms which you **must use in conjunction with your reimbursement request.**

RECEIVED  
APR 16 PM 1:10  
ENVIRONMENTAL  
PROTECTION

**THIS IS IMPORTANT TO YOU, PLEASE NOTE:**

You have 90 calendar days from the date of this letter to submit your first reimbursement request for incurred corrective action costs. **NO EXTENSIONS CAN BE GRANTED.** If you fail to do so, your LOC funds will automatically be reduced to zero (deobligated). Once this occurs, any future funds for this site are subject to availability when you submit your first reimbursement request. We continuously review the status of all active claims. You must continue to remain in compliance and submit a reimbursement request every 6 months. Failure to do so will result in the Fund taking steps to withdraw your LOC.

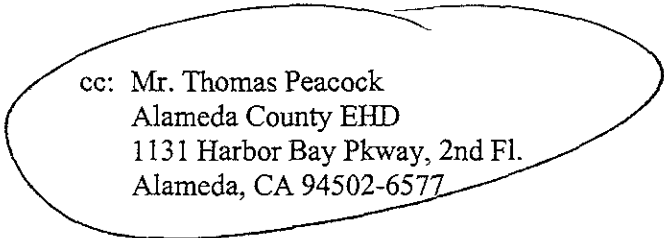
If you have any questions regarding the enclosed documents, please contact Anna Torres at (916) 227-4388.

Sincerely,



*for* Dave Deaner, Manager  
UST Cleanup Fund Program

Enclosures



cc: Mr. Thomas Peacock  
Alameda County EHD  
1131 Harbor Bay Pkway, 2nd Fl.  
Alameda, CA 94502-6577

4/22/99

T. Faulkner, P. Petro  
+ M. Guensler

#245

2200 E 12<sup>th</sup> St 94606

- elevated MTBE
- response to my 2/24/99 letter?
- will consider pumping from wells & from UST pit (if exists)

- 
- will perform conduit study
  - \* prepared for long term monitoring
  - will confirm no on going leak in UST system

# 1068

6600 E 14<sup>th</sup> St - 21

- clarify method for D.O. measurement. Not going to use D.O.
- best - purge & dump hole field measurement Ridge
- \* going to do a rose gradient diagram
- really need offset borings + gw sampling
- need an explanation of where MTBE is going.

will do conduit study 1<sup>st</sup> & then propose a row of hydropanches along south side of E 14<sup>th</sup>.

\* look at transmissibility from pump test determine where hydropanches are best located

**Chan, Barney, Public Health, EH**

**From:** ResComDev@aol.com [SMTP:ResComDev@aol.com]  
**Sent:** Tuesday, May 18, 1999 4:47 PM  
**To:** bchan@co.alameda.ca.us  
**Subject:** 6600 International Boulevard, Oakland, CA

Please find attached the sample letter per our conversation today. If you should have any problems with the document, please call me at (510)841-4410, extension 20. Thank you for your assistance.

Lisa Motoyama



CHANSUP2.DOC

Project Manager, RCD



1999, 02-25 14:10  
 510 337 9335  
 ALAMEDA CO EHS HAZ-OPS

COM No.	REMOTE STATION	START TIME	DURATION	PAGES	RESULT	USER ID	REMARKS
120	510548 3502	02-25 14:09	01' 32	03/03	OK		

7499402045

ALAMEDA COUNTY  
**HEALTH CARE SERVICES**

AGENCY

DAVID J. KEARS, Agency Director



February 22, 1999  
 StID # 1068

Ms. Marla Guensler  
 Exxon Company, USA  
 P.O. Box 4032  
 Concord, CA 94524-4032

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

Re: Work Plan for Former Exxon Station 7-0236, 6600 E. 14<sup>th</sup> St., Oakland CA 94621

Dear Ms. Guensler:

Our office has received and reviewed the February 18, 1999 Work Plan for Utility Survey, Sensitive Receptor Survey and Baseline Risk Assessment for the above referenced site as prepared by Environmental Resolutions, Inc. (ERI). This work plan is in response to my January 7, 1999 letter and follows my November 19, 1998 meeting with your consultant.

In order to meet the conditions for site closure, additional tasks were recommended during the meeting and this work plan resulted. The presence of elevated MTBE at the site presented the major obstacle preventing closure. ERI, therefore, proposes in this work plan, to perform a utility and sensitive receptor survey and a baseline risk assessment. The baseline risk assessment will include a fate and transport estimate for the potential extent of migration of the groundwater contaminants. Off-site borings are not proposed at this time, though discussed in our prior meeting. Our office approves this work plan, however, we also have the additional requirements:

- As mentioned previously in my 1/7/99 letter, your consultant should investigate the inconsistent dissolved oxygen values reported in groundwater samples.
- The bio-remediation parameters; oxidation-reduction potential, nitrate, sulfate, ferrous iron, and alkalinity should be run on monitoring wells MW3, MW2 and MW5.
- Oxygen releasing compound socks should be added to MW2, at a minimum.
- MTBE should be confirmed in MW2 using EPA Method 8240 or 8260.

Hopefully, these requirements were done in the recent 1/15/99, monitoring event. If not, please see that they are in all future events. You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Post-It™ brand fax transmittal

[Alameda County Environmental Health Services letterhead]

[Date]

Tax Credit Allocation Committee  
915 Capitol Mall, Room 48  
Sacramento, CA 94814

RE: International Boulevard Family Housing Initiative  
6600 and 6630 International Boulevard

Dear Madam or Sir:

It is our understanding that Resources for Community Development and East Oakland Community Development Corporation are proposing to develop affordable housing at the above-referenced site. The site was formerly an Exxon service station. The station was closed, the underground storage tanks were removed and the surrounding contaminated soil removed in December 1996. The site has since been monitored with wells. Test results from the monitoring wells indicate that there is no public health risk posed by <sup>workers</sup> to ~~contractors~~ building housing on the site, *nor to future residents (from groundwater) contamination.*

Formal closure of the site will require the following: ~~Y~~[please list]. [Please describe the County's role in the closure process]. Currently, Alameda County is working with Exxon towards closure. However, there is nothing indicated by the condition of the site that would prevent the development of housing upon it.

If you should have any questions regarding this matter, please call me at (510)567-6765.

Sincerely,

Barney Chan  
[Title]

- \* performing a conduit survey
- \* delineating the extent of the petroleum and MTBE contamination in SW.

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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

November 5, 1998  
StID # 1068

Ms. Marla Guensler  
Exxon Company, USA  
P.O. Box 4032  
Concord CA 94524-4032

Re: Exxon RAS # 7-0236, 6600 E. 14<sup>th</sup> St., Oakland CA 94621

Dear Ms. Guensler:

This letter comments on the recent third quarter 1998 groundwater monitoring report for the above site and requests your comment on further recommendations for the site.

Historical analytical data from soil and groundwater sampling indicates a localized petroleum plume down-gradient of the former underground storage tanks. Monitoring well MW2, the well immediately down-gradient of the former tanks, has consistently exhibited high dissolved TPHd, TPHg, BTEX and MTBE. It appears that site closure as a low risk groundwater case would require a decrease in petroleum hydrocarbons within this well along with the other low risk case requirements.

One method of remediation Exxon has used to the increase of dissolved oxygen in groundwater is the addition of ORC socks into wells. The monitoring report states that ORC is currently being introduced into MW6. Is ORC in any other wells? I have examined the dissolved oxygen (DO) values stated in the monitoring reports and have some concerns as to their accuracy. The DO in MW2, the highest impacted well, has been lower than the other wells as would be expected during aerobic bio-degradation. However, I have also noticed extreme variability in the DO values on the same well from one month to the next. For instance in MW3, from 4/97 to 5/97, the DO value went from 18.73 to 6.76 ppm. This is a dramatic change and additionally, I was not aware that DO, even under saturated conditions, could exceed 13 ppm. Later in MW3, from 4/98 to 5/98, the DO value went from 9.4 to 0.22. This seems a great difference in concentration which occurred over a short period of time. I have spoke with your consultant, ERI and stated my concern. Please attempt to clarify this question.

To further document the existence of natural bio-remediation, please include these additional indicator parameters on your future monitoring events; oxidation-reduction potential, nitrate, sulfate, ferrous iron and alkalinity. Your monitoring reports should also include an evaluation of the results of these bio-indicator parameters. Please consider the addition of ORC to MW2, at a minimum, due to the continual high concentrations detected in this well.

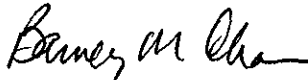
Ms. Marla Guensler  
6600 E. 14<sup>th</sup> St., Oakland CA 94621  
StID # 1068  
November 5, 1998  
Page 2.

Because of the elevated MTBE found in MW2, our office will require additional investigation prior to considering closure. Although the down-gradient well, MW5, has not been impacted by petroleum hydrocarbon, you will need to perform a survey to determine if any off-site conduits exist which might be short circuiting groundwater migration. Either a utility records search and/or groundwater sampling from temporary borings should be done.

Please provide a written comment to this letter **within 30 days or by December 7, 1998.**

Please be advised, I have taken over the oversight of this case from Mr. Peacock. You may contact me at (510) 567-6765 if you have any questions.

Sincerely,



Barney M. Chan  
Hazardous Materials Specialist

C: B. Chan, files  
George Gasper, et al, c/o Mr. Vigo Smith, 3939 Walnut Ave. #264, Carmichael, CA 95608-  
2197

mon-6600E14



**ENVIRONMENTAL RESOLUTIONS, INC.**

February 19, 1999  
ERI 20000102

Mr. Barney Chan  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

Subject: Request for Work Plan, Former Exxon Station 7-0236/6600/14 Street Oakland  
California.

Mr. Chan:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) is submitting this letter confirming an extension for the above-referenced work plan. In a telephone conversation held on February 2, 1999, ERI and the Alameda County Health Care Services Agency agreed to the submittal of a risk management approach work plan on February 19, 1999.

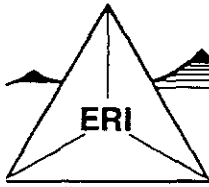
If you have any questions, please contact me at (415) 382-5991.

Sincerely,  
Environmental Resolutions, Inc.

Mark S. Dockum, R.G., C.E.G.  
Senior Project Manager

cc: Marla D. Guensler - Exxon Company, U.S.A.

Postnet	Date	# of pages
Fax Note #7873	2/5	1
To	Barney	
Fax#		
From		
Phone#		



ENVIRONMENTAL  
PROTECTION  
99 FEB -9 AM 9:13  
**ENVIRONMENTAL RESOLUTIONS, INC.**

February 5, 1999  
ERI 200903.104

Mr. Barney Chan  
Alameda County Health Care Services Agency -  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

Subject: Request for Work Plan, Former Exxon Station 7-0236, 6600 14<sup>th</sup> Street, Oakland, California.

Mr. Chan:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) is submitting this letter confirming an extension for the above-referenced work plan. In a telephone conversation held on February 2, 1999, ERI and the Alameda County Health Care Services Agency agreed to the submittal of a risk management approach work plan on February 19, 1999.

If you have any questions, please contact me at (415) 382-5991.

Sincerely,  
Environmental Resolutions, Inc.

Mark S. Dockum, R.G., C.E.G.  
Senior Project Manager

cc: Marla D. Guensler – Exxon Company, U.S.A.

Resources  
for  
Community  
Development

September 11, 1998

2131 University Avenue  
Suite 224  
Berkeley, CA 94704  
510 841-4410  
fax 510 548-3502

Total pages: 7, including this page

To: Barney Chan/Alameda County Health Care Services  
337-9335

From: Lisa Motoyama

# 1068 (TP)

Re: 6600 and 6630 East 14th Street, Oakland

Per our telephone conversation today, please find attached the magnetic contour map for 6630 East 14th Street, the letter from Alameda County Health Care Services dated 5/6/98, and portions of the topographic and boundary survey dated April, 1984. The property owner of 6630 East 14th Street has told us that the property had been a gas station in 1929. We would like to know if the current remediation efforts can determine if there has been any remediation of the older gas station. Also, we would like to know the locations of the monitoring wells that are in place and the eligibility for closure of the two sites.

Thank you for your time and assistance with this matter.



**EXXON** COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENGINEER

(925) 246-8776  
(925) 246-8798 FAX

ENVIRONMENTAL  
PROTECTION

98 SEP -2 PM 01:09

August 24, 1998

Mr. Tom Peacock  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

ST 10 / 068

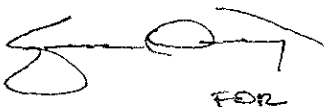
**RE: Exxon RAS #7-0236/6600 East 14<sup>th</sup> Street, Oakland, California**

Dear Mr. Peacock:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring, Third Quarter 1998*, dated August 18, 1998, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the quarterly groundwater monitoring and sampling activities at the subject site.

If you have any questions or comments, please contact me at (925) 246-8776.

Sincerely,



FOR  
Marla D. Guensler  
Senior Engineer

MDG/tjm

Attachment: ERI's Quarterly Groundwater Monitoring Report, Third Quarter 1998, dated August 18, 1998

cc: w/attachment  
Mr. Stephen Hill - California Regional Water Quality Control Board - San Francisco Bay Region

w/o attachment  
Mr. Mark Dockum - ERI



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)

May 6, 1998  
STID 1068

Marla Guensler  
Exxon Co., U.S.A.  
P.O. Box 4032  
Concord, CA 94524-4032

re: 6600 E. 14<sup>th</sup> St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed the following reports:

Quarterly Monitoring Report dated March 11, 1998

Also, we received two letters from Eva Williams dated March 16, 1998 and April 8, 1998. The following are comments about these documents:

1. As regarding the monitoring report, there are no recommendations. The ORC that was added will hopefully have a positive effect. It is also acknowledged that the wells on the parcel with the address 6630 were closed.
2. Eva Williams has a request to receive case closure on the parcel with the address 6630. While it is acknowledged that the gasoline station was operated on two separate parcels with different owners, and leased from each, this office has never opened up a case for the 6630 address. There was a time when the 6630 address was used, in error, and that has been corrected. There is no active case in this office with the address 6630 E. 14<sup>th</sup> St. for us to close.
3. Eva Williams has also requested that an investigation take place to discover if the original tanks on the 6630 site were ever removed when that station was closed down. This office did not regulate tanks at that time, and has no records to that effect.
4. Furthermore, the groundwater data from the monitoring wells that have been installed do not indicate that any groundwater release has occurred from the 6630 site.

\*\*

Exxon Co., U.S.A.

STID 1068

May 6, 1998

Page 2 of 2

5. It seems that all contamination still centers around MW2. On December 26, 1996 this office received a letter from MWM Properties asking whether the tanks that had been at 6630 E. 14<sup>th</sup> St. (part of your station site) had ever been removed. This office has no records of removal of those tanks, which were owned by Texaco prior to their selling the current station to you. Please submit records to this office concerning removal of those tanks. Recognize that you have had two wells on that parcel, both of which have been destroyed because of a lack of contamination. When this office was first involved in the investigation of this site it was not recognized that:

- There were two separate parcels with different owners, and
- There had been a Texaco station on the 6630 parcel, which was destroyed and replaced with another station on the 6600 parcel.

Please call me if have any questions regarding this letter at 567-6782.

Sincerely,




Thomas Peacock, Manager  
Environmental Protection Division

c: Scott Graham, ERI, 74 Digital Dr., Suite 6, Novato, CA 94949  
George Gasper et al, ATTN: Vigo Smith, 3939 Walnut Ave.,  
#264, Carmichael, CA 95608-2197  
Eva Williams, MWM Properties, 10 Crest Rd., San Anselmo,  
CA 94960-2553  
Dick Pantages - Files

LOP - CHANGE RECORD REQUEST FORM

printed:  
03/24/98

Mark Out What Needs Changing and Hand to LOP Data Entry  
(Name/Address changes go to Annual Programs Data Entry)

Insp: 

AGENCY # : 10000      SOURCE OF FUNDS: F      SUBSTANCE: 8006619  
 StID : 1068      LOC:  
 SITE NAME: Exxon # 7-0236      DATE REPORTED : 04/01/91  
 ADDRESS : 6600 E 14th St      DATE CONFIRMED: 04/01/91  
 CITY/ZIP : Oakland      94621      MULTIPLE RPs : Y

SITE STATUS

-----  
 CASE TYPE: O    CONTRACT STATUS: 7    PRIOR CODE:2B3    EMERGENCY RESP:  
 RP SEARCH: S      DATE COMPLETED: 03/27/92  
 PRELIMINARY ASMNT: U    DATE UNDERWAY: 04/25/91    DATE COMPLETED:  
 REM INVESTIGATION:    DATE UNDERWAY:    DATE COMPLETED:  
 REMEDIAL ACTION:    DATE UNDERWAY:    DATE COMPLETED:  
 POST REMED ACT MON:    DATE UNDERWAY:    DATE COMPLETED:  
  
 ENFORCEMENT ACTION TYPE: 1      DATE ENFORCEMENT ACTION TAKEN: 03/27/92  
 LUFT FIELD MANUAL CONSID: 3HSCAWG  
 CASE CLOSED:      DATE CASE CLOSED:  
 DATE EXCAVATION STARTED :      REMEDIAL ACTIONS TAKEN: NT

RESPONSIBLE PARTY INFORMATION

-----  
 RP#1-CONTACT NAME: George Gasper Et Al  
 COMPANY NAME: C/o Vigo N. Smith  
 ADDRESS: 3939 Walnut Avenue #264  
 CITY/STATE: Carmichael, Ca 95608-2197

RP#2-CONTACT NAME: Marla Guensler  
 COMPANY NAME: Exxon Company Usa # 7-0236  
 ADDRESS: P. O. Box 4032  
 CITY/STATE: Concord, Ca 94524

INSPECTOR VERIFICATION:			
NAME _____	SIGNATURE _____	DATE _____	
DATA ENTRY INPUT:			
Name/Address Changes Only		Case Progress Changes	
ANNPMS _____	LOP _____	DATE _____	LOP _____ DATE _____

April 8, 1998  
MWM PROPERTIES  
Eva Williams, Managing Partner  
10 Crest Road  
San Anselmo, CA 94960-2553

Department of Environmental Health  
State Water Resources Control Board  
UST Oversight Program  
Thomas Peacock, Manager  
Environmental Protection Division  
1130 Harbor Way Parkway, Suite 250  
Alameda, CA 94502-6577

RE: EXXON RAS-NO. 7-0236, 6630 E. 14th St., Oakland, CA.

Reference (a) MWM Letter to Thomas Peacock dated March 16, 1998.

Dear Mr. Peacock,

We are in dire need of receiving a case closure letter for our property at 6630- E 14th St. Oakland as outlined in our letter to you in reference (a) above.

This property was vacated and lease cancelled by Exxon in December of 1996.

The two monitoring wellsthere were completed and removed during last year.

We are not involved with the adjoining property at 6600 E. 14th Street that was also under lease by Exxon and may still be under lease but all improvements have been removed in December of 1996.

We are being held up from selling this five lot parcel until a release-clearance is received from your agency. Please advise immediately.

Very truly yours,,



Eva Williams  
Managing Partner  
MWM Properties  
(415) 454-3044



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION IX  
75 Hawthorne Street  
San Francisco, CA 94105-3901

SEP 29 1995

## Notice

### Oakland Urban Land Reclamation/Redevelopment Project Oversight Committee Meeting

Date: October 12, 1995  
Time: 1:00 - 4:00 pm  
Location: City of Oakland  
1333 Broadway  
9th Floor, Multi-Media Room

It has been over two months since we last met. So, for part of this meeting we need to focus on getting "re-acquainted" with this project and identify those action items that we need to address. Some of these critical items are as follows:

- \* Management & Institutional Controls
- \* Technical Project Progress and Deliverables
- \* Overall Time Schedule and Road Map for the Project
- \* Who?, How?, and When? on the involvement of "other" Groups in this Project

A complete agenda will be provided at the October 12th meeting. We all look forward to a successful and productive meeting.

If you have any questions or would like to make some suggestions on agenda topics, or are unable to attend please call me at (415)744-2076, or Andrew Clark-Clough from the City of Oakland at (510)238-6361. Thanks for your time it is greatly appreciated.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Rodriguez".

Martin Rodriguez, Project Manager  
Office of Underground Storage Tanks

April 17, 1998  
MWM Properties  
Eva Williams, Managing Partner  
10 Crest Road  
San Anselmo, CA 94960-2553

Department of Environmental Health  
State Water Resources Control Board  
UST Oversight Program  
Thomas Peacock, Manager  
Environmental Protection Division  
1130 Harbor Way Parkway, Suite 250  
Alameda, CA 94502-6577

RE: EXXON RAS-7-0236- 6630 E. 14th St. Oakland.

Reference (a) MWM Letter to Thomas Peacock dated April 8, 1998.

Dear Mr. Peacock,

The subject EXXON Service Station was originally a Texaco Station at 6630-E. 14th St. Oakland and lot parcels 1, 2, 3, 4 and 78 were leased by Texaco starting in June 1928.

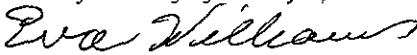
In Sept. of 1965, the adjacent five parcel lots 5, 6, 7, 8 and 9 under a second party lease were secured by Texaco in order to build a new and more modern station on the new leased property at 6600-E 14th St.

Both property leases were transferred to Exxon by Texaco. Due to an error by Texaco, the leases did not expire at the same time. The 6630-E. 14th St. expired Dec. 13, 1996 and the 6600 E. 14th St. expires in the year 2000.

Enclosed is a Civil Engineering Co. Topographical and Boundary Survey map of the properties in question.

Our five lot parcel on the right has been cleared of all contamination and all monitoring wells removed. Also with the use of Magnetic Resonance Testing, there is no evidence of old U.G. tanks remaining.

In order to sell these lots at 6630-E 14th St., we request that a letter be issued from your office indicating the above status of our property as soon as possible.

Very truly yours,  
  
Eva Williams  
Managing Partner  
MWM Properties  
10 Crest Road  
San Anselmo, CA 94960-2553  
(415) 454-3044

Encl.

STW 1068

38 MAR 17 PM 3:22

March 16, 1998  
MWM PROPERTIES  
Eva Williams, Managing Partner  
10 Crest Road  
San Anselmo, CA 94960-2553

Department of Environmental Health  
State Water Resources Control Board  
UST Oversight Program  
Thomas Peacock, Manager  
Environmental Protection Division  
1131 Harbor Way Parkway, Suite 250  
Alameda, CA 94502-6577

RE: EXXON RAS NO. 7-0236, 6630 E. 14th St. Oakland, CA.

- Reference (a) MWM Letter to Thomas Peacock dated Dec. 26, 1996.
- (b) Thomas Peacock's letter to Marla Gensler of Exxon, Concord, CA. dated Oct. 2, 1997.
- (c) Dept. of Environmental Health letter (Susan Hugo) dated Feb. 16, 1993 on case closure of King Knight Co.

Dear Mr. Peacock,

We are in the process of placing our subject property on the market for sale. However, we have not received any documents or indication that the old tanks installed by Texaco were removed when the new station was completed on the adjacent property at 6600 E. 14th Street on Sept. 1, 1965 as noted in the above references (a) and (b).

We further need a letter or document from your agency indicating a case closure recommendation of the property. The monitoring wells were completed and removed some time ago.

Enclosed is a copy reference (c) of a type closure letter we are looking for of a similar case that we were involved with your office in 1993 at King Knight Co. in Emeryville.

Thank you for your assistance in this matter.

Very truly yours,  
*Eva Williams*  
Eva Williams  
MWM Properties  
(415) 454-3044

Encl.

ST 17-558

**EXXON** COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENGINEER

(510) 246-8776  
(510) 246-8798 FAX

December 5, 1997

Mr. Tom Peacock  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

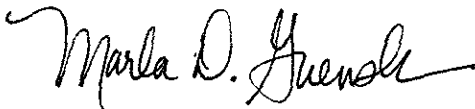
**RE: Former Exxon RAS #7-0236/6600 East 14th Street, Oakland, California**

Dear Mr. Peacock:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring, Fourth Quarter 1997*, dated November 26, 1997, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the quarterly groundwater monitoring at the subject site.

If you have any questions or comments, please contact me at (510) 246-8776.

Sincerely,



Marla D. Guensler  
Senior Engineer

MDG/tjm

Attachment: ERI's Quarterly Groundwater Monitoring Report, Fourth Quarter 1997, dated November 26, 1997

cc: w/attachment  
Mr. Kevin Graves - California Regional Water Quality Control Board, San Francisco Bay Region

w/o attachment  
Mr. Marc A. Briggs - ERI

NOV 26 1997  
11 26 AM '97  
3 11 11 PM '97





ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARSE, Agency Director



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

October 2, 1997  
STID 1068

Marla Guensler  
Exxon Co., U.S.A.  
P.O. Box 4032  
Concord, CA 94524-4032

re: 6600 E. 14<sup>th</sup> St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed the following reports:

Quarterly Monitoring Report dated January 27, 1997  
Quarterly Monitoring Report dated March 26, 1997  
Lines, and Dispensers Report dated April 11,  
1997

Site plan dated 6/25/97 (faxed)  
Quarterly Monitoring Report dated July 21, 1997  
Quarterly Monitoring Report dated September 19, 1997

These reports were all submitted by you and written by  
Environmental Resolutions, Inc. (ERI).

It seems that all contamination still centers around MW2. It is  
not necessary to send copies of these reports to the Regional  
Water Quality Control Board.

On December 26, 1996 this office received a letter from MWM  
Properties asking whether the tanks that had been at 6630 E.  
14<sup>th</sup> St. (part of your station site) had ever been removed. This  
office has no records of removal of those tanks, which were owned  
by Texaco prior to their selling the current station to you.  
Please submit records to this office concerning removal of those  
tanks. Recognize that you have had two wells on that parcel,  
both of which have been destroyed because of a lack of  
contamination. When this office was first involved in the  
investigation of this site it was not recognized that:

There were two separate parcels with different owners  
There had been a Texaco station on the 6630 parcel, which  
was destroyed and replaced with another station on the

Exxon Co., U.S.A.

STID 1068

October 2, 1997

Page 2 of 2

6600 parcel. This situation has not made things simple. However, it is necessary to understand what has happened for proper decisions to be made.

Have you thought of using ORC (oxygen releasing compound) in the wells with significant contamination remaining?

Please call me if have any questions regarding this letter at 567-6782.

Sincerely,



Thomas Peacock, Manager  
Environmental Protection Division

c: Marc Briggs, Glenn Matteucci, ERI, 74 Digital Dr., Suite 6,  
Novato, CA 94949  
George Gasper et al, ATTN: Vigo Smith, 3939 Walnut Ave.,  
#264, Carmichael, CA 95608-2197  
MWM Properties, 10 Crest Rd., San Anselmo, CA 94960-2553  
Gordon Coleman - Files

**EXXON** COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENGINEER

(510) 246-8776  
(510) 246-8798 FAX

97 SEP 24 PM 4:30

ST 101068

September 19, 1997

Mr. Kevin Tinsley  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

**RE: Former Exxon RAS #7-0236/6600 East 14th Street, Oakland, California**

Dear Mr. Tinsley:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring, Third Quarter 1997*, dated September 17, 1997, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the quarterly groundwater monitoring at the subject site.

If you have any questions or comments, please contact me at (510) 246-8776.

Sincerely,



Marla D. Guensler  
Senior Engineer

MDG/tjm

Attachment: ERI's Quarterly Groundwater Monitoring Report, Third Quarter 1997, dated September 17, 1997

cc: w/attachment  
Mr. John Kaiser - California Regional Water Quality Control Board, San Francisco Bay Region

w/o attachment  
Mr. Marc A. Briggs - ERI



**EXXON** COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

STID 1068

MARLA D. GUENSLER  
SENIOR ENGINEER

(510) 246-8776  
(510) 246-8798 FAX

July 21, 1997

Mr. Kevin Tinsley  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

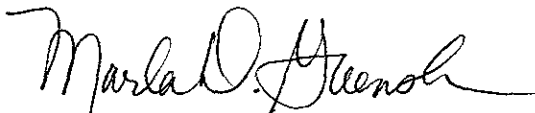
**RE: Former Exxon RAS #7-0236/6600 East 14th Street, Oakland, California**

Dear Mr. Tinsley:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring, Second Quarter 1997*, dated June 30, 1997, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the quarterly groundwater monitoring at the subject site.

If you have any questions or comments, please contact me at (510) 246-8776.

Sincerely,



Marla D. Guensler  
Senior Engineer

MDG/tjm

Attachment: ERI's Quarterly Groundwater Monitoring Report, Second Quarter 1997, dated June 30, 1997

cc: w/attachment  
Mr. John Kaiser - RWQCB - San Francisco Bay Region

w/o attachment  
Mr. Marc A. Briggs - ERI

**EXXON** COMPANY, U.S.A.

#1068

P.O. BOX 4032 • CONCORD, CA 94524-4032  
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENGINEER

(510) 246-8776  
(510) 246-8798 FAX

May 2, 1997

Mr. Kevin Tinsley  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

**RE: Former Exxon RAS #7-0236/6630 East 14th Street, Oakland, California**

Dear Mr. Tinsley:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring, First Quarter 1997*, dated April 21, 1997, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the quarterly groundwater monitoring at the subject site.

If you have any questions or comments, please contact me at (510) 246-8776.

Sincerely,



Marla D. Guensler  
Senior Engineer

MDG/tjm

Attachment: ERI's Quarterly Groundwater Monitoring Report, First Quarter 1997, dated April 21, 1997

cc: w/attachment  
Mr. John Kaiser - California Regional Water Quality Control Board, San Francisco Bay Region

w/o attachment  
Mr. Marc A. Briggs - ERI

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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

STID 1068

January 13, 1997

Exxon Company, U.S.A.  
P.O. Box 4032  
Concord, CA 94524-2032  
Attn: Marla D. Guensler

RE: EXXON RAS #7-0236, 6630 EAST 14TH STREET, OAKLAND, CA 94621

Dear Marla Guensler:

This office recently completed a review of the case file for the above referenced Oakland site up to and including the Environmental Resolutions, Inc., (ERI) "Work Plan to Destroy and Replace Wells" dated December 12, 1996.

**This work plan is approved.** For your information, verbal approval was given to Mr. Glenn Matteucci of Environmental Resolutions in a telephone conversation on 1/6/97.

Please feel free to call me directly at 510/567-6880 should you have any questions.

Sincerely,

Dale Klettke, CHMM  
Hazardous Materials Specialist

c: Glenn Matteucci, ERI, 359 Bel Marin Keys Blvd., Suite 20, Novato, CA 94949  
Dale Klettke--files

10681wpok.xmw

Bc

ENVIRONMENTAL  
PROTECTION

96 DEC 27 PM 2: 52

December 26, 1996  
MWM Properties  
Eva Williams, Managing Partner  
10 Crest Road  
San Anselmo, CA 94960-2553  
(415) 454-3044

Department of Environmental Health  
State Water Resources Control Board  
UST Oversight Program  
Thomas Peacock, Supervising HMS  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502-6577

ST 101868

RE: EXXON RAS NO. 7-0236, 6630 E.14th St., Oakland.

Dear Mr. Peacock,

We are the owners of the parcel containing lots 1, 2, 3, 4 and 78 that had been leased by Exxon with an option to renew on December 13, 1996 for an additional five years. They chose to cancel the lease at that time and are now in the process of removing the Exxon station and underground tanks on the adjacent property which is owned by Vigo Smith et al.

Texaco had leased our property starting on June 18, 1928 and had built a station on our property. On Sept. 1, 1965, they leased the adjoining property and built a more modern station at that time and completely demolished the old station leaving no improvements on our property. Several years later Exxon purchased the leases from Texaco.

We have been attempting since October 23, 1996 thru Exxon to determine if Texaco removed the old tanks in 1966 when the old station was torn down? To date there has not been any response from Exxon's checking with Texaco's engineering department in Houston, Tx.

Our question concerns the fact that when the old station was demolished thirty years ago, there is a possibility the old U.G. tanks were not removed as there probably weren't any regulations requiring removal. Do we have to determine if the old tanks are still there and if so have them removed at this time?

We would appreciate a prompt reply due to current work on the adjacent site at this time.

Very truly yours,

*Eva Williams*  
MWM Properties  
Eva Williams  
Managing Partner.

**EXXON** COMPANY, U.S.A.

MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENGINEER

(510) 246-8776  
(510) 246-8798 FAX

December 12, 1996

Mr. Dale Klettke  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

**RE: Exxon RAS #7-0236/6630 East 14th Street, Oakland, CA**

Dear Mr. Klettke:

Attached for your review and comment is a work plan entitled *Work Plan to Destroy and Replace Wells* for the above referenced site. The work plan was prepared by Environmental Resolutions, Inc., (ERI) of Novato, California, and details the tasks and procedures to destroy and replace wells associated with the subject site.

If you have any questions or comments, please contact me at (510) 246-8776.

Sincerely,

By: 

Marla D. Guensler  
Senior Engineer

MDG/tm

Attachment: Work Plan to Destroy and Replace Wells, dated December 12, 1996.

cc: w/attachment  
Mr. John Kaiser - RWQCB San Francisco Bay Region

w/o attachment  
Mr. Marc A. Briggs - ERI

ENVIRONMENTAL  
PROTECTION  
96 DEC 24 PM 12: 69



**BILLING ADJUSTMENT FORM**

Date: 12/20/96

STID#: 1068

Caller: \_\_\_\_\_ Phone: \_\_\_\_\_

Business Name: Exxon Station

Site Address: 6630 E14th St City Oak Zip 94621

REQUESTED CHANGES: Remove from all haz mat  
Billing

Billing Acct#	
<input type="checkbox"/>	Generator....H _____
<input type="checkbox"/>	HMMP.....L _____
<input type="checkbox"/>	UST.....T _____

Received by: \_\_\_\_\_

- Discontinue billing with explanation and date:**
- Generator site demo + tanks (4) removed on 12/20/96
  - HMMP (AB2185) \_\_\_\_\_
  - UST \_\_\_\_\_

- Continue billing with following changes:**
- |   |       |       |
|---|-------|-------|
|   | From: | To:   |
| <input type="checkbox"/> Change number of EMPLOYEES     | _____ | _____ |
| <input type="checkbox"/> Change number of TANKS         | _____ | _____ |
| <input type="checkbox"/> HMMP (AB2185) - See Attachment |       |       |
| <input type="checkbox"/> Updated information below:     |       |       |

Business Name \_\_\_\_\_ Phone \_\_\_\_\_

Site address \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

Business Owner \_\_\_\_\_ Phone \_\_\_\_\_

BILLING address \_\_\_\_\_ City \_\_\_\_\_ Zip \_\_\_\_\_

Specialist: B. Chan

Date: 12-20-96

Sent to billing  
on \_\_\_\_\_

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 # \_\_\_\_\_ Site Name Former Exxon Station Today's Date 12/20/96

Site Address 6630 Ely St

City Dak Zip 94621 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
- x III. Under ground Storage Tanks R

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

### Comments:

We're cleaning out tank pit, approx 150-200 cy of additional pea gravel generated & stacked next to initial 100 cy.

- approx 1-2 cy soil generated from digging out dispenser area
- sple 11 - north end of 2nd. island - black clay ~ 2' bgs, slight gas odor
- sple 12 - center of " " - " " " " " " - fuel odor
- sple 13 - south end " " - " " " " " " " "

Based on current <sup>spring</sup> GW @ station - I allowed the omission of GW sampling.

- PLS run soil spls (except beneath oil tank) for TPHg, BTEX + MTBE, the spl beneath oil tank should also be run for the above plus TPHd, TOG, Chlorinated HC, metals cd, Cr, Pb, Ni + Zn. If any HC's detected also run for Semi-volatiles - Method 8270.

- PLS check w/ our office prior to reusing any spoils.  
contact Dale Kletthue or B Chan 567-6765 if you have any questions

- I okayed 2 composite / 50 cy of pea gravel backfill for reuse if sample is clean

Contact \_\_\_\_\_  
Title \_\_\_\_\_  
Signature [Signature]

Inspector B Chan  
Signature B Chan

II, III

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 # \_\_\_\_\_ Site Name \_\_\_\_\_ Today's Date 7/21/16

Site Address \_\_\_\_\_

City \_\_\_\_\_ Zip 94601 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 11

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

**Comments:**

While cleaning out tank out, approx 1500 lbs of additional  
 gravel generated & stacked next to initial 100 cy  
 - approx 1-2 cy soil abraded from digging at dispenser area  
 - site 11 - north end of 2nd island - black clay ~ 2' deep, slight gas odor  
 - site 12 - center of " " " " " " - fuel odor  
 - site 13 - south end " " " " " " " " " "

Based on current GW (G) station - I allowed the omission  
 of GW sampling. spms

- The new soil sales (except beneath jet tank) for PMA, BTEX  
 + MTBE, the spgs beneath jet tank should also be run  
 for the same plus TPHd, TOG, chlorinated HC, metals cd.  
 Cu, Pb, Ni, + Zn. If any HC's detected also run for semi-  
 volatiles - Method 8270.

- The check out on these - now to someone else's  
 contact E. (to whether or not you 567-6700 if you  
 need any questions.

- I okayed 1 composite / 50 cy of pea gravel backfill for reuse if  
 sample is clear.

Contact \_\_\_\_\_  
 Title \_\_\_\_\_  
 Signature \_\_\_\_\_

Inspector B. CHAN  
 Signature B. Chan

II, III

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 # 1028 Site Name Exam Station Today's Date 12/20/96  
 Site Address 6630 F14th St  
 City Oak Zip 94621 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

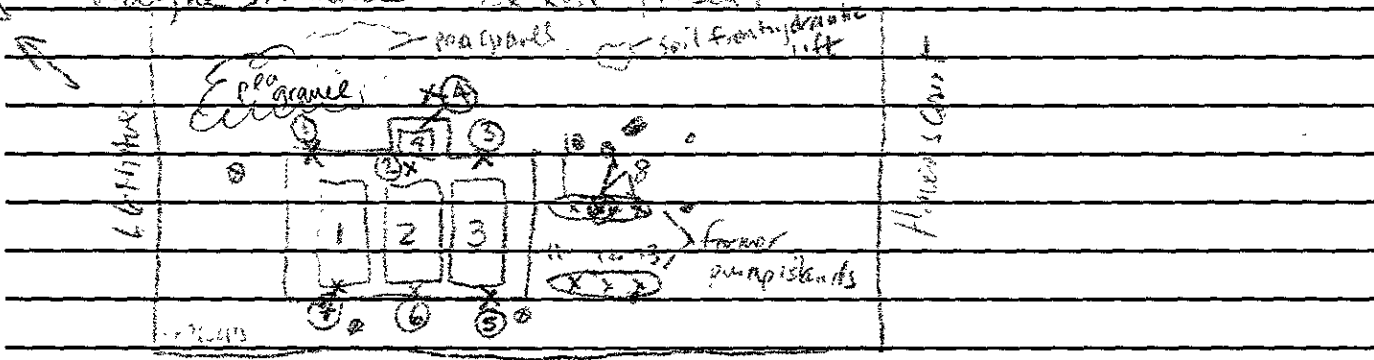
III. Under ground Storage Tanks Removal

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

**Comments:**

UST Removal 4 tanks - 10K Fiberglass + 1- several waste oil - oil tanks like class - contains Xerox  
 Enviro. Restoration Inc - contractor - (Materials et al)  
 Enclosed Tank Insulation  
 OPI - Larry Griffin

Wayne Simmons - Excavator Present



E14th Street (interchange block)

- T (1) 9 LEL 0-10% no holes or cracks observed
- T (2) 3 LEL 0-10% no holes or cracks observed
- T (3) 11 LEL 0-10% no holes or cracks observed
- T (4) 0 LEL 8 O2 - no holes or cracks visible

Contact \_\_\_\_\_  
 Title \_\_\_\_\_  
 Signature \_\_\_\_\_

Inspector 3. Chan  
 Signature \_\_\_\_\_

II, III

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 # 10608 Site Name Former Exxon Station Today's Date 12/20/96  
Site Address 6630 E 14th St  
City Oakland Zip 94621 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 **R**

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

### Comments:

Tank pit is lined w/ pea gravel, based on dtw-sidewall samples from ends of fuel tanks + 1 spl beneath the oil tank + (1) beneath ea. dispenser will be taken. → eventually all removed.

Soil spl (1) NE corner of pit - brown silt - no odor @ ~10' bgs

Soil spl (2) East end of tank #2 - blue gray silt, no odor (below oil tank) @ 10' bgs

Soil spl (3) East end tank #3, brown silt, " "

Soil spl (4) beneath waste oil tank - brown silt - no odor

Soil spl (5) SW corner - blue gray silt - slight gas odor

Soil spl (6) west end of Tank 2, blue gray silt - no odor

Soil spl (7) NW corner of pit, no odor

Approx 100 cy of pea gravel in spoils pile generated from removal - is being tested for possible reuse, approx 10 cy of covered spoil from hydraulic lift removal (likely to be disposed)

- While moving pea gravel on west side of pit - noticeable gas odors emitted and a slight sheen noticed on water

Soil spl (8) ~ dispenser ~~area~~ <sup>side</sup> ~ 2.5' bgs black clay - slight odor

(9) - " center ~ 3.0 bgs " " - sl - no odor

(10) " n-end ~ 3.0 bgs " " - "sharp" fuel odor

Contact \_\_\_\_\_  
Title \_\_\_\_\_  
Signature [Signature]

Inspector B Chan  
Signature [Signature]

II, III

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 # 11428 Site Name Former Exxon Station Today's Date 12/20/96  
 Site Address 6633 E 14th St  
 City Oakland Zip 94621 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 R

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

**Comments:**

Tank pit is lined w/ pea gravel <sup>eventually all removed.</sup> based on dtw - several samples from ends of tank + 1 spec beneath the oil tank + (1) beneath ea dispenser will be taken.

Soil spec (1) NE corner of pit - brown silt - no odor @ ~10' bgs

Soil spec (2) East end of Tank #2 - blue gray silt no odor (below oil tank) 10' bgs

Soil spec (3) West end of Tank #3 brown silt " "

Soil spec (4) beneath waste oil tank - brown silt - no odor

Soil spec (5) SW corner - blue gray silt - slight gas odor

Soil spec (6) West part of Tank 2 blue gray silt - no odor

Soil spec (7) NW corner of pit, no odor

Approx 100 cu ft of pea gravel in soil pile generated from removal - is being tested for possible reuse, approx 100 cu ft covered soil from hydrocarbon life removed (likely to be disposed)

- While removing pea gravel at west side of pit - noticeable gas odor emitted and a slight steam noticed in winter

Soil (8) ~ dispenser <sup>s' end</sup> @ 2' bgs black clay - slight odor

(9) - " center ~ 3' bgs " " - sl - no odor

(10) " n-end ~ 3' bgs " " - " slight fuel odor

Contact \_\_\_\_\_  
 Title \_\_\_\_\_  
 Signature [Signature]

Inspector P. Chan  
 Signature [Signature]

II, III

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 # 1068 Site Name Exxon Station Today's Date 12/20/96  
 Site Address 6630 E 14th St  
 City Oak Zip 94621 Phone \_\_\_\_\_

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

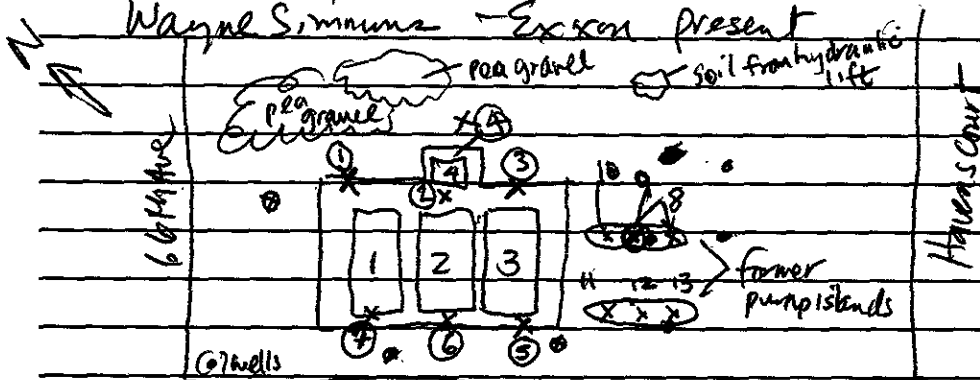
**Inspection Categories:**

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

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

**Comments:**

UST Removal 4 tanks / 3 - 10K Fibreglass + 1 - 500 gal waste oil - all tanks fibreglass - Century Perxes  
 Env. Resolution Inc - contractor - G. Materacci et al  
 Enchman - Tank hauler  
 OFD - Leroy Griffin  
 Wayne Simmons - Exxon present



E 14th Street (International Blvd)

T (1)	9 LEL	0-1 O <sub>2</sub>	no holes or cracks observed
T (2)	13 LEL	0-1 O <sub>2</sub>	no holes or cracks observed
T (3)	11 LEL	0-1 O <sub>2</sub>	no holes or cracks observed
T (4)	0 LEL	8 O <sub>2</sub>	- no holes or cracks visible

II, III

Contact \_\_\_\_\_  
 Title \_\_\_\_\_  
 Signature [Signature]

Inspector B. Chan  
 Signature [Signature]

**EXXON COMPANY, U.S.A.**

2730 ARDEN WAY, SUITE 232  
SACRAMENTO, CA 95825

WAYNE SIMMONS  
MAINTENANCE & COMPLIANCE SPECIALIST  
NORTHERN CALIFORNIA AREA  
(916)487-6591 / (916)487-5983 FAX

STD  
10/68

November 22, 1996

Dale Klettke  
Alameda County Dept. of Environmental Health  
Hazardous Materials Division  
80 Swan Way, Room 200  
Oakland, CA 94621

Ref: Exxon Station #7-0236 6630 E. 14th Oakland, CA 94621

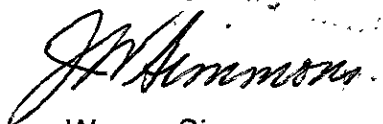
Dear Mr. Klettke:

This letter is to serve notice of Exxon's intentions to close the above station on December 13, 1996. Our plans are to close the location, pull the motor fuel tanks & waste oil tank and demolish the building & canopy by January 15, 1997.

Should there be any changes, we will notify your office.

Should you have any questions or concerns, I can be reached at (916)487-6591.

Sincerely,



Wayne Simmons  
M&C Specialist

cc. Rosemary Lee  
David Goodrum  
Bill Curran



ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



STID 1068

November 19, 1996

George Gasper Et Al  
3939 Walnut Avenue #264  
Carmichael, CA 95608-2197  
Attn: Vigo N. Smith

Exxon Company, U.S.A.  
P.O. Box 4032  
Concord, CA 94524-2032  
Attn: Marla D. Guensler

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

RE: EXXON RAS #7-0236, 6600 EAST 14TH STREET, OAKLAND, CA 94621

Dear Mr. Smith and Ms. Guensler:

This letter is in response to a request by the Law Offices of Dennis, Schottky, Swanberg & Braunstein, which petitioned this office to designate Vigo N. Smith as having "Secondary Responsible Party Status".

As specified in the State Water Resources Control Board's (SWRCB), January 6, 1995 memorandum, the following criteria is used where a determination of secondary Responsible Party may be made.

- a. **The primary Responsible Party (in this case EXXON) is performing corrective action and**
- b. **It is clear that the party seeking secondary status did not in any way initiate or contribute to the actual discharge**

**Please be advised that if the primary Responsible Party fails to perform corrective action, then the secondary Responsible Party will be considered the primary Responsible Party.**

Based on the file information, secondary Responsible Party status is hereby granted to Vigo N. Smith. If any of the above named Responsible Parties can dispute this designation, please provide the documentation disputing this secondary Responsible Party designation to my attention within 30 days from the date of this letter, **or no later than December 19, 1996.**

Should you have any questions or comments, please feel free to call me directly at (510)567-6880.

Sincerely,

Dale Klettke, CHMM  
Hazardous Materials Specialist

Mr. Vigo N. Smith  
RE: 6600 East 14th Street, Oakland  
November 19, 1996  
Page 2 of 2

c: Andrew R. Schottky, Jr., c/o Law Offices of Dennis, Schottky, Swanberg & Braunstein,  
9343 Tech Center Drive, Suite 145, Sacramento, CA 95826  
Lori Casias, SWRCB  
Dale Klettke--files

1068stat.dkt

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



STID 1068

November 19, 1996

George Gasper Et Al  
3939 Walnut Avenue #264  
Carmichael, CA 95608-2197  
Attn: Vigo N. Smith

Exxon Company, U.S.A.  
P.O. Box 4032  
Concord, CA 94524-2032  
Attn: Marla D. Guensler

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

RE: EXXON RAS #7-0236, 6600 EAST 14TH STREET, OAKLAND, CA 94621

Dear Mr. Smith and Ms. Guensler:

This letter is in response to a request by the Law Offices of Dennis, Schottky, Swanberg & Braunstein, which petitioned this office to designate Vigo N. Smith as having "Secondary Responsible Party Status".

As specified in the State Water Resources Control Board's (SWRCB), January 6, 1995 memorandum, the following criteria is used where a determination of secondary Responsible Party may be made.

- a. **The primary Responsible Party (in this case EXXON) is performing corrective action and**
- b. **It is clear that the party seeking secondary status did not in any way initiate or contribute to the actual discharge**

**Please be advised that if the primary Responsible Party fails to perform corrective action, then the secondary Responsible Party will be considered the primary Responsible Party.**

Based on the file information, secondary Responsible Party status is hereby granted to Vigo N. Smith. If any of the above named Responsible Parties can dispute this designation, please provide the documentation disputing this secondary Responsible Party designation to my attention within 30 days from the date of this letter, **or no later than December 19, 1996.**

Should you have any questions or comments, please feel free to call me directly at (510)567-6880.

Sincerely,

Dale Klettke, CHMM  
Hazardous Materials Specialist

**BARCLAYS OFFICIAL CALIFORNIA CODE OF REGULATIONS**  
384 Oyster Point Boulevard, Unit 9  
South San Francisco, CA 94080  
Post Office Box 3066  
South San Francisco, CA 94083

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Register 98, No. 13

Official Publication of the State of California

March 27, 1998

*Barclays Official*  
**CALIFORNIA  
CODE OF  
REGULATIONS**

**CALIFORNIA REGULATORY CODE SUPPLEMENT**

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**MAIL TO** 

**NORMA ARREGUIN  
ALAMEDA CNTY DEPT OF ENV HLTH  
1131 HARBOR BAY PKWY  
STE 250  
ALAMEDA CA 94502-6577**

**California Regulatory Code Supplement** to *Barclays Official California Code of Regulations* is published weekly by West Group at 50 California Street, Nineteenth Floor, San Francisco, CA 94111. Subscription Rates: \$2300 per year for updates to the complete *Code*, plus various lesser rates depending on parts ordered; consult publisher for complete rates. Changes of address must reach the publisher's office six weeks in advance of the next issue date. **POSTMASTER:** Send address changes to **Barclays California Regulatory Code Supplement, P.O. Box 3066, South San Francisco, CA 94083.** *Barclays* and *Barclays Official California Code of Regulations* are trademarks used herein under license.

Mr. Vigo N. Smith  
RE: 6600 East 14th Street, Oakland  
November 19, 1996  
Page 2 of 2

c: Andrew R. Schottky, Jr., c/o Law Offices of Dennis, Schottky, Swanberg & Braunstein,  
9343 Tech Center Drive, Suite 145, Sacramento, CA 95826  
Lori Casias, SWRCB  
Dale Klettke--files

1068stat.dkt

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GEN'L MAC BU

130 items

3.6 MB in disk

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PM

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



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

STID 1068

November 15, 1996

Exxon Company, U.S.A.  
P.O. Box 4032  
Concord, CA 94524-2032  
Attn: Marla D. Guensler

RE: EXXON RAS #7-0236, 6630 EAST 14TH STREET, OAKLAND, CA 94621

Dear Marla Guensler:

This office recently completed a review of the case file for the above referenced Oakland site up to and including the Environmental Resolutions, Inc., (ERI) "Quarterly Groundwater Monitoring, Third Quarter 1996" dated October 11, 1996.

As documented in my February 26, 1996 letter, the sampling frequency for monitoring wells MW-1, MW-4 and MW-7 was reduced from quarterly to semi-annually. In addition, you were requested to continue a **quarterly** schedule of well sampling, monitoring, and report submittal for monitoring wells MW-2, MW-3, MW-5 and MW-6.

However, only groundwater monitoring wells MW-1, MW-4 and MW-7 were reported by ERI as having been sampled during the third quarter 1996 monitoring event. This omission resulted in the monitoring wells (MW-2, MW-3, MW-5 and MW-6), which historically revealed the highest concentrations of petroleum hydrocarbons, not being sampled during the third quarter 1996. A copy of the letter is enclosed for your review.

**Therefore, please continue to adhere to a quarterly schedule of well sampling, monitoring, and report submittal for monitoring wells MW-2, MW-3, MW-5 and MW-6. Sample analytes shall continue to be TEPHd, TPHg, MTBE and BTEX.**

Revised monitoring well sampling schedule is as follows:

**SEMI-ANNUAL SAMPLING**

WELLS      MW-1  
              MW-4  
              MW-7

**QUARTERLY SAMPLING**

WELLS      MW-2  
              MW-3  
              MW-5  
              MW-6

Please feel free to call me directly at 510/567-6880 should you have any questions.

Marla Guensler

RE:Exxon RAS # 7-0236, 6630 East 14th Street, Oakland

November 15, 1996

Page 2 of 2

Sincerely,



Dale Klettke, CHMM  
Hazardous Materials Specialist

enclosure

c: Glenn Matteucci, ERI, 359 Bel Marin Keys Blvd., Suite 20, Novato, CA 94949  
Dale Klettke--files

1068semi.ann





LAW OFFICES OF  
**DENNIS, SCHOTTKY, SWANBERG & BRAUNSTEIN**  
A PROFESSIONAL CORPORATION  
9343 Tech Center Drive, Suite 145  
Sacramento, California 95826  
Telephone: (916) 363-1055  
FAX: (916) 363-1072

Andrew R. Schottky, Jr.  
Chrisman L. Swanberg  
Jerrold B. Braunstein

Sy Dennis, Jr. (1917-1989)

November 12, 1996

Transmitted by Fax to: <sup>NO 88</sup> ~~(916) 227-4349~~

STID  
1068

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
Attention: Roni Riley  
Environmental Health Services  
1131 Harbor Bay Parkway, #250  
Alameda, California 94502-6577

Re: Vigo N. Smith, STID# 1068  
Exxon Company #7-0236

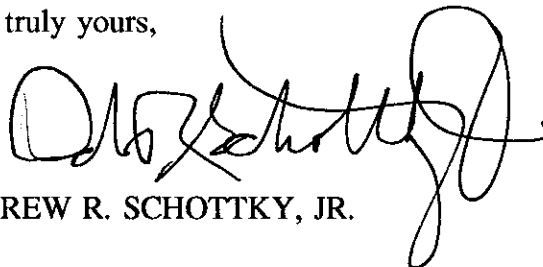
Dear Sir:

I represent the Vigo Smith Family with regard to the service station which they lease to Exxon Corporation at 6600 E. 14th Street, Oakland, CA 94621. I am enclosing a copy of the Alameda County Health Care Service letter dated November 1, 1996. Please consider this letter as a request on behalf of my client, Vigo N. Smith, for petition procedures. Please forward the petition procedure by fax to my fax number: (916) 363-1072; or, mail them to me at the above address.

You are advised that my clients inherited the subject property from their mother in the 1980's. In 1965 their mother leased the property to Texaco Company who operated a service station on the property until the mid 1980's when their lease was assigned to Exxon Corporation. Exxon Corporation has operated a service station on the site since that time and the service station is currently operation.

It is my understanding that Texaco installed the original storage tanks on the property and Texaco and Exxon would certainly be the primary responsible parties for any cleanup.

Very truly yours,



ANDREW R. SCHOTTKY, JR.

ARS:jb

**EXXON** COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032

MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENGINEER

(510) 246-8776  
(510) 246-8798 FAX

D/K  
ST 10 1068

May 15, 1996

Mr. Thomas Peacock  
Alameda County Health Agency  
Division of Hazardous Materials  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

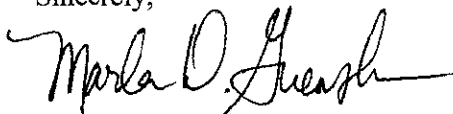
**RE: Exxon RAS #7-0236/6630 East 14th Street, Oakland, CA**

Dear Mr. Peacock:

Attached for your review and comment is a report entitled *Quarterly Groundwater Monitoring, First Quarter 1996* for the above referenced site. This report, prepared by Environmental Resolutions, Inc., (ERI), of Novato, California, details the results of the groundwater monitoring and sampling event which occurred in February 1996.

If you have any questions or comments, please contact me at (510) 246-8776.

Sincerely,



Marla D. Guensler  
Senior Engineer

MDG/jb

attachment: ERI Quarterly Report dated March 29, 1996

cc: w/attachment:

Mr. Lester Feldman - San Francisco Bay RWQCB

w/o attachment

Marc Briggs - ERI, Novato

EXXON  
MAY 15 1996  
MAY 15 1996

ALAMEDA COUNTY  
HEALTH CARE SERVICES

AGENCY  
DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

STID 1068

DEPARTMENT OF ENVIRONMENTAL HEALTH  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
(510) 567-6777

February 26, 1996

Exxon Company, U.S.A.  
P.O. Box 4032  
Concord, CA 94524-2032  
Attn: Marla D. Guensler

RE: EXXON RAS #7-0236, 6630 EAST 14TH STREET, OAKLAND, CA 94621

Dear Marla Guensler:

This office recently completed a review of the case file for the above referenced Oakland site up to and including the Environmental Resolutions, Inc., (ERI) "Quarterly Groundwater Monitoring, Fourth Quarter 1995" dated December 14, 1996. This report documents the quarterly groundwater sampling activities for the five (5) on-site and two (2) off-site groundwater monitoring wells.

Laboratory analysis of groundwater samples collected from monitoring wells MW-1, MW-4 and MW-7 have shown non-detectable concentrations of total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethyl benzene, and total xylenes (BTEX) for several consecutive quarters. Total extractable petroleum hydrocarbons as diesel (TEPHd) were detected at maximum concentrations of <300 ppb (MW-1), 140 ppb (MW-4) and 280 ppb (MW-7) since groundwater samples were first collected from these wells. In addition, these three groundwater monitoring wells have shown non-detectable concentrations (<2.5 ppb) of methyl-tert-butyl ether (MTBE) for the last two sampling events.

At this time please adhere to a revised **semi-annual (1st and 3rd quarters)** schedule of well sampling, monitoring, and report submittal for monitoring wells MW-1 and MW-4 and MW-7. Sample analytes shall continue to be TEPHd, TPHg, MTBE and BTEX.

Please continue to adhere to a **quarterly** schedule of well sampling, monitoring, and report submittal for monitoring wells MW-2, MW-3, MW-5 and MW-6. Sample analytes shall continue to be TEPHd, TPHg, MTBE and BTEX.

**Groundwater elevation measurements for all seven (7) wells are to continue on a quarterly basis.**

In addition, this letter is in response to the changing regulations resulting from Senate Bill 1764 (and the SB1764 Scientific Advisory Committee). In response to the October 16, 1995, Lawrence Livermore National Laboratory (LLNL) Study entitled "Recommendations To Improve the Cleanup Process for California's Leaking Underground Fuel Tanks", the California Regional

Marla Guensler  
RE:Exxon RAS # 7-0236, 6630 East 14th Street, Oakland  
February 26, 1996  
Page 2 of 2

Water Quality Control Board (RWQCB) issued its December 8, 1995 "Interim Guidance on Required Cleanup at Low Risk Fuel Sites". This document was further modified by the January 5, 1996-RWQCB "Supplemental Instructions" guidance recommended for use in regulating low-risk sites. These guidance documents concur with the findings and conclusions of the LLNL Study, which recommended that fuel sites be treated differently and less stringently than solvent sites. The study also concluded that most fuel sites fall into the low-risk category, for which source removal and passive remediation are adequate.

In order for your site to fall into the "Low Risk Groundwater Case" the following definitions must apply:

- 1) The leak has been stopped and ongoing sources, including free product, have been removed or remediated.
- 2) The site has been adequately characterized.
- 3) The dissolved hydrocarbon plume is not migrating.
- 4) No water well, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted.
- 5) The site presents no significant risk to human health.
- 6) The site presents no significant risk to the environment.

For your information, I have taken over management of this project from Thomas Peacock of this office. Please feel free to call me directly at 510/567-6880 should you have any questions.

Sincerely,



Dale Klettke, CHMM  
Hazardous Materials Specialist

c: Glenn Matteucci, ERI, 359 Bel Marin Keys Blvd., Suite 20, Novato, CA 94949  
Thomas Peacock, LOP Manager--files

*be*  
10681smp.dkt

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
(510) 567-6700

December 27, 1995  
STID 1068

Exxon Co., U.S.A.  
ATTN: Marla Guensler  
P.O.Box 4032  
Concord, CA 94524-2032

RE: Exxon RAS 7-0236, 6630 E. 14th St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed a Quarterly Groundwater Monitoring Report dated November 10, 1995 by Environmental Resolutions Inc. (ERI) concerning the above site. The following comments concern this report:

1. There are no recommendations in this report.
2. The contamination seems to be concentrated around MW-2 and MW-3. Contamination is high in both TPHg and benzene, especially at MW-2. Apparently this is still an operating service station and MW-2 is nearest the underground storage tanks in the downgradient direction.
3. The contamination seems to be well defined. It would seem appropriate for you to propose that some type of remediation be implemented soon. The alternative is to continue monitoring and possibly reducing the number of wells to be monitored.

If you have any questions or comments, please contact this office at 567-6782.

Sincerely,

Thomas Peacock, Manager  
Environmental Protection Division

c: Gordon Coleman, Acting Chief - Files  
MMM Properties, 10 Crest Rd., San Anselmo, CA 94960 ✓  
George Gasper, et al, C/o Vigo Smith, 3939 Walnut Ave. #264,  
Carmichael, CA 95608-2197  
Glenn L. Matteucci, ERI, 359 Bel Marin Blvd., Suite 20,  
Novato, CA 94949

ST 10 1068

**EXXON** COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032

MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENGINEER

(510) 246-8776  
(510) 246-8798 FAX

November 10, 1995

Mr. Thomas Peacock  
Alameda County Health Agency  
Division of Hazardous Materials  
Department of Environmental Health  
1131 Harbor Bay Parkway, #250  
Alameda, CA 94502-6577

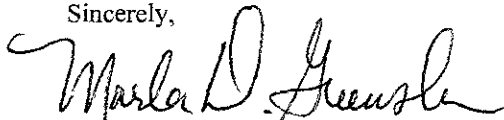
**RE: Exxon RAS #7-0236/6630 East 14th Street, Oakland, CA**

Dear Mr. Peacock:

Attached for your review and comment is a report entitled *Quarterly Groundwater Monitoring Report, Third Quarter 1995* for the above referenced site. This report, prepared by Environmental Resolutions, Inc., (ERI), of Novato, California, details the results of the groundwater monitoring and sampling event which occurred in August 1995.

If you have any questions or comments, please contact me at (510) 246-8776.

Sincerely,



Marla D. Guensler  
Senior Engineer

MDG/dn

attachment: ERI Quarterly Report dated October 20, 1995

cc: w/attachment:

Mr. Lester Feldman - San Francisco Bay RWQCB

w/o attachment

Mr. Marc Briggs - ERI, Novato

NOV 16 1995  
ENVIRONMENTAL  
RECYCLED

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577  
(510) 567-6700

June 5, 1995  
STID 1068

Exxon Co., U.S.A.  
ATTN: Maria Guensler  
P.O.Box 4032  
Concord, CA 94524-2032

RE: Exxon RAS 7 0236, 6630 E. 14th St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed a Quarterly Groundwater Monitoring Report dated April 10, 1995 by ERI concerning the above site. The following comments concern this report:

1. There are no recommendations in this report.
2. The contamination seems to be concentrated around MW-<sup>2</sup> and MW-3. Contamination is high in both TPHg and benzene. Apparently this is still an operating service station.
3. The contamination seems to be well defined. It would seem appropriate for you to propose that some type of remediation be implemented soon.

If you have any questions or comments, please contact this office at 567-6782.

Sincerely,

Thomas Peacock, Supervising HMS  
Environmental Protection Division

cc: Mee Ling Tung, Acting Chief - Files  
MMM Properties, 10 Crest Rd., San Anselmo, CA 94960  
George Gasper, et al, C/o Vigo Smith, 3939 Walnut Ave. #264,  
Carmichael, CA 95608-2197  
Marc Briggs, ERI, 359 Bel Marin Blvd., Suite 20, Novato, CA  
94949

**EXXON** COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-2032

MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENGINEER

(510) 246-8776  
(510) 246-8798 FAX

April 17, 1995

Mr. Thomas Peacock  
Alameda County Health Agency  
Division of Hazardous Materials  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

**RE: Exxon RAS #7-0236/6630 East 14th Street, Oakland, CA**

Dear Mr. Peacock:

Attached for your review and comment is a report entitled *Quarterly Groundwater Monitoring Report, First Quarter 1995* for the above referenced site. This report, prepared by Environmental Resolutions, Inc., (ERI), of Novato, California, details the results of the groundwater monitoring and sampling event which occurred in March 1995.

If you have any questions or comments, please contact me at (510) 246-8776.

Sincerely,



Marla D. Guensler  
Senior Engineer

MDG/jb

attachment: ERI Quarterly Report dated April 10, 1995

cc: w/attachment:  
Mr. Lester Feldman - San Francisco Bay RWQCB

w/o attachment  
K. Romstad - ERI, Navoto

ENVIRONMENTAL  
RESOLUTIONS, INC.  
57 APR 26 PM 2:05



ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs

March 6, 1995  
STID 1068

Exxon Co., U.S.A.  
ATTN: Marla Guensler  
P.O.Box 4032  
Concord, CA 94524-2032

Alameda County CC4580  
Environmental Protection Division  
1131 Harbor Bay Parkway, Room 250  
Alameda CA 94502-6577

RE: Exxon RAS 7-0236, 6630 E. 14th St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed a Quarterly Groundwater Monitoring Reports dated December 15, 1994 and January 18, 1995, by ERI concerning the above site. The following comments concern this report:

1. There are no recommendations in these reports.
2. It is unusual that MW6 would be ND 1 quarter and then have a sheen the next. Please explain this discrepancy or situation.
3. The contamination seems to be well defined. It would seem appropriate for you to propose that some type of remediation be implemented soon.
4. Quarterly reports should arrive at this office in a more timely manner. The cover letters for 2 quarters of work are dated only 1 month apart.

If you have any questions or comments, please contact this office at 567-6782.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Thomas Peacock'.

Thomas Peacock, Supervising HMS  
Environmental Protection Division

cc: Gordon Coleman, Acting Chief - Files  
MMM Properties, 10 Crest Rd., San Anselmo, CA 94960  
George Gasper, et al, C/o Vigo Smith, 3939 Walnut Ave. #264,  
Carmichael, CA 95608-2197  
Marc Briggs, ERI, 359 Bel Marin Blvd., Suite 20, Novato, CA  
94949

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH

September 12, 1994  
STID 1068

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
1131 HARBOR BAY PARKWAY, 2ND FLOOR  
ALAMEDA, CA 94502-6577

Exxon Co., U.S.A.  
ATTN: Marla Guensler  
P.O. Box 4032  
Concord, CA 94524-2032

RE: Exxon RAS 7-0236, 6630 E. 14th St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed a Quarterly Status Report dated June 27, 1994, a Quarterly Groundwater Monitoring Report with cover sheet dated July 15, 1994, and a Letter Report Groundwater Monitoring dated July 26, 1994 by Resna concerning the above site. The following comments concern these reports:

1. It is agreed that excavating contaminated soil in the area of the 2 effected wells is appropriate.
2. It is a good situation that you now have monitoring wells surrounding MW-2 and 3 and that those wells are not currently detecting any contamination.
3. Contamination was detected in MW-4 and this needs to be looked into as it is said to be an upgradient well.
4. Quarterly reports should arrive at this office in a more timely manner. The cover letters for 2 quarters of work are dated only 2 weeks apart.

If you have any questions or comments, please contact this office at 567-6700. Note that we have changed our phone and address.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Thomas Peacock'.

Thomas Peacock, Supervising HMS  
Hazardous Material Division

cc: Edgar Howell, Chief - Files  
MMM Properties, 10 Crest Rd., San Anselmo, CA 94960  
George Gasper, et al, C/o Vigo Smith, 3939 Walnut Ave. #264,  
Carmichael, CA 95608-2197  
Justin Power, Resna, 73 Digital Dr., Novato, CA 94949

**EXXON** COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-2032  
MARKETING DEPARTMENT

FUEL PRODUCTS•BUSINESS SERVICES  
ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENVIRONMENTAL ENGINEER

(510) 246-8776  
(510) 246-8798 FAX

July 15, 1994

HAZMAT  
54 JUL 22 PM 2:02

RP

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

RE: Exxon RAS #7-0236/6630 East 14th Street, Oakland, CA

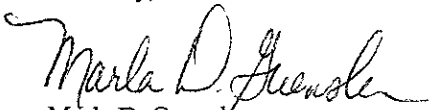
Dear Ms. Chu:

Attached for your review and comment is a report entitled **Groundwater Monitoring Report, First Quarter 1994**, for the above referenced site. This report, prepared by RESNA Industries, Inc., of Novato, California, details the results of the February 1994 groundwater monitoring and sampling event.

It was Exxon's intent to deliver and discuss this report in meetings scheduled with Mr. Scott Seery of your agency in April and May, however, Exxon was unable to attend the meetings as originally scheduled, and another has not been discussed recently. Exxon apologizes for delays in the submittal of this report due to these unusual circumstances.

If you have any questions or comments, please contact me at the above listed phone number.

Sincerely,



Marla D. Guensler  
Senior Environmental Engineer

MDG/mdg

enclosure: RESNA Quarterly Report dated March 31, 1994

cc: w/attachment:  
Mr. Richard Hiatt - San Francisco Bay RWQCB



ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

March 7, 1994  
STID 1068

Exxon Co., U.S.A.  
ATTN: Marla Guensler  
P.O.Box 4032  
Concord, CA 94524-2032

RE: Exxon RAS 7-0236, 6630 E. 14th St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed a Quarterly Status Report dated December 30, 1993, a Quarterly Monitoring Report dated December 23, 1993, and a Supplemental Environmental Investigation dated February 14, 1994 by Resna concerning the above site. The following comments concern these reports:

1. It is agreed that MW-2 and MW-3 have significant contamination. It is further agreed that vapor extraction and pumping groundwater are not appropriate remediation techniques in this case, based on the field tests that were done.
2. It is a good situation that you now have monitoring wells surrounding MW-2 and 3 and that those wells are not currently detecting any contamination.
3. You need to plan on what you will do if the other wells start detecting contamination.
4. You will need to continue monitoring the wells and submitting quarterly reports as in the past. Other than that, there is no reference to what alternative points of compliance may be allowed in this case.

If you have any questions or comments, please contact this office.

Sincerely,

A handwritten signature in cursive script, appearing to read "Thomas Peacock".

Thomas Peacock, Supervising HMS  
Hazardous Material Division

cc: Edgar Howell, Chief - Files  
MMM Properties, 10 Crest Rd., San Anselmo, CA 94960  
George Gasper, et al, C/o Vigo Smith, 3939 Walnut Ave. #264,  
Carmichael, CA 95608-2197  
Justin Power, Resna, 73 Digital Dr., Novato, CA 94949

## MEMORANDUM

DATE: March 1, 1994  
 TO: LOP staff  
 FROM: Scott Seery  
 SUBJ: Meeting to follow-up on status of EXXON-lead investigations

At 10:00 AM on Tuesday, March 8, 1994, I will be meeting with Ms. Marla Guensler of EXXON Corporation to discuss the status of EXXON-lead sites in Alameda County. This meeting is in follow-up to those held during March and September 1993. Following is a minimum list of sites to be discussed. Each were previously covered during both prior meetings.

Please become aware of the status of each site within your districts and either: 1) plan on attending the meeting; or, 2) provide a brief summary regarding the status of the site(s), any concerns you may have, additional work needed, etc., etc. I apologize for the short notice on this.

<u>STID</u>	<u>SITE ADDRESS</u>	<u>SPECIALIST</u>
3601	1725 Park Street, Alameda	JMS
4103	7840 Amador Valley Blvd., Dublin	EC
2692	1175 Catalina Drive, Livermore	EC
515	3450 35th Ave., Oakland	SH
1039	2225 Telegraph Ave., Oakland	JE
1068	6630 E. 12 <sup>y</sup> th Street, Oakland	TP
136	720 High Street, Oakland	BC
1127	8008 Mountain Blvd., Oakland	JMS

Attached is a copy of the memo documenting the results of September's meeting. Please review your cases in context with the summaries presented herein.

I need your input prior to next Tuesday's meeting. Thanks.

## MEMORANDUM

DATE: September 28, 1993

TO: LOP staff

FROM: Scott Seery

SUBJ: EXXON meeting, September 28, 1993

Today I met with Ms. Marla Guensler and Mr. Ernie Villasenor of EXXON Corporation. With them were representatives of their consultant, RESNA Corporation. Today's meeting, the second of a series, was in follow-up to a similar meeting held during March 1993. The status of all EXXON sites with UST investigations/clean-ups, for which ACDEH is the lead oversight agency and EXXON the lead RP, is the topic of this series.

As with the March meeting, the tone and outcome were "up-front," positive, and productive. Following is a summary of the issues discussed, listed by site.

STID	ADDRESS	CASE LEAD
<u>3601</u>	<u>1725 Park Street, Alameda</u>	<u>EXXON</u>

- o downgradient wells (3) installed off-site in May 1993, with two (2) of the three along Park not showing measurable HC impact as of this writing; minor impact (TPH, only) in well located on Eagle
- o informed EXXON of pending tank replacement at Shell station, 1701 Park, approximately 200' upgradient (crossgradient?) of site; EXXON is fairly convinced (read: hopeful) that their site has been impacted by an upgradient source, and that the Shell station appears to them to be the most likely candidate. (I told EXXON that I wasn't convinced of this yet, in the absence of any GW data on property between Shell and EXXON sites, that Shell is a potential contributory source. RESNA feels that the native formation [Merrit Sands?] has sufficient transmissivity to allow dispersion at a level consistent with the impact noted in on-site, upgradient well. I noted that this well and one other are crossgradient of the UST complex, and the impacts noted may just be the result of a fairly flat gradient.)
- o EXXON noted that the 1992 Hydropunch survey found concentrations of HCs adjacent to the Shell site similar to those found adjacent to the EXXON site, making them believe that Shell is a likely contributing source
- o **German Auto Repair** should be evaluated for presence of USTs. Do we currently know of any?
- o discussed potential for utility trenches in Park Ave. to act as conduits for expressing contaminants away, before being intercepted by downgradient, off-site wells. (May need to keep an eye on this.)

4103                      7840 Amador Valley Blvd., Dublin                      EXXON

- o all appears to be on track
- o MTBE discovered recently,; EXXON indicates this additive may be a result of Texaco's activities - claim no knowledge of its use by EXXON
- o downgradient wells have minor hits, but absent aromatics at levels of concern
- o **Close to site closure** - monitor a few more quarters to see if trends continue
- o reduce sampling frequencies in MW-3 and MW-4:  
    MW-3            annual  
    MW-4            semiannual

2602                      1175 Catalina Drive, Livermore                      Texaco?/ EXXON

- o investigation by Texaco before site transfer to EXXON (may have) identified waste oil tank leak [Copy of Texaco's "Exhibit J" report to be reissued.]
- o need to determine ACDEH should also name Texaco as RP for waste oil problem, if leak substantiated
- o EXXON is still RP for fuel problem - **needs to perform PSA**
- o EXXON will look for copies of tank test reports when still under Texaco control (pre 1988)
- o ACDEH needs to try to propagate a productive, integrated approach between Texaco and EXXON if both are required to perform PSAs for their commensurate problems

515                      3450 - 35th Ave., Oakland                      EXXON ?

- o appears to be a minor residual problem - good candidate for closure (?)
- o discussion regarding need to (still) determine whether MW-1 is intercepting the trailing edge of the plume, or is in the heart of it; EXXON will review UST closure report and see if substantial problem was identified in soil at the time. EXXON will propose a Hydropunch survey downgradient of MW-1 should the closure report indicate high concentrations of HCs in soil at the time of closure. Alternatively, EXXON will review the report generated by Texaco prior to property transfer to EXXON. Should this report substantiate that "no problem" was found prior to transfer, EXXON may conclude that the Hydropunch survey is unnecessary
- o EXXON to supply another copy of the Texaco "Exhibit J" report for this site

1039                    2225 Telegraph Ave., Oakland                    Texaco

- o Texaco lead - no updates by EXXON

1068                    6630 East 14th Street, Oakland                    EXXON

- o former Texaco site - EXXON will send another Texaco "Exhibit J" report
- o should noted Texaco report indicate a release during Texaco's tenure, need to identify Texaco as additional RP
- o downgradient well MW-5 had only one "hit" in October 1992, and none since - may be from cross-contamination during sampling
- o same (apparent) occurrence in cross-gradient well MW-7
- o "sheen" found in well MW-2, yet sampled anyway. Low dissolved concentrations (total TPH of 15 ppm) lead RESNA to conclude that sheen was not a result of HCs, but rather some other unknown organic compound. [FP not expected until conc. > 50-100 ppm]
- o SWI work plan for additional on-site assessment to be submitted shortly, which will include 5 borings/Hydropunches with 3 to be converted to SVE test wells

136                    720 High Street, Oakland                    EXXON

- o interceptor trench in design/engineering phase now, and will run along south/SW/west site boundaries. Trench forecast to be completed prior to 1994
- o southern off-site wells still in City of Oakland permitting process
- o treatment of collected GW to (likely) include thermal destruction and GAC polishing prior to discharge. Trench to include vapor extraction plumbing, as well, to address need to remove potential free phase product from trench
- o Timeline to be developed by RESNA
- o upgradient contributory source not considered significant at this time

1127                    8008 Mountain Blvd., Oakland                    EXXON

- o EXXON to supply copies of (copious) pre-April 1992 files
- o EXXON considers this a low priority case - will likely be proposing site closure shortly
- o EXXON will conduct well survey in area to determine if pumping, etc., could explain wild fluctuations in GW levels found in OW-6



ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

StID 1068

January 2, 1994

Justin Power  
RESNA  
73 Digital Drive  
Novato, CA 94949

**Subject: Report for Exxon Station No. 7-0236, 6630 E. 14th St.,  
Oakland 94621**

Dear Mr. Power:

I have completed review of RESNA's October 1993 Work Plan for Supplemental Environmental Investigation, and RESNA's Third Quarter Groundwater Monitoring Report for the above referenced site.

Laboratory analysis of groundwater for nine consecutive quarters confirm monitoring wells MW-2 and MW-3 contain elevated levels of petroleum hydrocarbons. A vapor extraction and step draw down test was recently performed onsite to determine if vapor extraction with pump and treat would be a feasible alternative for cleanup of soil and groundwater contamination. A report documenting this phase of the investigation should be submitted to this office no later than January 30, 1994. Be sure a site plan includes the locations of the vapor wells. A site plan was missing from the above referenced October 1993 Work Plan.

If you have any questions, please contact Mr. Thomas Peacock, Supervising Hazardous Materials Specialist at (510) 271-4530.

Sincerely,

A handwritten signature in cursive script, appearing to read "Eva Chu".

eva chu  
Hazardous Materials Specialist

cc: files

exxon1.1

**EXXON** COMPANY, U.S.A.  
P.O. BOX 4032 • CONCORD, CA 94524-2032  
MARKETING DEPARTMENT

93 OCT 26 AM 11:50

FUEL PRODUCTS•BUSINESS SERVICES  
ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENVIRONMENTAL ENGINEER

(510) 246-8776  
(510) 246-8798 FAX

October 25, 1993

Mr. Tom Peacock  
Alameda County Health Agency  
Division of Hazardous Materials  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

ST 101068

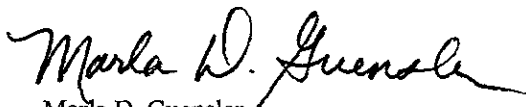
RE: Exxon RAS #7-0236/6630 East 14th Street, Oakland, CA

Dear Mr. Peacock:

Attached for your review and comment is a report entitled **Groundwater Monitoring Report, Third Quarter 1993**, for the above referenced site. This report, prepared by RESNA Industries, Inc., of Novato, California, details the results of the September 1993 groundwater monitoring and sampling results.

If you have any questions or comments, please contact me at the above listed phone number.

Sincerely,



Marla D. Guensler  
Senior Environmental Engineer

MDG/mdg

enclosure: RESNA Quarterly Report dated September 30, 1993

cc: w/attachment:

Mr. Richard Hiatt - San Francisco Bay RWQCB

w/o attachment:

Mr. Michael Siembieda - RESNA Industries, Inc. - Novato

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

September 20, 1993  
STID 1068

Exxon Co., U.S.A.  
ATTN: Marla Guensler  
P.O. Box 4032  
Concord, CA 94524-2032

RE: Exxon RAS 7-0236, 6630 E. 14th St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed a Quarterly Status Report dated July 27, 1993 by Resna concerning the above site. The following comments concern this report:

1. There is no explanation for not testing wells MW-2 or MW-3 because of the sheen. They apparently were not purged or sampled because of the sheen, and no reference was made to whether or not the wells were just left as they were found.
2. This office accepts the planned work as written on an attachment to this report dated June 25, 1993.

We look forward to your next quarterly monitoring report, to be completed in September 1993. If you have any questions or comments, please contact this office.

Sincerely,

A handwritten signature in cursive script, appearing to read "Thomas Peacock".

Thomas Peacock, Supervising HMS  
Hazardous Material Division

cc: Edgar Howell, Chief - Files  
MMM Properties, 10 Crest Rd., San Anselmo, CA 94960  
George Gasper, et al, C/o Vigo Smith, 3939 Walnut Ave. #264,  
Carmichael, CA 95608-2197

**EXXON** COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-2032  
MARKETING DEPARTMENT

93 AUG -9 PM 2: 52

FUEL PRODUCTS•BUSINESS SERVICES  
ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENVIRONMENTAL ENGINEER

(510) 246-8776  
(510) 246-8798 FAX

August 5, 1993

Mr. Tom Peacock  
Alameda County Health Agency  
Division of Hazardous Materials  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, CA 94621

RE: Exxon RAS #7-0236/6630 East 14th Street, Oakland, CA


Dear Mr. Peacock:

Attached for your review and comment is a report entitled Groundwater Monitoring Report for the above referenced site. This report, prepared by RESNA Industries, Inc., of Novato, California, details the results of the ground water monitoring and sampling event which occurred in the Second Quarter 1993.

Hydrocarbon sheens were present in monitoring wells MW-2 and MW-3 for the first time over the history of the site investigation. If sheens are present in the next sampling event, RESNA will submit samples from these two wells for analysis as the current sheens may not be indicative of dissolved hydrocarbon concentrations which are greater than those previously detected (historically below 10,000 ppb), but may indicate a dust residue or other circumstances not previously observed.

If you have any questions, contact me at the above listed phone number.

Sincerely,



Marla D. Guensler  
Senior Environmental Engineer

MDG/mdg

enclosure: Second Quarter 1993, Groundwater Monitoring Report

cc: w/attachment:  
Mr. Richard Hiatt - San Francisco Bay RWQCB

w/o attachment:  
Mr. Gary Pischke - RESNA Industries  
Inc.



DAVID L. ...

W. A. ... DIRECTOR  
ENVIRONMENTAL HEALTH  
Center Board  
Program  
Rm 200  
Oakland, CA 94621  
(910) 271-4530

June 7, 1993  
STID 1068

Exxon Co., U.S.A.  
ATTN: Marla Guensler  
P.O.Box 4032  
Concord, CA 94524-2032

RE: Exxon RAS 7-0236, 6630 E. 14th St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed a Groundwater Monitoring Report dated May 11, 1993 by Resna concerning the above site. The following comments concern this report:

1. Thank you for answering the questions posed in the May 4, 1993 letter from this office.
2. Another Notice of Reimbursement will follow for the change of address for Mr. Gasper.

We look forward to you next quarterly monitoring report, to be completed in June 1993. If you have any questions or comments, please contact this office.

Sincerely,

A handwritten signature in cursive script, appearing to read "Thomas Peacock".

Thomas Peacock, Supervising HMS  
Hazardous Material Division

cc: Richard Hiatt, RWQCB  
Edgar Howell, Chief - Files  
MMM Properties, 10 Crest Rd., San Anselmo, CA 94960  
George Gasper, et al, C/o Vigo Smith, 3939 Walnut Ave. #264,  
Carmichael, CA 95608-2197

Mr. Thomas Peacock  
RE: Exxon RAS #7-0236  
May 11, 1993  
Page 2

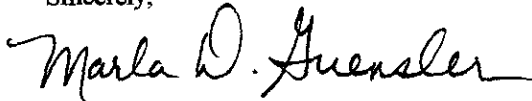
Finally, per your request, Exxon reviewed the local real estate file, and was able to determine the new address for Mr. George Gasper et al, who Exxon understands is listed as a responsible party for the site. Mr. Gasper's new address is as follows:

Mr. George L. Gasper, et al  
c/o Vigo N. Smith  
3939 Walnut Avenue #264  
Carmichael, CA 95608-2197

Exxon has set an internal deadline for all future quarterly monitoring reports to be submitted to your office by the first day of the second month following the quarter the work was completed. This was established with Mr. Scott Seery in an earlier meeting in an attempt by Exxon and RESNA to submit future reports in a timely manner.

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

Sincerely,



Marla D. Guensler

Attachments

C: W/attachments:  
Mr. Richard Hiatt – San Francisco Bay Region CRWQCB

W/o attachments:  
Mr. Gary Pischke – RESNA, Novato, CA

**EXXON** COMPANY, U.S.A.

POST OFFICE BOX 4032 . CONCORD, CA 94524-2032

ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER

SENIOR ENVIRONMENTAL ENGINEER

(510) 246-8776

(510) 246-8798 FAX

ST10 1068

May 11, 1993

Mr. Thomas Peacock  
Alameda County Department of Environmental Health  
Hazardous Materials Division  
80 Swan Way, Room 200  
Oakland, California 94621

Subject: Exxon RAS #7-0236  
6630 East 14th Street  
Oakland, CA

Dear Mr. Peacock:

Attached for your review and comment is a letter report entitled Groundwater Monitoring Report, First Quarter 1993 for the above referenced site. This report, prepared by RESNA Industries, Inc., of Novato, California, details the results of the quarterly groundwater monitoring and sampling event that occurred in March 1993.

In response to your letter to Exxon dated May 4, 1993, please note that the quarterly summary that you received previously is only part of a summary report required by the San Francisco Bay Region of the California Regional Water Quality Control Board. Its intent is to summarize information with regard to each site within the region each quarter, but not to act as the actual quarterly report for each site. (See copy of submittal letter and distribution list dated April 14, 1993.) As such, a registered geologist's or engineer's stamp is not required on each summary, nor are extensive details of circumstances. These items are usually detailed in the quarterly monitoring report, as is done in the attached report.

The project file for this site was transferred to RESNA Industries, Inc., of Novato, California on January 1, 1993. The attached quarterly monitoring report is stamped by a California registered geologist, as will be the case in all reports submitted to your agency.

Monitoring wells MW-2, and MW-3 were not sampled because a sheen was observed on the day of monitoring and sampling. This is shown in the "Subjective" Analysis column of Table 1 in the attached report, and is detailed in the sampling results' table of the summary report. It is current practice of Exxon consultants not to extract samples from monitoring wells that contain separate phase hydrocarbons.

Monitoring well MW-7 was not sampled due to a damaged wellhead cover causing the well to be inaccessible. Again, this is stated in the attached report. This damage will be repaired in the near future so that the well will be accessible for monitoring and sampling events.

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

May 4, 1993  
STID 1068

Exxon Co., U.S.A.  
ATTN: Marla Guensler  
P.O.Box 4032  
Concord, CA 94524-2032

RE: Exxon RAS 7-0236, 6630 E. 14th St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed a Quarterly Status Report dated April 13, 1993 concerning the above site. The following comments concern this report:

1. The consultant has changed from Alton Geoscience to Resna and yet there is no stamp of a registered engineer or geologist and no statement of qualifications.
2. MW-2, MW-3, and MW-7 were not sampled and yet they had the highest levels of contamination. There was no mention of why these wells were not sampled except that MW-7 was damaged.
3. Contamination had been discovered for the first time in the two downgradient wells: MW-5 and MW-7 in November 1992. The significance of Havenscourt Junior High School being across the street and downgradient was not mentioned.

This office would appreciate your discovery of the address of George Casper et al who has been named as a responsible party. His last address was c/o Vigo N. Smith, 1009 Blossom River Wy., #347, San Jose, CA 95123, but the mail gets returned.

We look forward to you next quarterly monitoring report, to be completed in June 1993. If you have any questions or comments, please contact this office.

Sincerely,

Thomas Peacock, Supervising HMS  
Hazardous Material Division

cc: Richard Hiett, RWQCB  
Edgar Howell, Chief - Files  
MMM Properties, 10 Crest Rd., San Anselmo, CA 94960



# EXXON COMPANY, U.S.A.

POST OFFICE BOX 4032 . CONCORD, CA 94524-2032  
ENVIRONMENTAL ENGINEERING

ORIGINAL VIA OVER-NIGHT MAIL

14 April, 1993

RE: First Quarter 1993 Summary Report  
Exxon Company, U.S.A.

Mr. John Kaiser  
California Regional Water Quality Control Board  
San Francisco Bay Region  
2101 Webster Street, Suite 500  
Oakland, California 94612

Dear Mr. Kaiser:

Attached for your review, please find the **First Quarter 1993 Summary Report** for Exxon sites within the jurisdiction of the San Francisco Bay Region of the California Regional Water Quality Control Board. Copies of this report are also being forwarded to local agencies detailed on the attached distribution list.

Exxon initiated a subsurface investigation and/or a monitoring program at the following sites in the first quarter 1993; a copy of the quarterly summary for these sites is included in this quarterly summary report.

1. Former Exxon RAS #7-3297 2710 Alum Rock, San Jose
2. Former Exxon RAS #7-3911 777 Woodside Road, Redwood City

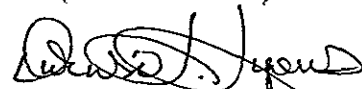
Exxon has received closure on the following sites in the first quarter 1993 and will discontinue including these in future summary reports.

1. Former Exxon RAS #7-0209 499 San Ramon Valley Blvd., Danville
2. Former Exxon RAS #7-8924 26115 Hesperian Blvd., Hayward

Should you have any questions, comments, and/or require additional information, please do not hesitate to contact Marla Guensler at (510) 246-8776, or Darwin Lyons at (510) 246-8768.

Sincerely,

  
Marla D. Guensler

  
Darwin L. Lyons

c - please see attached distribution list

**ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY**



DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

February 26, 1993  
STID 3805

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

Mr. Rich Hiatt  
California Regional Water Quality Control Board  
2101 Webster Street, Suite 500  
Oakland, California 94612

**SUBJECT: RECOMMENDATION FOR CASE CLOSURE  
KING-KNIGHT COMPANY  
6202 Christie Avenue, Emeryville CA 94608**

Dear Mr. Hiatt:

The Alameda County Department of Environmental Health, Hazardous Materials Division has completed review of the case file and the Site Closure Request for the referenced site dated August 11, 1992 and prepared by Century West Engineering Corporation.

Based on the information provided to this department regarding the site investigation and cleanup associated with the two underground storage tanks ( 1,000 gallon diesel and 550 gallon waste oil; both removed on March 1, 1990), it appears that further monitoring, investigation and remedial actions are not necessary at this time. Therefore, this office recommends that RWQCB formally close this case with a signoff letter. With RWQCB's concurrence, this department will send a letter to the Responsible Party to inform them of the site's certification of closure.

Attached is a copy of the Request for Site Closure Report prepared by Century West Engineering for your review.

If you have any questions or require further information, please give me a call at (510) 271-4530.

Sincerely,

*Susan L. Hugo*

Susan L. Hugo  
Senior Hazardous Materials Specialist

attachment

cc: Rafat A. Shahid, Asst. Agency Director, Environmental Health  
Edgar B. Howell, Chief, Hazardous Materials Division - files  
Ms. Christine Noma, Vanco c/o Wendel, Rosen, Black  
P.O. Box 2047, Oakland, CA 94604-2047  
~~Mr. Ivan Williams~~, King Knight Company - 10 Crest Road  
San Anselmo, CA 94960  
Mr. Jim Gribi, Century West Engineering Corporation  
7950 Dublin Blvd., Suite 210, Dublin CA 94568

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



*Returned*

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

February 22, 1993  
STID 1068

Exxon Co., U.S.A.  
ATTN: Marla Guensler  
P.O.Box 4032  
Concord, CA 94524-2032

*MMM Properties  
10 Crest Rd.  
San Anselmo, CA 94960*

RE: Exxon RAS 7-0236, 6630 E. 14th St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed Quarterly Groundwater Monitoring and Sampling Report dated November 13, 1992 concerning the above site. The following comments concern this report:

1. Although there are conclusions there are no recommendations for further action other than continued groundwater monitoring. Although the report was dated as above the cover sheet was dated February 8, 1993, almost 3 months later.
2. With 7 wells on the site it seems that the contamination is fairly well defined. TPHd, TPHg, and BTEX do not seem to be declining in MW-2 and MW-3 and may be increasing. With the high level of contamination present a **remediation plan should be proposed soon for cleaning up the contamination.**
3. Contamination has been discovered for the first time in the two downgradient wells: MW-5 and MW-7. This is especially significant because across the street in the downgradient direction is Havenscourt Junior High School.

We look forward to you next quarterly monitoring report. If you have any questions or comments, please contact this office.

Sincerely,

Thomas Peacock, Supervising HMS  
Hazardous Material Division

cc: Richard Hiett, RWQCB  
Edgar Howell, Chief - Files  
George Gasper et al, C/O Vigo N. Smith, 1009 Blossom River  
Wy 347, San Jose, CA 94621  
MMM Properties, 10 Crest Rd., San Anselmo, CA 94960

ALAMEDA COUNTY  
HEALTH CARE SERVICES  
AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH  
State Water Resources Control Board  
Division of Clean Water Programs  
UST Local Oversight Program  
80 Swan Way, Rm 200  
Oakland, CA 94621  
(510) 271-4530

February 22, 1993  
STID 1068

Exxon Co., U.S.A.  
ATTN: Marla Guensler  
P.O. Box 4032  
Concord, CA 94524-2032

RE: Exxon RAS 7-0236, 6630 E. 14th St., Oakland, CA 94621

Dear Marla Guensler:

This office has received and reviewed Quarterly Groundwater Monitoring and Sampling Report dated November 13, 1992 concerning the above site. The following comments concern this report:

1. Although there are conclusions there are no recommendations for further action other than continued groundwater monitoring. Although the report was dated as above the cover sheet was dated February 8, 1993, almost 3 months later.
2. With 7 wells on the site it seems that the contamination is fairly well defined. TPHd, TPHg, and BTEX do not seem to be declining in MW-2 and MW-3 and may be increasing. With the high level of contamination present a **remediation plan should be proposed soon for cleaning up the contamination.**
3. Contamination has been discovered for the first time in the two downgradient wells: MW-5 and MW-7. This is especially significant because across the street in the downgradient direction is Havenscourt Junior High School.

We look forward to you next quarterly monitoring report. If you have any questions or comments, please contact this office.

Sincerely,

A handwritten signature in cursive script, appearing to read "Thomas Peacock".

Thomas Peacock, Supervising HMS  
Hazardous Material Division

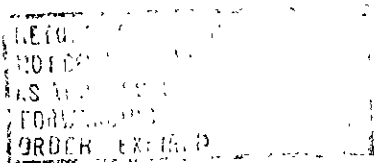
cc: Richard Hiett, RWQCB  
Edgar Howell, Chief - Files *SHD*  
George Gasper et al, C/O Vigo N. Smith, 1009 Blossom River  
Wy 347, San Jose, CA 94621  
MMM Properties, 10 Crest Rd., San Anselmo, CA 94960

ALAMEDA COUNTY  
HEALTH CARE SERVICES AGENCY

Hazardous Materials Program  
80 Swan Way, Rm 200  
Oakland, CA 94621



George Gasper Et Al  
C/O Vigo N. Smith  
1009 Blossom River Wy 347  
San Jose CA 94621



**EXXON** COMPANY, U.S.A.

POST OFFICE BOX 4032 . CONCORD, CA 94524-2032

ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER  
SENIOR ENVIRONMENTAL ENGINEER  
(510) 246-8776

February 8, 1993

ST 10 1068

Mr. Barney Chan  
Alameda County Environmental Health Department  
Hazardous Materials Division  
80 Swan Way, Suite 200  
Oakland, California 94621

RE: EXXON RAS #7-0236, 6630 E. 14TH ST., OAKLAND, CA

Dear Mr. Chan:

Attached for your review and comment is a report entitled, "Quarterly Fluid Level Monitoring and Groundwater Sampling Report", for the above referenced site. The report, prepared by Alton Geoscience, of Pleasanton, California, details the results of the fourth-quarter monitoring event which occurred in October, 1992.

Should you have any questions or comments, or require additional information, please do not hesitate to contact me at the above listed phone number.

Sincerely,



Marla D. Guensler  
Senior Environmental Engineer

MDG/pdp

3063E

Attachment

cc: w/attachment  
Mr. R. Hiatt - San Francisco Regional WQCB

w/o attachment  
Mr. D. Higgins - RESNA, San Jose, CA



March 20, 1992

Mr. Craig A. Mayfield  
Water Resources Engineer  
Alameda County Flood Control  
5997 Parkside Drive  
Pleasanton, California 94588

30-0491

Subject: Ground Water Monitoring Well Installation at 6630 East  
14th Street, Oakland, California.  
Drilling Permit #91693

Dear Mr. Mayfield:

Alton Geoscience has been retained by Exxon Oil Company, USA to conduct ground water investigation activities at Exxon Station No. 7-0236 located at 6630 East 14th Street in Oakland, California.

This letter is in response to your request for a well construction report for the above mentioned site. Due to various delays in obtaining encroachment and excavation permits for this site, work has been rescheduled from January 14 to March 26, 1992. Mr Wyman Hong was notified of this change in schedule via a telephone conversation on 3/20/92.

We apologize for not notifying you of these delays and change in schedule sooner. The well construction report shall be sent to your office at the completion of well installation activities.

If you have any questions or need additional information, please call at (510) 734-8134.

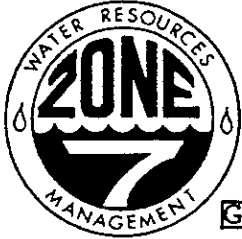
Sincerely,

ALTON GEOSCIENCE

A handwritten signature in cursive script, appearing to read 'Dale Swain'.

Dale Swain  
Staff Scientist

Enclosures



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94566 (415) 484-2600

GROUNDWATER PROTECTION ORDINANCE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

(1) LOCATION OF PROJECT 6630 East 14th St. Oakland CA

PERMIT NUMBER 91693

LOCATION NUMBER

(2) CLIENT Name EXXON Company U.S.A. Address 1200 Smith St. Suite 2726 Houston, TX Zip 77002

PERMIT CONDITIONS

Circled Permit Requirements Apply

(3) APPLICANT Name AITON GEOScience Address 5870 Stoneridge Dr. #6 Pleasanton Phone 734-8134 Zip 94588

(A) GENERAL

- 1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects. 3. Permit is void if project not begun within 90 days of approval date.

(4) DESCRIPTION OF PROJECT Water Well Construction Geotechnical Investigation Cathodic Protection General Well Destruction Contamination Monitoring

(B) WATER WELLS, INCLUDING PIEZOMETERS

- 1. Minimum surface seal thickness is two inches of cement grout placed by tremie. 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic, irrigation, and monitoring wells unless a lesser depth is specially approved.

(5) PROPOSED WATER WELL USE Domestic Industrial Irrigation Municipal Monitoring X Other

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

(6) PROPOSED CONSTRUCTION Drilling Method: Mud Rotary Air Rotary Auger Cable Other

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

DRILLER'S LICENSE NO. C-57 NO. 554979

WELL PROJECTS Drill Hole Diameter 8 in. Maximum Casing Diameter 2 in. Depth 50 ft. Surface Seal Depth 10 ft. Number 4

GEOTECHNICAL PROJECTS Number of Borings Maximum Hole Diameter in. Depth ft.

(7) ESTIMATED STARTING DATE 3-26-92 ESTIMATED COMPLETION DATE 3-31-92

(8) I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wyman Hong Date 11 Dec 91

APPLICANT'S SIGNATURE Date 3-19-92



DATE: 3-25-92  
TO : Local Oversight Program  
FROM: BRIT JOHNSON  
SUBJ: Transfer of Eligible Oversight Case

Site name: EXXON STATION  
Address: 6630 E 14TH ST city DAK zip 94621  
Closure plan attached? Y  N DepRef remaining \$ 0  
DepRef Project # 1843 STID #(if any) 1068  
Number of Tanks: \_\_\_\_\_ removed? Y  N Date of removal \_\_\_\_\_  
Leak Report filed?  Y N Date of Discovery 4/1/91  
Samples received?  Y N Contamination: SOIL & GW  
Petroleum  Y N Types: Avgas Jet leaded unleaded Diesel  
fuel oil waste oil kerosene solvents  
Monitoring wells on site 3 Monitoring schedule?  Y N  
LUFT category 1 2 3 \* H S C A R W G O

Briefly describe the following:  
Preliminary Assessment 3 MW INSTALLED TPH-GAS HIGH AS  
Remedial Action PROPOSING TO INSTALL 4 MORE MWs 3.1 mg/L  
Post Remedial Action Monitoring \_\_\_\_\_  
Enforcement Action \_\_\_\_\_

4/91 3 MW'S INSTALLED AS PART OF A SITE INVESTIGATION DONE CONNCTED WITH THE PROPOSAL SALE OF THE PROPERTY  
3 GASOLINE PRODUCT USTs  
1 WASTE OIL UST

SOURCE HAS NOT BEEN DETERMINED BUT CONTAMINATION IS TPH-G & BTEX

CITY OF OAKLAND



CITY HALL • ONE CITY HALL PLAZA • OAKLAND, CALIFORNIA 94612

Office of Public Works

January 9, 1992

TDD 839-6451

ALTON GEOSCIENCE, INC.  
c/o MWM Properties  
1000 Brunell Avenue, Suite 140  
CONCORD, CA. 94520  
ATTN: Matthew A. Taylor

RE: Encroachment Permit for 6630 East 14th Street

Dear Mr Taylor:

Enclosed for your execution is a Minor Encroachment Permit and Agreement pursuant to your request to construct three(3) groundwater monitoring wells along the street right-of-ways of East 14th and 66th Streets adjacent to the above referenced address.

Before the permit will become effective, however, it must be signed by the person(s) having the legal authority to do so, properly notarized with the acknowledgement attached and returned to this office for recordation. In addition, the insurance certificate that was sent along with the request for a minor encroachment requires additional clauses. Attached for your uses is a copy of the required clauses, and the incomplete insurance certificate, that must be written into the insurance certificate and a copy returned to this office.

You must also obtain a street excavation permit from the Development Services Department, 1330 Broadway, 2nd Floor, Oakland, California 94612, prior to the start of the proposed work in the City right-of-way.

If you have any questions, please call Dexter Hom at 273-2259.

Sincerely,

TERRY E. ROBERTS  
Director of Public Works

by *T. E. Roberts*  
for PHILIP A. GRUBSTICK  
Engineering Services Manager

attachments

City of Oakland  
Director of Public Works  
1333 Broadway, 8th Floor  
Oakland, Ca. 94612

When Recorded Mail To:

Director of Public Works  
City of Oakland  
1333 Broadway, 8th Floor  
Oakland, Ca. 94612

TAX ROLL PARCEL NUMBER  
(Assessor's Reference Number)

039	3246	027	01	Space Above for Recorder's Use
MAP	BLOCK	PARCEL	SUB	

Address: 6630 East 14th Street

MINOR ENCROACHMENT PERMIT AND AGREEMENT

Alton GeoScience, Inc. acting on behalf of MWM Properties, a California Partnership, owner of certain real property described in the Quitclaim Deed, recorded on September 19, 1988, in Series No. 88-237261, in the office of the Recorder, Alameda, County, California, is hereby granted a Conditional Revocable Permit to encroach into the street area of East 14th Street and 66th Street with three(3) monitoring well. The location of said encroachment and type of casting and cover used shall be as delineated in Exhibits 'A' and 'B' attached hereto and made a part hereof.

The permittee agrees to comply with and be bound by the conditions for granting an Encroachment Permit attached hereto and made a part hereof.

This agreement shall be binding upon the undersigned, the present owner(s) of the property described above, and their successors in interest thereof.

In witness whereof we have set our signature(s) this \_\_\_\_\_ day of \_\_\_\_\_, 1992.

By: Matthew A. Taylor  
Matthew A. Taylor, C.E.  
Alton GeoScience, Inc.

Dated: 01/31/92

By: \_\_\_\_\_  
RANDALL A. LUM  
Deputy Director

For  
TERRY E. ROBERTS  
Director of Public Works

City of Oakland  
Director of Public Works  
1333 Broadway, 8th Floor  
Oakland, Ca. 94612

When Recorded Mail To:

Director of Public Works  
City of Oakland  
1333 Broadway, 8th Floor  
Oakland, Ca. 94612

TAX ROLL PARCEL NUMBER  
(Assessor's Reference Number)

039	3246	027	01
MAP	BLOCK	PARCEL	SUB

Space Above for Recorder's Use

Address: 6630 East 14th Street

**CORPORATE ACKNOWLEDGMENT**

NO. 202

State of California  
County of Sacramento } SS.

On this the 31<sup>st</sup> day of January, 1992, before me,

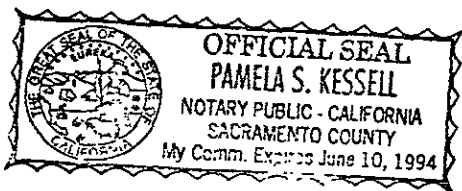
Pamela S. Kessell  
the undersigned Notary Public, personally appeared

Matthew A. Taylor

personally known to me  
 proved to me on the basis of satisfactory evidence  
to be the person(s) who executed the within instrument as  
Civil Engineer or on behalf of the corporation therein  
named, and acknowledged to me that the corporation executed it.

WITNESS my hand and official seal.

Pamela S. Kessell  
Notary's Signature



7120 122

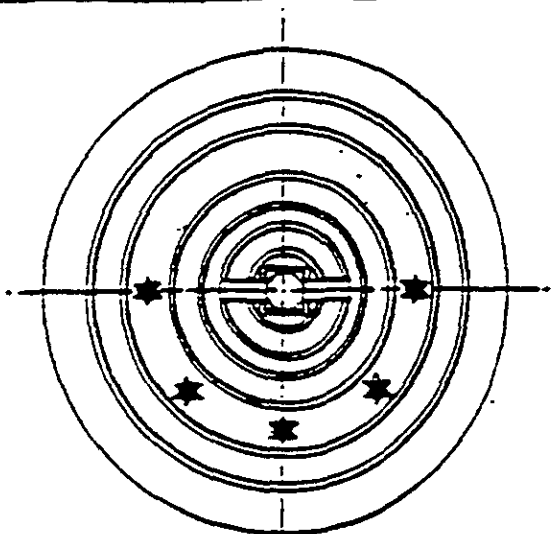
NATIONAL NOTARY ASSOCIATION • 23012 Ventura Blvd. • P.O. Box 4625 • Woodland Hills, CA 91365-4625

Dated: 01/31/92

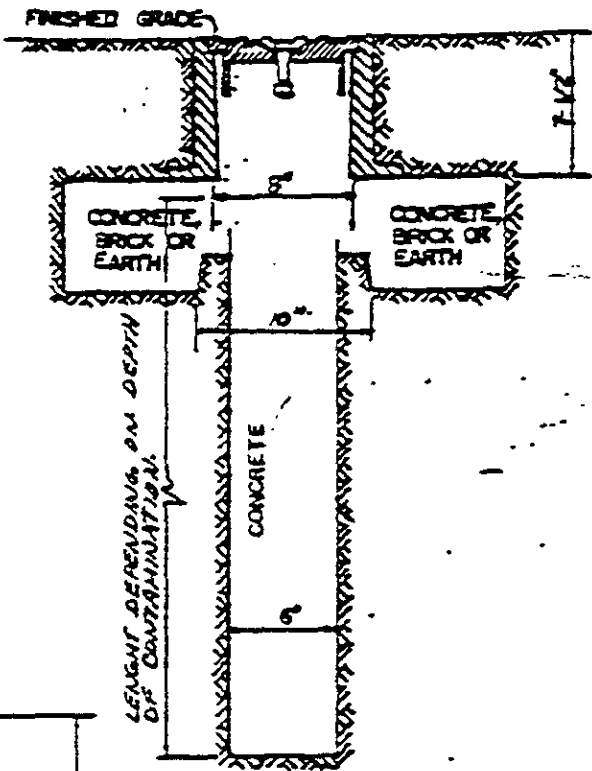
By: Matthew A. Taylor  
Matthew A. Taylor, C.E.  
Alton GeoScience, Inc.

By: \_\_\_\_\_  
RANDALL A. LUM  
Deputy Director

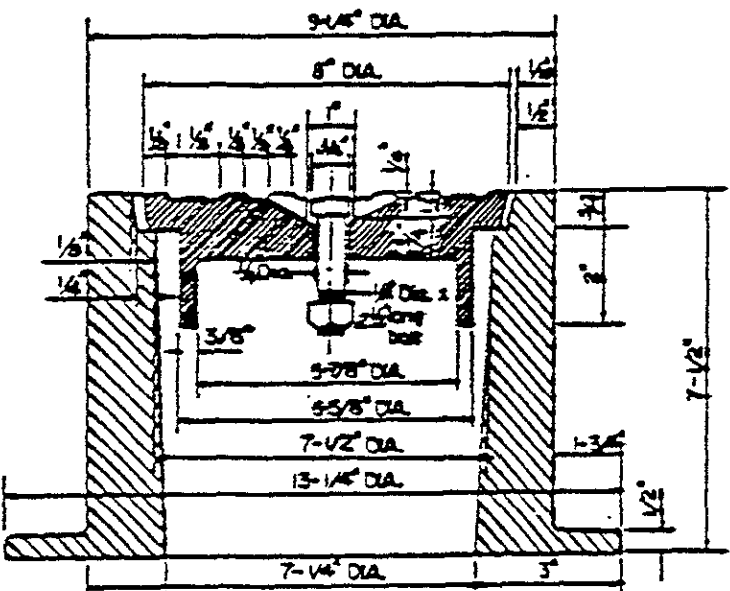
For  
TERRY E. ROBERTS  
Director of Public Works



PLAN OF CASTING



SECTION OF WELL CASE



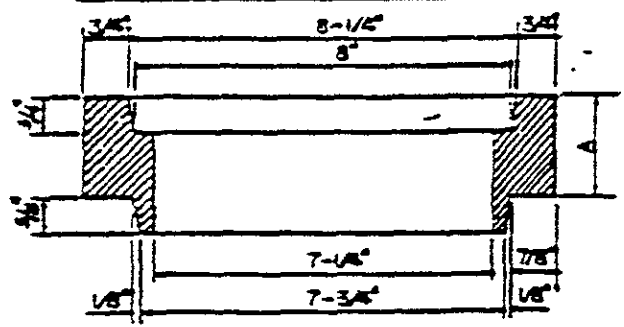
SECTION OF CASTING

NOTE:

ALL DIMENSIONS TO BE ACCURATE WITHIN 1/16 INCH.

APPROXIMATE WEIGHTS:

FRAME = 59.5 LBS.  
COVER = 15.5 LBS.



A = 1/2", 2", 2-1/2", OR 3"  
SECTION OF RISER RINGS

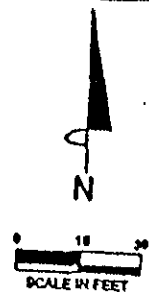
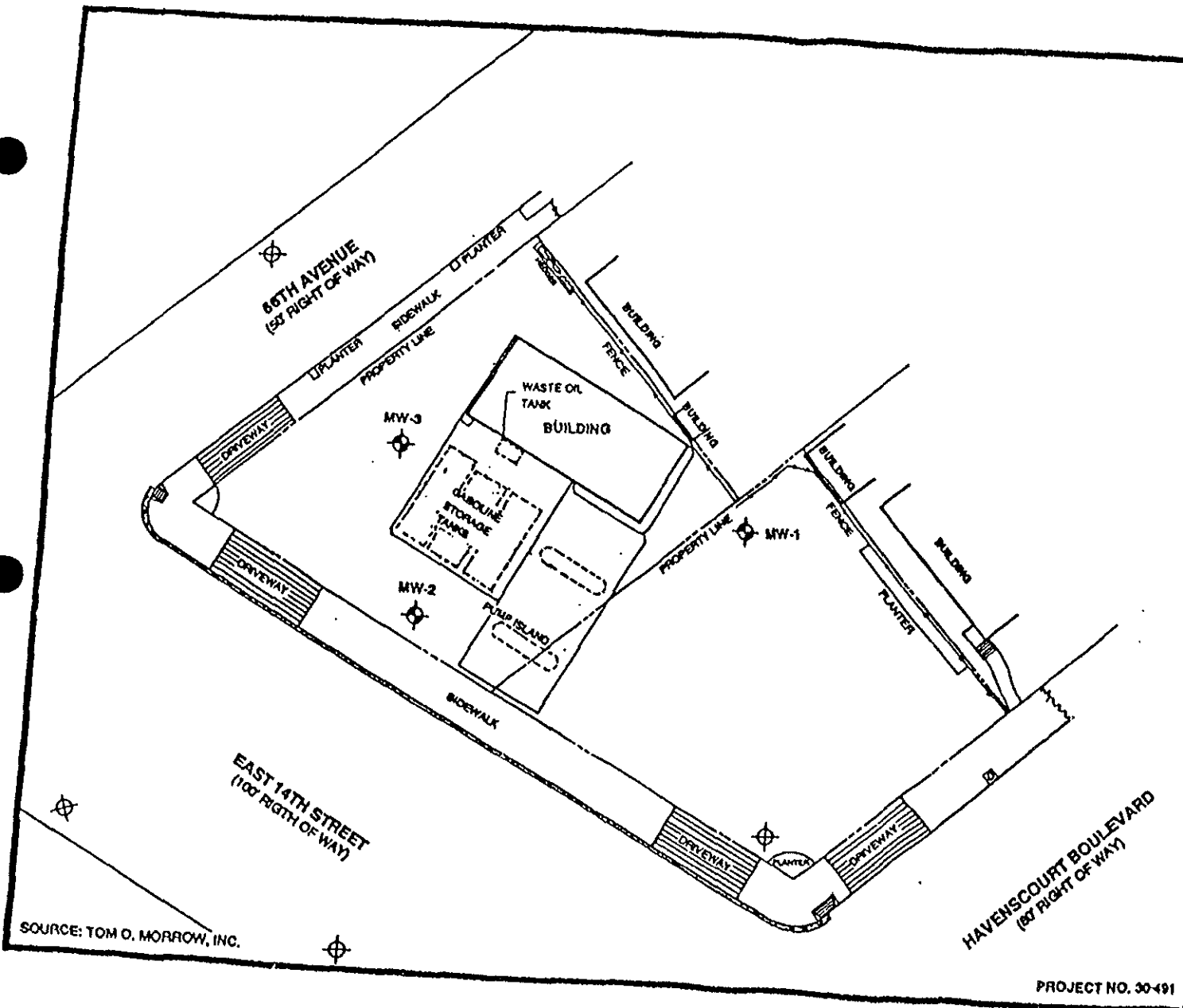
CITY OF OAKLAND | ENGINEERING AND DESIGN SERVICES DIVISION





EXHIBIT "A"  
WELL CASING




*[Signature]*  
SEAL OF THE CITY OF OAKLAND  
OFFICE OF THE CITY ENGINEER  
DATE: \_\_\_\_\_  
BY: \_\_\_\_\_  
OFFICIAL:



- LEGEND:
-  GROUND WATER MONITORING WELL
  -  PROPOSED MONITORING WELL WITHIN THE STREET PAVEMENT.

*Exhibit - "B"*  
 FIGURE 1: SITE PLAN

EXXON COMPANY, U.S.A.  
 SERVICE STATION NO. 7 - 0236  
 6630 EAST 14TH STREET  
 OAKLAND, CALIFORNIA

 **ALTON GEOSCIENCE**  
 1000 Burnett Ave., Ste. 140  
 Concord, CA 94520

SOURCE: TOM O. MORROW, INC.

PROJECT NO. 90-491

TO: Alton Geoscience  
c/o MWM Properties  
Attn: Matthew A. Taylor

ADDRESS: 1000 Burnell Avenue, Suite 140  
Concord, California 94520

RE: Groundwater Monitoring Wells Encroachment at 6630  
East 14th Street, Oakland, Ca.

CONDITIONS FOR GRANTING A MINOR ENCROACHMENT PERMIT

1. That this permit shall be revocable at the pleasure of the Director of Public Works.
2. That the permittee, by the acceptance, either expressed or implied, of the minor encroachment permit hereby disclaims any right, title, or interest in or to any portion of the public sidewalk or street area, and agrees that said temporary use of said area does not constitute an abandonment on the part of the City of Oakland of any of its rights for street purposes and otherwise.
3. The permittee shall maintain in force and effect at all times that said encroachment occupies said public sidewalk area, good and sufficient public liability insurance in the amount of \$300,000 for each occurrence, and property damage insurance in the amount of \$50,000 for each occurrence, both including contractual liability insuring the City of Oakland against any and all claims arising out of the existence of said encroachment in said sidewalk area, and that a certificate of such insurance and subsequent notices of the renewal thereof, shall be filed with the Director of Public Works of the City of Oakland, and that such certificate shall state that said insurance coverage shall not be canceled or be permitted to lapse without thirty (30) days written notice to said Director of Public Works. The Permittee also agrees that the City may review the type and amount of insurance required of the Permittee every five (5) years and may require the permittee to increase the amount of and/or change the type of insurance coverage required.
4. That the permittee, by the acceptance, either expressed or implied, of this revocable permit shall be solely and fully responsible for the repair or replacement of any portion or all of said improvements in the event that said improvements shall have failed or have been damaged to the extent of creating a menace or of becoming a hazard to the safety of the general public; and that the permittee shall be liable for the expenses connected therewith.

5. That upon the termination of the permission herein granted, permittee shall immediately remove said encroachment from the sidewalk and street area, and any damage resulting therefrom shall be repaired to the satisfaction of the Director of Public Works.
6. That the permittee shall file with the City of Oakland for recordation a Minor Encroachment Permit and Agreement, and shall be bound by and comply with all the terms and conditions of said permit.
7. That said Minor Encroachment Permit and Agreement shall take effect when all the conditions hereinabove set forth shall have been complied with to the satisfaction of the Director of Public Works, and shall become null and void upon the failure of the permittee to comply with all conditions hereinabove set forth.
8. That said permittee shall obtain an excavation permit prior to construction and a separate excavation permit prior to the removal of the ground water monitoring wells.
9. That said permittee shall provide to the City of Oakland an AS BUILT plan showing the actual location of the ground water monitoring wells and the results of all data collected from the monitoring wells.
10. That said permittee shall remove the monitoring well and repair any damage to the street area in accordance with City standards two (2) years after construction or as soon as monitoring is complete.
11. That said permittee shall notify the Office of Public Works after the monitoring well is removed and the street area restored to initiate the procedure to rescind the minor encroachment permit.



# CITY OF OAKLAND

## PERMIT TO EXCAVATE IN STREETS OR OTHER WORK AS SPECIFIED

LOCATION OF WORK: \_\_\_\_\_ BETWEEN \_\_\_\_\_ AND \_\_\_\_\_  
(Street or Address) (Street/Ave) (Specify)

PERMISSION TO EXCAVATE IN THE PUBLIC RIGHT-OF-WAY IS HEREBY GRANTED TO:

APPLICANT \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE #: \_\_\_\_\_

TYPE OF WORK: GAS \_\_\_\_\_ ELECTRIC \_\_\_\_\_ WATER \_\_\_\_\_ TELEPHONE \_\_\_\_\_ CABLE TV \_\_\_\_\_ SEWER \_\_\_\_\_ OTHER \_\_\_\_\_  
(Specify)

NATURE OF WORK: \_\_\_\_\_

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than \$500):

I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7004.4, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption in this subdivision on more than two structures more than once during any three-year period (Sec. 7044, Business and Professions Code).

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code. The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).

I am exempt under Sec. \_\_\_\_\_, B&P.C. for this reason \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

PERMIT VOID 90 DAYS FROM DATE OF ISSUE UNLESS EXTENSION GRANTED BY DIRECTOR OF PUBLIC WORKS.

Approximate Starting Date DATE \_\_\_\_\_

Approximate Completion Date DATE \_\_\_\_\_

HOLIDAY RESTRICTION (1 NOV - 1 JAN) YES \_\_\_\_\_ NO \_\_\_\_\_

LIMITED OPERATION AREA (7AM - 9AM/4PM - 6PM) YES \_\_\_\_\_ NO \_\_\_\_\_

DATE STREET LAST RESURFACED DATE 11

SPECIAL PAVING DETAIL REQUIRED YES \_\_\_\_\_ NO \_\_\_\_\_

24-HOUR EMERGENCY PHONE NUMBER \_\_\_\_\_ PERMIT NOT VALID WITHOUT 24 HOUR NUMBER.

Telephone 273-3668 Forty-eight (48) HOURS BEFORE ACTUAL CONSTRUCTION.

### ATTENTION

State law requires that contractor/owner call Underground Service Alert two working days before excavating to have below-ground utilities located. This permit is not valid unless applicant has secured an inquiry identification number issued by Underground Service Alert.

Call Toll Free: 800-642-2444 USA ID Number \_\_\_\_\_

This permit issued pursuant to all provisions of Chapter 6, Article 2 of the Oakland Municipal Code

This permit is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance.

### CONTRACTOR

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect. 554777

LICENSE # AND CLASS \_\_\_\_\_ CITY BUSINESS TAX # \_\_\_\_\_

X \_\_\_\_\_ Date 12/26/91

Agent for  Contractor  Owner

OFFICIAL  
UTILITY CO

Supervisor \_\_\_\_\_

Completion Date \_\_\_\_\_

CITY INSPE  
B/

Initials \_\_\_\_\_

Hours \_\_\_\_\_

Date \_\_\_\_\_

Concrete \_\_\_\_\_

Asphalt \_\_\_\_\_

Sidewalk \_\_\_\_\_

Size of Cut: Sq. Ft. \_\_\_\_\_ Inches \_\_\_\_\_

Paved by \_\_\_\_\_ Type \_\_\_\_\_

Bill No. \_\_\_\_\_

Charges Backfill \_\_\_\_\_

Paving \_\_\_\_\_

Paving Insp. \_\_\_\_\_

Traffic Striping Replaced \_\_\_\_\_

Date \_\_\_\_\_

APPROVED \_\_\_\_\_

Engineering Services \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_ Date \_\_\_\_\_

Field Services \_\_\_\_\_ Date \_\_\_\_\_

Construction \_\_\_\_\_ Date \_\_\_\_\_

Traffic Engineering \_\_\_\_\_ Date \_\_\_\_\_

Electrical Engineering \_\_\_\_\_ Date \_\_\_\_\_

DIRECTOR OF PUBLIC WORKS

APPROVED BY: \_\_\_\_\_

DATE: 12/26/91

EXTENSION GRANTED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

OWNER/BUILDER

WORKER'S COMPENSATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation insurance, or a certified copy thereof (Sec. 3800, Lab C).

Policy # 11678911-41 Company Name Ind. Fund

Certified copy is hereby furnished.

Certified copy is filed with the city building inspection dept.

Signature \_\_\_\_\_ Date 12/26/91

(This section need not be completed if the permit is for one hundred dollars (\$100) or less)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Signature \_\_\_\_\_ Date 12/26/91

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith imply with such provisions or this permit shall be deemed revoked.

# CITY OF OAKLAND

## PERMIT TO EXCAVATE IN STREETS OR OTHER WORK AS SPECIFIED

LOCATION OF WORK: \_\_\_\_\_ BETWEEN \_\_\_\_\_ AND \_\_\_\_\_  
(Street or Address) (Street/Ave.) (Specify)

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APPLICANT \_\_\_\_\_

ADDRESS \_\_\_\_\_ PHONE #: \_\_\_\_\_

TYPE OF WORK: GAS \_\_\_\_\_ ELECTRIC \_\_\_\_\_ WATER \_\_\_\_\_ TELEPHONE \_\_\_\_\_ CABLE TV \_\_\_\_\_ SEWER \_\_\_\_\_ OTHER \_\_\_\_\_  
(Specify)

NATURE OF WORK: \_\_\_\_\_

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I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec 70044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption in this subdivision on more than two structures more than once during any three-year period (Sec. 7044, Business and Professions Code).

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License Law).

I am exempt under Sec. \_\_\_\_\_, B&P.C. for this reason \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

PERMIT VOID 90 DAYS FROM DATE OF ISSUE UNLESS EXTENSION GRANTED BY DIRECTOR OF PUBLIC WORKS.

Approximate Starting Date \_\_\_\_\_ DATE \_\_\_\_\_

Approximate Completion Date \_\_\_\_\_ DATE \_\_\_\_\_

HOLIDAY RESTRICTION (1 NOV - 1 JAN) YES \_\_\_\_\_ NO \_\_\_\_\_

LIMITED OPERATION AREA (7AM - 9AM/4PM - 6PM) YES \_\_\_\_\_ NO \_\_\_\_\_

DATE STREET LAST RESURFACED \_\_\_\_\_ DATE \_\_\_\_\_

SPECIAL PAVING DETAIL REQUIRED YES \_\_\_\_\_ NO \_\_\_\_\_

24-HOUR EMERGENCY PHONE NUMBER \_\_\_\_\_ PERMIT NOT VALID WITHOUT 24 HOUR NUMBER.

Telephone 273-3668 Forty-eight (48) HOURS BEFORE ACTUAL CONSTRUCTION.

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Call Toll Free: 800-642-2444 USA ID Number \_\_\_\_\_

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This permit is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance.

### CONTRACTOR

I hereby affirm that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

LICENSE # AND CLASS \_\_\_\_\_ CITY BUSINESS TAX # \_\_\_\_\_

X \_\_\_\_\_ Date 12/26/91

Signature of Contractor Owner or Agent \_\_\_\_\_

Agent for  Contractor  Owner

### OFFICIAL UTILITY COMP.

Supervisor \_\_\_\_\_

Completion Date \_\_\_\_\_

### CITY INSPECTOR

BACKP

Initials \_\_\_\_\_

Hours \_\_\_\_\_

Date \_\_\_\_\_

Concrete \_\_\_\_\_

Asphalt \_\_\_\_\_

Sidewalk \_\_\_\_\_

Size of Cut: Sq. Ft. \_\_\_\_\_ Inches \_\_\_\_\_

Paved by \_\_\_\_\_ Type \_\_\_\_\_

Bill No. \_\_\_\_\_

Charges Backfill \_\_\_\_\_

Paving \_\_\_\_\_

Paving Insp \_\_\_\_\_

Traffic Striping Replaced \_\_\_\_\_

Date \_\_\_\_\_

### APPROVED

Engineering Services \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_ Date \_\_\_\_\_

Field Services \_\_\_\_\_ Date \_\_\_\_\_

Construction \_\_\_\_\_ Date \_\_\_\_\_

Traffic Engineering \_\_\_\_\_ Date \_\_\_\_\_

Electrical Engineering \_\_\_\_\_ Date \_\_\_\_\_

### DIRECTOR OF PUBLIC WORKS

APPROVED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

EXTENSION GRANTED BY: \_\_\_\_\_

DATE: \_\_\_\_\_

OWNER/BUILDER

WORKER'S COMPENSATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Workers' Compensation Insurance, or a certified copy thereof (Sec 3800, Lab C).

Policy # 1167891-91 Company Name State of CA

Certified copy is hereby furnished.

Certified copy is filed with the city building inspection dept.

Signature \_\_\_\_\_ Date 12/26/91

(This section need not be completed if the permit is for one hundred dollars (\$100) or less.)

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Workers' Compensation Laws of California.

Signature \_\_\_\_\_ Date 12/26/91

NOTICE TO APPLICANT. If, after making this Certificate of Exemption, you should become subject to the Workers' Compensation provisions of the Labor Code, you must forthwith imply with such provisions or this permit shall be deemed revoked.

**EXXON COMPANY, U.S.A.**

P.O. BOX 4415-HOUSTON, TEXAS 77210-4415

MARKETING DEPARTMENT  
REAL ESTATE & ENGINEERING

ENVIRONMENTAL ENGINEERING

C. G. WOOLFORD  
ASSOCIATE ANALYST

91/0702 DWB: 54

4/25/91

May 1, 1991  
Property Transfer Environmental Investigation  
Exxon Retail Store # 7-0236  
6630 East 14th Street  
Oakland, CA 94621

Mr. Rafat Shahid  
Alameda County Department of Environmental Health  
470 27th Street, Room 324  
Oakland, California 94612

Dear Mr. Shahid:

Attached is a Property Transfer Environmental Investigation prepared by our consultants, Alton Geoscience, for the above referenced location. Exxon plans to sell this property in the near future and therefore conducted the investigation.

The investigation consisted of drilling 3 borings and installing groundwater monitor wells, collecting soil and groundwater samples from each of these wells and establishing groundwater levels. Groundwater flows in an apparent southerly direction. Analysis of the soil sample indicate BTEX ranging from non-detect to 0.074 benzene, 0.018 ppm toluene, 0.24 ppm ethylbenzene and .19 ppm xylene; TPHg ranged from non-detect to 98 ppm. Groundwater samples contained low levels of petroleum hydrocarbon constituents (between less than 0.3 ppb and 190 ppb benzene). TPHg ranged from non-detect to 3,100 ppb; TPHd from non-detect to 160 ppb; methylene chloride from 1 to 21 ppb.

*South westerly direction*

Additional assessment will be ordered to further delineate the extent of the plume. Upon completion, a report will be submitted to the state. *When, and what is going to be done?* Should any questions arise concerning this project, please contact Mr. Gary D. Gibson at (415) 246-8768, as he will be handling this file now.

Very truly yours,

*Carly Woolford*

CGW  
5273D  
Attachment

c- w/o attachment:  
Mr. D. J. Bertoch  
Mr. P. J. Brininstool  
Mr. J. D. Doehring

Mr. G. D. Gibson  
Mr. J. R. Hastings  
~~Mr. Matt Hopwood - Alton Geoscience~~  
Mr. Richard Hiatt - SF Bay Region WQCB  
800 Harrison, Ste. 700, Oakland, CA 94612

1. Who's buying property?
2. When is more work to be done?
3. Was report needed or completed?
4. Who's priority?
5. Investigate down? (Advent of records)
6. Report to RWQCB?

**EXXON** COMPANY, U.S.A.

POST OFFICE BOX 4032 • CONCORD, CA 94524-2032

ENVIRONMENTAL ENGINEERING

G. D. GIBSON  
SENIOR ENVIRONMENTAL ENGINEER

April 3, 1991

Exxon RAS 7-0236  
6630 East 14th Street  
Oakland, California

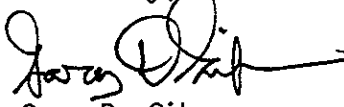
Mr. Barry Chan  
Alameda County Environmental Health Department  
Hazardous Materials Division  
80 Swan Way, Suite 200  
Oakland, California 94621

Dear Mr. Chan:

Attached, per the telephone conversation between Ms. Candy Woolford of Exxon and Mr. Paul Smith of your office, is the Underground Storage Tank Unauthorized Release (Leak)/Contamination Report for the above referenced Exxon Company, U.S.A. facility in the City of Oakland. Three monitoring wells were recently installed at this site as part of a "pre-divestment" investigation. The analytical results showed low levels of dissolved gasoline (3.1 ppm TPHg) in the sample obtained from MW-3. The cause and extent are unknown at this time. Further investigative work, to include the removal of all underground tanks and product lines as part of the site divestment, will be done in the near future.

Should you have any comments or concerns please contact me at (415) 246-8768. Thank you.

Sincerely,



Gary D. Gibson

GDG:hs  
0410E  
Attachments

c - w/o attachment:

Mr. D. J. Bertoch  
Mr. P. J. Brininstool  
Mr. L. Feldman - San Francisco Bay Region Water Quality Control Board  
Mr. J. R. Hastings  
Mr. A. Sevilla - Alton Geoscience  
Ms. C. Woolford

91 APR -5 11:19:32

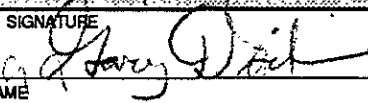
# UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE. <i>Cynthia Chapman</i> 4/8/91 SIGNED _____ DATE _____	
REPORT DATE 0 <u>4</u> / 0 <u>3</u> / 9 <u>1</u>		CASE # _____			
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT Gary D. Gibson		PHONE (415) 246-8768		SIGNATURE <i>Gary D. Gibson</i>
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER _____		COMPANY OR AGENCY NAME Exxon Company U.S.A.		
	ADDRESS 2300 Clayton Road, Suite 490 Concord Calif. 94520				
RESPONSIBLE PARTY	NAME Exxon Company U.S.A. <input type="checkbox"/> UNKNOWN		CONTACT PERSON C & M Center		PHONE (800) 992-3647
	ADDRESS P.O. Box 4415 Houston, TX Texas 77210				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) Exxon RAS #7-0236		OPERATOR Isaiah Lane		PHONE (415) 568-0947
	ADDRESS 6630 East 14th Street Oakland Alameda 94612				
	CROSS STREET 66th Avenue				
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME Alameda County Health Agency		CONTACT PERSON Mr. Barry Chan		PHONE (415) 271-4320
	REGIONAL BOARD San Francisco Bay Region #2		CONTACT PERSON Mr. Lester Feldman		PHONE (415) 464-1255
SUBSTANCES INVOLVED	(1) NAME Gasoline Motor Fuel				QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
	(2) _____				<input type="checkbox"/> UNKNOWN
DISCOVERY/ABATEMENT	DATE DISCOVERED 0 <u>4</u> / 0 <u>1</u> / 9 <u>1</u>		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input checked="" type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER _____		
	DATE DISCHARGE BEGAN ____ / ____ / ____ <input checked="" type="checkbox"/> UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> OTHER _____		
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE ____ / ____ / ____				
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER _____		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER _____		
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input checked="" type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input checked="" type="checkbox"/> OTHER (OT) <u>Remove all UST's &amp; lines</u>				

COMMENTS  
Alameda County Health Agency notified by telephone 4/2/91. Analytical results of groundwater from recently installed monitoring well showed low levels of ~~xxx~~ TPH as gasoline. (3.1 ppm TPHg). Discovered during divestment investigation. Tanks & lines

# UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK) / CONTAMINATION SITE REPORT

1068

EMERGENCY <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		FOR LOCAL AGENCY USE ONLY I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFETY CODE. _____ SIGNED: _____ DATE: _____	
REPORT DATE 0 <u>4</u> / 0 <u>3</u> / 9 <u>1</u>		CASE # _____			
REPORTED BY	NAME OF INDIVIDUAL FILING REPORT <b>Gary D. Gibson</b>		PHONE ( 415 ) 246-8768		SIGNATURE 
	REPRESENTING <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER		COMPANY OR AGENCY NAME <b>Exxon Company U.S.A.</b>		
	ADDRESS 2300 Clayton Road, Suite 490 Concord Calif. 94520				
RESPONSIBLE PARTY	NAME <b>Exxon Company U.S.A.</b>		CONTACT PERSON <b>C &amp; M Center</b>		PHONE ( 800 ) 992-3647
	ADDRESS P.O. Box 4415 Houston, Texas 77210				
SITE LOCATION	FACILITY NAME (IF APPLICABLE) <b>Exxon RAS #7-0236</b>		OPERATOR <b>Isaiah Lane</b>		PHONE (415) 568-0947
	ADDRESS 6630 East 14th Street Oakland Alameda 94612				
	CROSS STREET 66th Avenue				
IMPLEMENTING AGENCIES	LOCAL AGENCY AGENCY NAME <b>Alameda County Health Agency</b>		CONTACT PERSON <b>Mr. Barry Chan</b>		PHONE (415) 271-4320
	REGIONAL BOARD <b>San Francisco Bay Region #2</b>		CONTACT PERSON <b>Mr. Lester Feldman</b>		PHONE (415) 464-1255
SUBSTANCES INVOLVED	(1) NAME <b>Gasoline Motor Fuel</b>		QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN		
	(2) _____		<input type="checkbox"/> UNKNOWN		
DISCOVERY/ABATEMENT	DATE DISCOVERED 0 <u>4</u> / 0 <u>1</u> / 9 <u>1</u>		HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input checked="" type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> OTHER		
	DATE DISCHARGE BEGAN _____ UNKNOWN		METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> OTHER		
	HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE _____				
SOURCE/ CAUSE	SOURCE OF DISCHARGE <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> PIPING LEAK <input type="checkbox"/> OTHER		CAUSE(S) <input type="checkbox"/> OVERFILL <input type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <input type="checkbox"/> CORROSION <input type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER		
	CHECK ONE ONLY <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)				
CURRENT STATUS	CHECK ONE ONLY <input type="checkbox"/> NO ACTION TAKEN <input type="checkbox"/> PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED <input type="checkbox"/> POLLUTION CHARACTERIZATION <input type="checkbox"/> LEAK BEING CONFIRMED <input checked="" type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input type="checkbox"/> CLEANUP UNDERWAY				
	CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) <input type="checkbox"/> CAP SITE (CD) <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input checked="" type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT SOIL (VS) <input checked="" type="checkbox"/> OTHER (OT) <b>Remove all UST's &amp; lines</b>				
	COMMENTS <b>Alameda County Health Agency notified by telephone 4/2/91. Analytical results of groundwater from recently installed monitoring well showed low levels of TPH as gasoline. (3.1 ppm TPHg). Discovered during divestment investigation. Tanks &amp; lines to be removed in near future.</b>				

*Kevin Graves*

Records Organize Go To Exit  
SITENAME EBMUD CASENO.# RBFILENO 01-1547  
STREETNO STREET 14TH ST E/HAVENSCOUR HOW DISCOVERED TC  
CITY OAKLAND ZIP DISCVRDATE 11/05/87  
COUNTY 01 LOCALAGENCY 01000 MOPNO HOWSTOPPED CT STOPDATE 11/05/87  
PRIORITY X: XXXXX Y: XXXXX LAT: XXXXX LON: XXXXX LEAKSOURCE T LEAKCAUSE F

ENTERDATE 00/00/00 REVIEWDATE 09/08/94 CORRDATE 11/04/87 RPTDATE 11/05/87  
UPDATE REVSTAT C STAFF KLG FUNDING F NO.WELLS: PILOTPRPGM Y

PRIM SUB 12036 SEC SUB MAXSOIL 0 MAXGW 0  
MAXBENZENE 0 BENZENE 0 GWDEPTH CASETYPE S STATUS 0

DATE 1 00/00/00 DATE3A 00/00/00 DATE3B 00/00/00 DATE5C 00/00/00  
DATE5R 00/00/00 DATE 7 00/00/00 DATE 8 00/00/00 DATE 9 00/00/00

INTERIM Y INTERIMDATE 00/00/00 ABATEMETHOD NT LEADAGENCY L

CASELIST FUEL ENFORCETYPE 0 ENFORCEDATE 00/00/00 RPSEARCH

COMMENT 2GAS STATNS ON EITHER SIDE OF SITE-SHN IN SOIL; SENT FILE TO ACHD 9/94

Edit PD:\fuels\FUELDB Rec 1732/2137 File CapsIns

*This is for 5570 1068  
Exxon station # 7-0236  
Wof program  
Jm*

WATER RESOURCES CONTROL BOARD  
DIVISION OF WATER QUALITY - UST CLEANUP PROGRAM  
SITE SPECIFIC QUARTERLY REPORT  
FOR QUARTER BEGINNING 10/01/94

AGENCY # : 10000      SOURCE OF FUNDS: F      SUBSTANCE: 12035  
StID : 28  
SITE NAME: Better Homes Realty      DATE REPORTED : 01/16/90  
ADDRESS : 6821 Foothill Blvd      DATE CONFIRMED: 01/16/90  
CITY/ZIP : Oakland      94605      MULTIPLE RPs : N

SITE STATUS  
-----

CASE TYPE: S      CONTRACT STATUS: 4      PRIOR.CODE:-0-      EMERGENCY RESP: -0-  
RP SEARCH: S      DATE COMPLETED: 10/19/92  
PRELIMINARY ASMNT: -      DATE UNDERWAY: -0-      DATE COMPLETED: -0-  
REM INVESTIGATION: -      DATE UNDERWAY: -0-      DATE COMPLETED: -0-  
REMEDIAL ACTION: -      DATE UNDERWAY: -0-      DATE COMPLETED: -0-  
POST REMED ACT MON:-      DATE UNDERWAY: -0-      DATE COMPLETED: -0-

ENFORCEMENT ACTION TYPE: 1      DATE ENFORCEMENT ACTION TAKEN: 10/19/92  
LUFT FIELD MANUAL CONSID: 2  
CASE CLOSED: -      DATE CASE CLOSED: -0-  
DATE EXCAVATION STARTED : -0-      REMEDIAL ACTIONS TAKEN: -0-

StID: 28

RESPONSIBLE PARTY INFORMATION  
-----

RP#1-CONTACT NAME: Chae Sun Lee  
COMPANY NAME: n/a  
ADDRESS: 6821 Foothill Blvd.  
CITY/STATE: Oakland, Ca 94605

---

Terminating all WHILE and IF blocks  
Switching input back to keyboard

Volume in drive G is SYS  
Directory of G:\LOP\

DTRANSFER	TMP	7836	11-18-94	11:18a
REIMB	TM2	4127	2-01-94	4:43p
REPORTS	TMP	13409	1-12-95	1:00p
STQUAR	TMP	0	1-12-95	12:49p
STQUAR	TM	0	1-12-95	1:46p

5 File(s) 81559552 bytes free



# GEOTECHNICAL CONSULTANTS, INC.

## MEMORANDUM

TO: Bob Mills  
Brown and Caldwell/John Carollo

DATE: Oct. 28, 1987

OUR JOB: SF87027

FROM: Joseph M. Gonzalez

SUBJECT: Gasoline Contamination detected in City of Oakland Streets

Unexpected gasoline contamination was encountered in borings S-9 and S-12. Both borings were drilled as part of the geotechnical investigation for the EBMUD South Interception project. Both borings were drilled using hollow stem augers. The field logs of borings are attached.

Gasoline contamination from boring S-9, drilled near the southeast corner of Havenscourt Blvd. and E. 14th (see attached map) was first noted in the sample taken at 38'. Gasoline odor had been detected earlier in the boring but was attributed to fumes wafting from an active service station located on the northeast corner of Havenscourt and E. 14th. The sample was placed in a brass tube and sealed with Teflon tape and capped. After drilling the hole to a depth of 44-1/2 feet, the augers were pulled, and gasoline was visible in the form of iridescent bubbles on the wet augers below a depth of 22'. The hole was back filled.

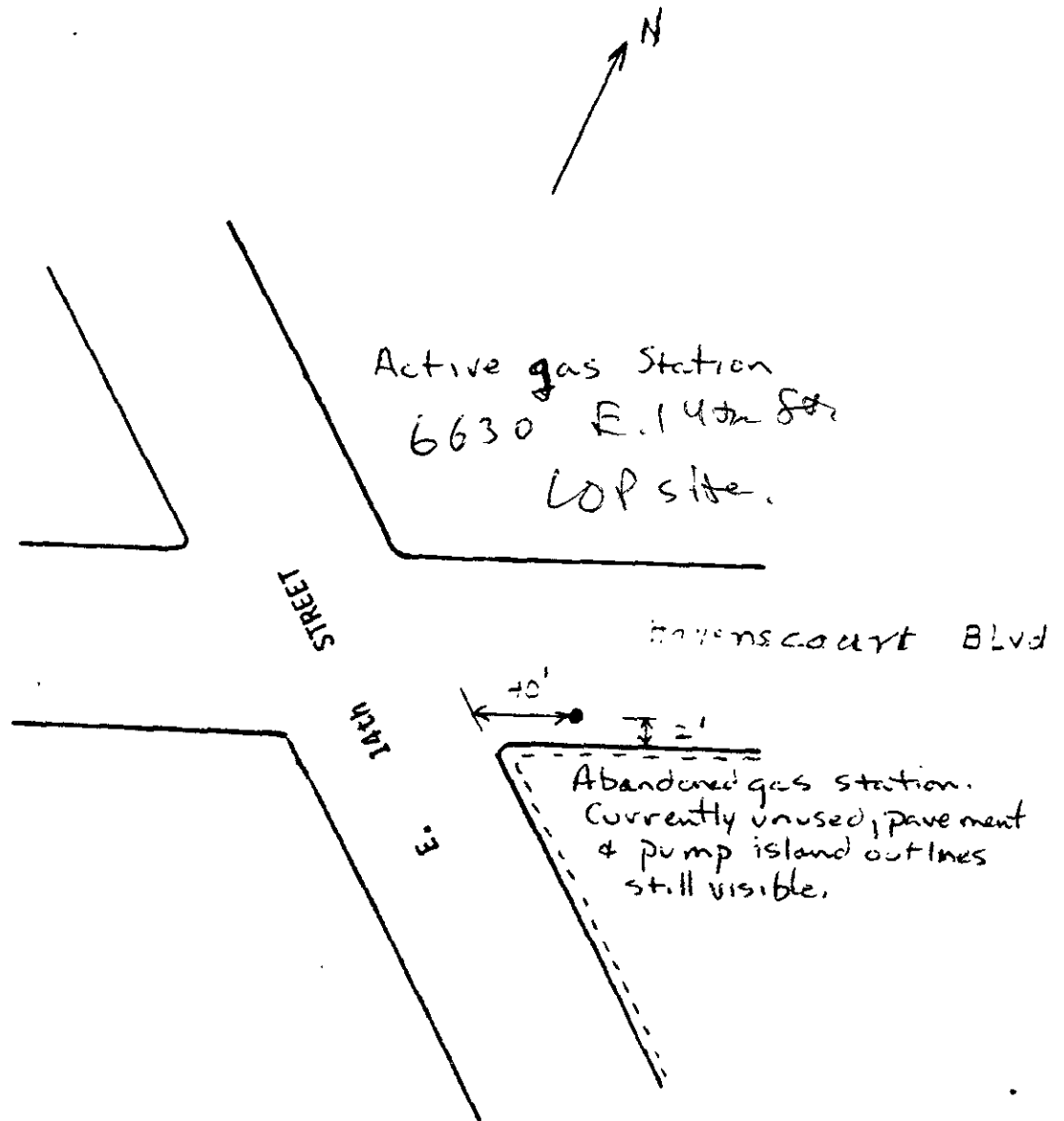
Gasoline contamination was encountered on boring S-12 at a depth of 19'. A sample was taken and sealed with Teflon tape and capped. The boring was terminated, and the hole backfilled.

Contamination in both borings is probably associated with abandoned service stations (see attached maps). The gasoline appears to be present in water bearing gravel lenses. The two soil samples noted above are being stored in our office.

Under applicable regulations set forth in Title 22 and 23, of the California Administrative Code, it is required that the County Health Department be notified of the occurrence of gasoline at these locations.

BURE HOLE NO.: S-9  
LOCATION: City of Oakland  
JOB NO.: SF87027

Permit Request 21083



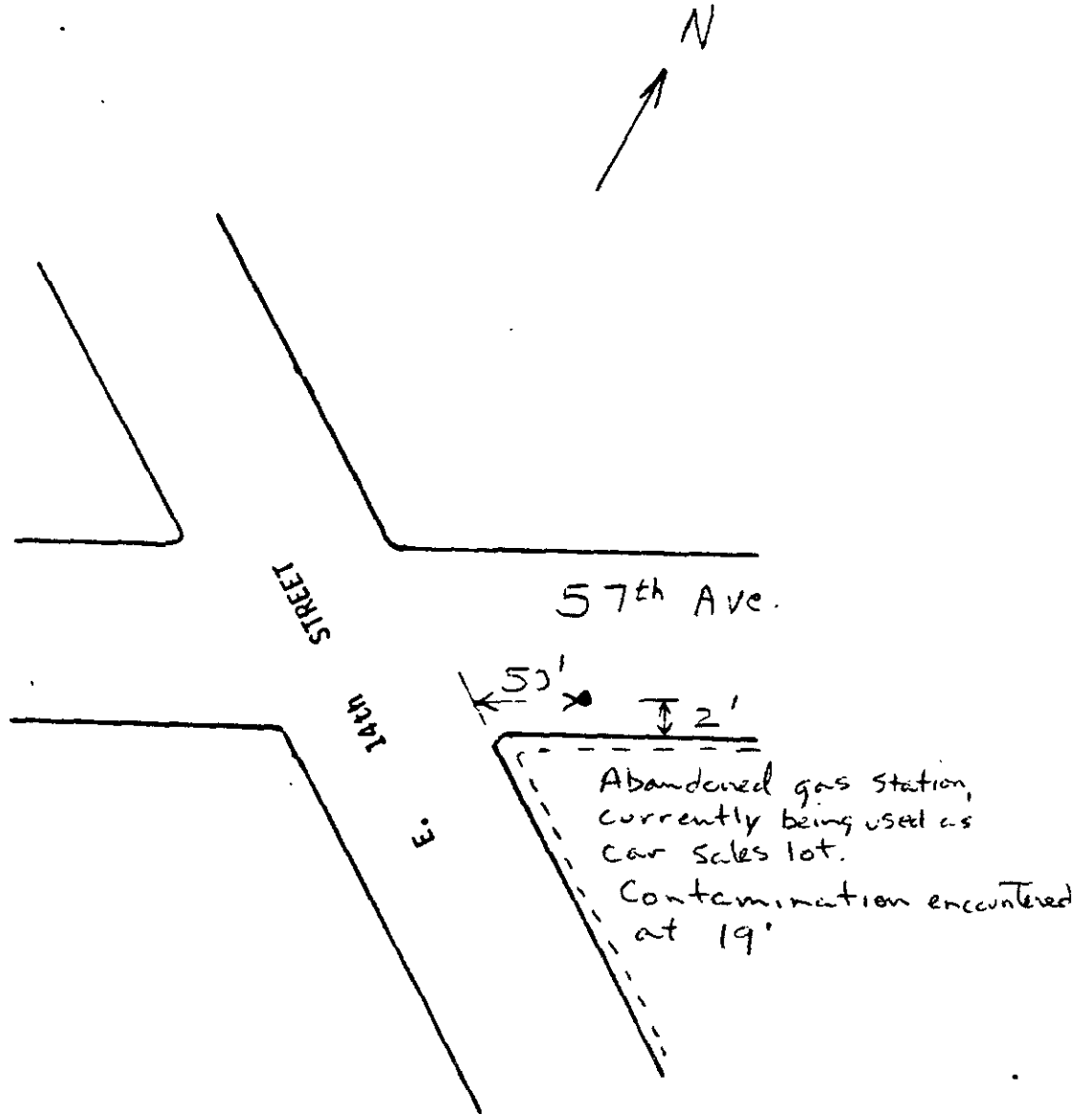
NOT TO SCALE

SIGNED BY: *Rajesh Oberoi*

DATE: 10/07/87

BUREAU NO.: S-12  
LOCATION: City of Oakland  
JOB NO.: SF87027

Permit Request 21087



NOT TO SCALE

SIGNED BY: *Rajesh Oberoi*

DATE: 10/07/87

# LOG OF DRILL HOLE

JOB NO.: SF87027  
 PROJECT: EPMUD  
 LOCATION: Havenscourt + B. 17th  
 DRILLING METHOD: HSA

LOGGED BY: ECT  
 CHECKED BY:

DRILL HOLE NO.: 5-9  
 DRILLING DATE: 10-22-87  
 DATUM:  
 REFERENCE EL.: 12.5

ELEVATION (FEET) DEPTH	DRILLING RATE (MINUTES/FEET) AND CASING	SAMPLE	SAMPLE NO.	BLOW COUNT (BLOWS PER FOOT)	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	ATTENBERG LIMITS		TORVANE (PSF)	ADDITIONAL TESTS
									LIQUID LIMIT (%)	PLASTIC LIMIT (%)		
						6" AC over 4" base						UC (PP) Tom/2
10	++++		1	9/3/7		CLAY (CH) Black, stiff, high plasticity, damp, with scattered 1/4" pebbles					1.0	LC
	++++		2	6/7/0		GRAVELLY CLAY (Gc) blue gray, very stiff, low plasticity, large amount of fine & coarse GRAVEL of sedimentary rock fragments including brick red SANDSTONE and chert, damp						
	++++					Slightly softer						
20	++++		3	4/15/19		CLAYEY SILT (Mh) medium brown, very stiff, low plasticity, damp						4.75
	++++		4	5/22/19		CLAYEY GRAVEL (Gc) medium brown, very dense, low plasticity, damp						
30	++++		5	8/14/20		CLAYEY SILT (Mh) medium brown, very stiff, low plasticity, damp						4.75
	++++		6	11/20/38		Trace of organic material						2.3 4.0
40	++++		7	9/11/14		Becoming SANDY - <u>STRONG GASOLINE ODOR</u>						1.5 4.0
	++++		8	8/12/19		SILTY SAND (Sm) medium brown, very fine - medium grained with moderate amount silt, moist, becoming wet at 44 1/2.						
	++++					TD. at 44 1/2 W.L. @ 21' Gasline @ 22' ±  Hit but did not damage unannounced pipe or obstruction at 5' interval 1 S. Backfiled hole						

SHEET OF

LEGEND TO LOGS ON PLATE A-2

PLATE

# LOG OF DRILL HOLE

OB NO.: JFB7027  
 PROJECT: EDMUD  
 LOCATION: 57th + E HX  
 DRILLING METHOD: SPA

LOGGED BY: ECP  
 CHECKED BY:

DRILL HOLE NO.: S-12  
 DRILLING DATE: 10-23-87  
 DATUM:  
 REFERENCE EL: 12.2

ELEVATION (FEET) DEPTH	DRILLING RATE (MINUTES/FEET) AND CASING	SAMPLE NO.	BLOW COUNT (BLOWS PER FOOT)	GRAPHIC LOG	GEOTECHNICAL DESCRIPTION AND CLASSIFICATION	DRY DENSITY (PCF)	MOISTURE CONTENT (%)	ATTERBERG LIMITS		TORVANE (P6)	ADDITIONAL TESTS
								LIQUID LIMIT (%)	PLASTIC LIMIT (%)		
					6" Asphalt over 6" base						
		1	30	~	CLAY (CH) dark gray, medium stiff, moderate-high plasticity, becomes gravelly at 3 1/2'						UC(P) Tons/ft <sup>2</sup>
		2	25	. . .	SAND (SP) light brown, fine-coarse sand with 5-10% fine gravel, dense, damp, slightly silty					1.25	
10	++++	3	25		CLAYEY SILT (ML) medium brown, very stiff, low plasticity, common fine gravel lenses, damp					1.8	4.2
	++++	4	13		SILTY CLAY (CL) as above with increased clayiness, stiff common black organic inclusions					1.75	3.0
20	++++	5	15		CLAYEY GRAVEL (GC) blue green, fine + coarse gravel becomes cleaner at 19'. Strong gasoline odor.						
	++++				T.D. at 19 1/2'						
	++++				Hole backfilled with concrete						
30	++++				See attached notes						



EAST BAY MUNICIPAL UTILITY DISTRICT

ST 101068

B3  
GSZ  
2/11/87

November 4, 1987

Mr. Paul Johnson  
California Regional Water Quality  
Control Board  
San Francisco Bay - Region 2  
1111 Jackson Street, Room 6040  
Oakland, CA 94607

Re: Gasoline Contamination - City of Oakland Streets

Dear Mr. Johnson:

The purpose of this letter is to refer an apparent discovery of soil contamination. This finding is based upon observations made by Geotechnical Consultants, Inc. while performing contract work for East Bay Municipal Utility District. The consultant obtained soil borings in the City of Oakland streets at a site along E. 14th Street and Havenscourt Blvd. The soil samples are providing information for the design phase of the EBMUD Wet Weather project. In the process of doing soil borings, gasoline contamination was discovered. Two gasoline service stations, one active and one abandoned, are adjacent to where the drilling was done. A copy of the consultants report, with attachments, is enclosed.



The District requests to be kept apprised of the results of your investigation.

Should you have any questions, please contact me at 465-3700, extension 120.

Very truly yours,

*Joseph G. Damas, Jr.*  
JOSEPH G. DAMAS, JR.  
Manager of Source Control

JGD:BBH:bbh

Greg,  
If you have time, get in touch with Ala. Co. and see if they are following up.

Peter  
11/6/87

cc: Alameda County Health Department

UNKNOWN

B3

E 14th & Havenscourt

GSZ  
11/3/87

OAKLAND

ALAMEDA



**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  
FAX # 510/337-9335**

DAVE KLETTE  
Project Specialist

**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 released 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:

**UNDERGROUND TANK CLOSURE PLAN**

\* \* \* Complete according to attached instructions \* \* \*

1. Name of Business EXXON SERVICE STATION 7-0236
- Business Owner or Contact Person (PRINT) WAYNE SIMMONS
2. Site Address 6600 EAST 14TH STREET (6600 E 14TH STREET)  
City OAKLAND zip 94621 Phone 916-487-6591
3. Mailing Address 2300 CLAYTON ROAD  
City CONCORD zip 94524 Phone 510-246-8733
4. Property Owner EXXON COMPANY USA  
Business Name (if applicable) \_\_\_\_\_  
Address PO Box 4386  
City, state HOUSTON TEXAS zip 77210-4386
5. Generator name under which tank will be manifested  
EXXON COMPANY, U.S.A.

EPA ID# under which tank will be manifested CA 4000028892

1068

6. Contractor ENVIRONMENTAL RESOLUTIONS, INC  
Address 74 DIGITAL DRIVE, SUITE 6  
City NOVATO Phone 415-382-5991  
License Type\* A HAZ CJO ID# 611383

\*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) ENVIRONMENTAL RESOLUTIONS, INC  
Address 74 DIGITAL DRIVE, SUITE 6  
City, State NOVATO, CA Phone 415-382-5991

8. Main Contact Person for Investigation (if applicable)  
Name MARC A BRIGGS Title PROJECT MANAGER  
Company ENVIRONMENTAL RESOLUTIONS INC  
Phone 415-382-5991

9. Number of underground tanks being closed with this plan 4  
Length of piping being removed under this plan ~ 300 feet  
Total number of underground tanks at this facility (\*\*confirmed with owner or operator) 4

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. CAD 982-524-480  
Hauler License No. \_\_\_\_\_ License Exp. Date SEPT 1997  
Address 8430 AMELIA STREET  
City OAKLAND State CA Zip 94621

b) Product/Residual Sludge/Rinsate Disposal Site

Name CROSBY AND OVERTON EPA ID# CAD 028-409-019  
Address 1630 WEST 17TH STREET  
City LONG BEACH State CA Zip 90813



c) Tank and Piping Transporter

Name ERICKSON, INC. EPA I.D. No. \_\_\_\_\_  
Hauler License No. 0019 License Exp. Date 5/31/97  
Address 255 PARR BOULEVARD  
City RICHMOND State CA Zip 94801

d) Tank and Piping Disposal Site

Name ERICKSON, INC EPA I.D. No. CAD 009 466 392  
Address 255 PARR BOULEVARD  
City RICHMOND State CA Zip 94

11. Sample Collector

Name \_\_\_\_\_  
Company ENVIRONMENTAL RESOLUTIONS, INC  
Address 74 DIGITAL DRIVE, SUITE 6  
City NOVATO State CA Zip 94949 Phone 415-382-5991

12. Laboratory

Name SEQUOIA ANALYTICAL  
Address 680 CHESAPEAKE DRIVE  
City REDWOOD CITY State CA Zip 94063  
State Certification No. 1210

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

If yes, describe. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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

DISPLACE VAPORS BY ADDING 1.5 TONS OF DRY ICE PER  
100 GALLONS OF UST CAPACITY. MONITOR VAPORS WITH LEL METER

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, groundwater)	Location and Depth of Samples
Capacity	Use History include date last used (estimated)		
10,000	1983 to 12/96	SOIL / GROUNDWATER 2 SOIL SAMPLES/EACH END	~ 10 feet OF AT SOIL-WATER INTERFACE
10,000	1983 to 12/96	SOIL / GROUNDWATER 2 SOIL SAMPLES/EACH END	~ 10 feet OF AT SOIL-WATER INTERFACE
10,000	1983 to 12/96	SOIL / GROUNDWATER 2 SOIL SAMPLES/EACH END	~ 10 feet OF AT SOIL-WATER INTERFACE
550	1986 to 12/96	SOIL 1 SOIL SAMPLE/MIDDLE	~ 8 feet OF AT SOIL-WATER INTERFACE

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**

<p>Stockpiled Soil Volume (estimated)</p> <p align="center">~ 400 CUBIC YARDS</p>	<p>Sampling Plan:</p> <p align="center">1 FOUR POINT COMPOSITE FOR EACH 100 CUBIC YARDS</p>
---	---

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 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)

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
MTBE	5030	8020A	SOIL/WATER PPM/PPB
BTEX	5030	8020	0.005/0.15
TEPHo	5030	8015	1.0/50.0
TPHg	5030	8015	1.0/50.0
OTG	D-F / BTF	5520	50.0/5000.0
CL HC		8010/8240	
CO		6010	
Cr		6010	
Pb		6010	
Zn		6010	
Ni		6010	

Semivolatiles

8270  
"

18. Submit Worker's Compensation Certificate copy  
Name of Insurer BC ENVIRONMENTAL INSURANCE BROKERS
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. The report must contain all 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 that 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 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 ENVIRONMENTAL RESOLUTIONS, INC  
 Name of Individual MARC A BUGGS  
 Signature *Marc A Buggs* Date 11/21/96

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business ENVIRONMENTAL RESOLUTIONS, INC AGENT FOR EXXON  
 Name of Individual MARC A BUGGS  
 Signature *Marc A Buggs* Date 11/21/96

CITY OF OAKLAND  
FIRE PREVENTION BUREAU  
421 14TH ST., 1ST FL.  
OAKLAND, CALIFORNIA 94612  
(510) 238-3851

APPLICATION for PERMIT to INSTALL, REMOVE or REPAIR TANKS  
In the CITY OF OAKLAND

Request Submittal Date: 11/22/96

**PLEASE CIRCLE APPROPRIATE ACTIONS:** Application is hereby made for permit to:

(a) Remove (b) Install (c) Repair (d) Modify (e) Abandon/Close in Place **A**

(a) Gasoline (b) Fuel oil (c) Diesel (d) 2(A) AND 1(C) tank(s) and excavate, commencing:

(a) four feet inside the curb line\* (b) inside the property line

\*inside curb line, please attach copy of sidewalk/excavation permit from PLANNING AND BUILDING

on the NE side of EAST 14th (SL)Ave.      feet of 66th (SL)Ave.

Site Address: 6630 EAST 14th Street Present storage     

Owner: EXXON COMPANY USA Address PO Box Phone 800-992-3647

Applicant: ENVIRONMENTAL RESOLUTIONS Address 74 DIGITAL DRIVE Ste 6 Phone 415 382 9105  
NOVATO CA 94949

Sidewalk surface to be disturbed X Number of Tanks 1 Capacity 310,000 ~~1500~~ Gallons ea.

Remarks     

Signature MARC A. BURGESS AGENT FOR EXXON

**PLEASE ATTACH/SUBMIT:**

- (1) Copy of Stamped, Approved Closure Plans for underground tank removal(s)
- (3) Sets of plans and (1) copy of specifications for above ground tank removal
- (3) Sets of plans for underground/aboveground tank installation
- copy or prepare to show verification of a City Business License Permit
- copy or prepare to show Planning and Building approval for above ground tank removal and tank repair

**NOTE: FOR TANK INSTALLATION PLEASE SUBMIT THIS APPLICATION FORM ALONG WITH A APPLICATION FOR PERMIT TO OPERATE, MAINTAIN OR STORE**

**FOR OFFICE USE ONLY**

Permit No.       
Copies to: Electrical Inspection  
rev: 9/96

Date Issued:     

Tk

DEPARTMENT OF HEALTH SERVICES  
TOXIC SUBSTANCES CONTROL DIVISION  
2151 BERKELEY WAY, ANNEX 7  
BERKELEY, CA 94704

As'd.....



March 17, 1988

Mr. Bob Justice, President  
Erickson, Inc.  
255 Parr Blvd.  
Richmond, CA 94801

Dear Mr. Justice:

## FINAL HAZARDOUS WASTE FACILITY PERMIT FOR ERICKSON INC.

Enclosed please find the final permit and response to comments received on the draft permit for the following hazardous waste facility:

Name of Company: Erickson Inc.


Name of Facility: Underground Tank Cleaning Facility

Address of Facility: 255 Parr Blvd.  
Richmond, CA

EPA ID No.: CAD 009 466 392

This permit authorizes the above noted facility to store and/or treat hazardous waste under certain specified conditions. Questions regarding this final permit should be directed to Barbara Cook, Toxic Substances Control Division, 2151 Berkeley Way, Annex 7, Berkeley, CA 94704, (415) 540-2043.

Sincerely,

  
Dwight R. Hoenig, Chief  
North Coast California Section  
Toxic Substances Control Division

DRH:dem:rvh

STATE OF CALIFORNIA—CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

PETE WILSON, Governor

## DEPARTMENT OF TOXIC SUBSTANCES CONTROL

P STREET, 4TH FLOOR  
BOX 806  
SACRAMENTO, CA 95832-0806

916) 323-3219

## \*\*\* HAZARDOUS WASTE TRANSPORTER REGISTRATION \*\*\*

NAME AND ADDRESS OF REGISTERED TRANSPORTER:Erickson, Inc.  
255 Parr Blvd.  
Richmond, California 94801TRANSPORTER REGISTRATION NO: 0019EXPIRATION DATE: May 31, 1997

THIS IS TO CERTIFY THAT THE FIRM NAMED ABOVE IS DULY REGISTERED TO TRANSPORT HAZARDOUS WASTE IN THE STATE OF CALIFORNIA IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 6.5, DIVISION 20 OF THE HEALTH AND SAFETY CODE AND DIVISION 4.5, TITLE 22 OF THE CALIFORNIA CODE OF REGULATIONS.

THIS REGISTRATION CERTIFICATE MUST BE CARRIED WITH EACH SHIPMENT OF HAZARDOUS WASTE.

  
\_\_\_\_\_  
(AUTHORIZED SIGNATURE)

MAY 08 1996

\_\_\_\_\_  
(DATE)

cc: California Highway Patrol

# Crosby & Overton

Industrial & Environmental Services

TO: MARK BRIBBS

COMPANY: ERI

FAX NUMBER: 415 382 1856

FROM: JONATHAN

DATE & TIME: \_\_\_\_\_

MESSAGE: OAKLAND EPA CAD 982 524 480  
EXPIRES SEP 97

LONG BEACH TSD 1630 WEST 19TH ST.  
LONG BEACH CA 90813  
EPA CAD 028 409 019

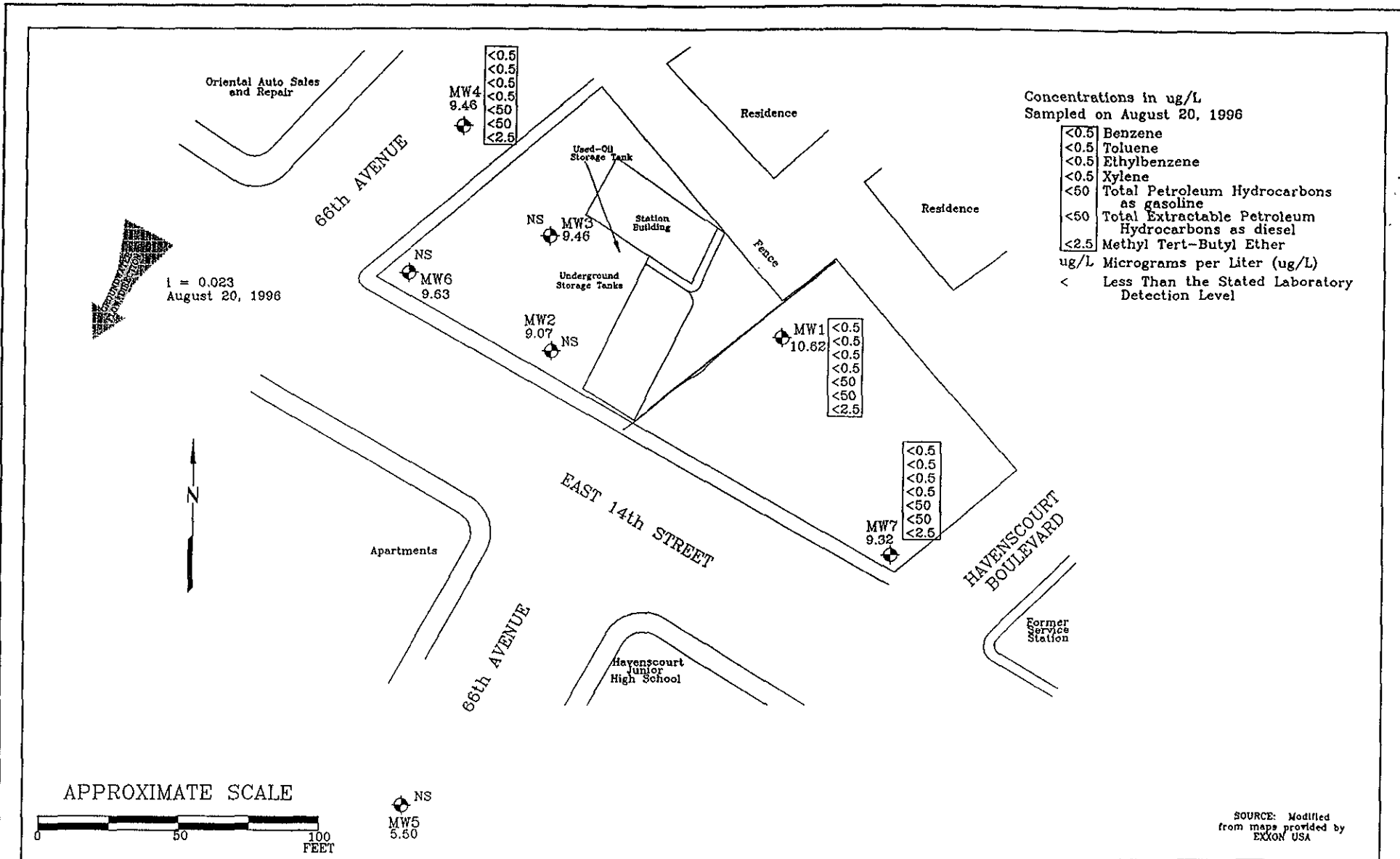
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**GENERALIZED SITE PLAN**

EXXON SERVICE STATION 7-0236  
6630 East 14th Street  
Oakland, California

**EXPLANATION**

- ⊕ Groundwater Monitoring Well
- MW7
- 9.32 Groundwater elevation in feet above mean sea level

i = Interpreted gradient magnitude

**PROJECT NO.**

2009

**PLATE**

2

**DATE.** 9/16/96

**STATE  
COMPENSATION  
INSURANCE  
FUND**

P.O. BOX 807, SAN FRANCISCO, CA 94101-0807

**CERTIFICATE OF WORKERS' COMPENSATION INSURANCE**

ISSUE DATE: 07-01-98

POLICY NUMBER: 1200363 - 98  
CERTIFICATE EXPIRES: 07-01-97

CONTRACTORS STATE LICENSE BOARD  
ATTENTION: WORKMANS COMPENSATION UNIT  
P. O. BOX 26000  
SACRAMENTO, CA 95826

JOB: LIC. # 611383  
INCEPTION DATE: 07-01-98  
D.O.: SOUTH ORANGE

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon 30 days' advance written notice to the employer.

We will also give you 30 days' advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policies listed herein. Notwithstanding any requirement, term, or condition of any contract or other document with respect to which this certificate of insurance 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.

*Kenneth C. Bollier*  
PRESIDENT

EMPLOYER'S LIABILITY LIMIT INCLUDING DEFENSE COSTS: \$1,000,000.00 PER OCCURRENCE.

ENDORSEMENT #2086 ENTITLED CERTIFICATE HOLDERS' NOTICE EFFECTIVE 07/01/98 IS ATTACHED TO AND FORMS A PART OF THIS POLICY.

EMPLOYER

LEGAL NAME

ENVIRONMENTAL RESOLUTIONS, INC.  
STE 106  
9272 JERONIMO  
IRVINE 92718

ENVIRONMENTAL RESOLUTIONS, INC

State of California

# Contractors State License Board

Pursuant to 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:

ENVIRONMENTAL RESOLUTIONS INC



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

A - General Engineering Contractor



Witness my hand and seal this day,

February 14, 1991

Issued January 29, 1991

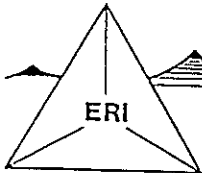
*David R. Phillips*  
Registrar of Contractors

*Joseph E. Connell*  
Signature of Licensee

*Joseph E. Connell*  
Signature of License Qualifier

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

611383  
License Number



ENVIRONMENTAL RESOLUTIONS, INC.



State of California  
**CONTRACTORS STATE LICENSE BOARD**  
 ACTIVE LICENSE

License Number **611383**      Entity **CORP**

Business Name **ENVIRONMENTAL RESOLUTIONS  
 INC**

Classification **A HAZ-C10**

Expiration Date **01/31/97**

Any change of business address/name must be reported to the Registrar within 90 days.

This license is not transferrable, and shall be returned to the Registrar upon demand when suspended, revoked or invalidated for any reason. This pocket card is valid through the expiration date only.

If found, please drop in any mail box.  
 Postage guaranteed by:  
 Contractors State License Board  
 P.O. Box 26000  
 Sacramento, CA 95826

*Joseph E. O'Donnell*  
 Licensee Signature

# ACORD. CERTIFICATE OF INSURANCE

NOVAIO OFFICE

0003

DATE (MM/DD/YY)

12-08-94

PRODUCER

BC Environmental Insurance Brokers  
4995 Golden Foothill Pkwy., Suite 5  
El Dorado Hills, CA 95762

THIS CERTIFICATE 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 A Homestead Insurance Company
- COMPANY B
- COMPANY C
- COMPANY D

INSURED

Environmental Resolutions, inc.  
9272 Jeronimo Road., Suite 106  
Irvine, CA 92718

### 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
A	<input checked="" type="checkbox"/> GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input checked="" type="checkbox"/> CLAIMS MADE <input type="checkbox"/> OCCUR <input type="checkbox"/> OWNER'S & CONT PROT <input checked="" type="checkbox"/> Professional Liability <input checked="" type="checkbox"/> Pollution Liability	138RCP2532	12-08-94	11-12-95	GENERAL AGGREGATE \$1,000,000 PRODUCTS-COMP/OP AGG \$1,000,000 PERSONAL & ADV INJURY \$1,000,000 EACH OCCURRENCE \$1,000,000 FIRE DAMAGE (Any one fire) \$ 50,000 MED EXP (Any one person) \$ Excluded
	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				COMBINED SINGLE LIMIT \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE \$
	GARAGE LIABILITY <input type="checkbox"/> ANY AUTO				AUTO ONLY - EA ACCIDENT \$ OTHER THAN AUTO ONLY: \$ EACH ACCIDENT \$ AGGREGATE \$
	EXCESS LIABILITY <input type="checkbox"/> UMBRELLA FORM <input type="checkbox"/> OTHER THAN UMBRELLA FORM				EACH OCCURRENCE \$ AGGREGATE \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY THE PROPRIETOR PARTNERS/EXECUTIVE OFFICERS ARE: <input type="checkbox"/> INCL <input type="checkbox"/> EXCL				STATUTORY LIMITS \$ EACH ACCIDENT \$ DISEASE - POLICY LIMIT \$ DISEASE - EACH EMPLOYEE \$
A	OTHER Contractors Pollution Liability	138ECL2532	12-08-94	11-12-96	

DESCRIPTION OF OPERATIONS, LOCATIONS, VEHICLES & SPECIAL ITEMS  
Additional Insured's may only be added "as respects General Liability."

CERTIFICATE HOLDER  
- For Information Only -

CANCELLATION  
SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOR TO MAIL 30 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

**SITE SAFETY PLAN**  
**UNDERGROUND STORAGE TANK REMOVAL**  
at  
Exxon Service Station 7-0236  
6630 East 14th. Street  
Oakland, California

**INTRODUCTION**

This Site Safety Plan describes the basic safety requirements for the tank removal investigation. The provisions set forth in this plan apply to the employees of Environmental Resolutions, Inc. (ERI) and its subcontractors working on this phase of the project. The subcontractors may elect to modify these provisions, but only to upgrade or increase the safety requirements, and only with the concurrence of ERI, as designated and accepted in writing.

This Site Safety Plan will address the expected potential hazards that may be encountered on the worksite for this project. Field activities are planned with a duration estimated at 1 month after the start date. If changes in site or working conditions occur as activities progress, addenda to this plan will be provided by ERI.

**AUTHORITY FOR SITE SAFETY**

The ERI personnel responsible for project safety are the Project Manager and the Staff Geologist or Engineer. The Health and Safety Coordinator is responsible for the overall ERI Health and Safety Program and may choose to audit the site for compliance and take appropriate action to correct deficiencies. The Project Manager is responsible for implementing the provisions of this plan, for providing a copy of this plan to the Staff Geologist or Engineer, and for advising the Staff Geologist or Engineer on health and safety matters. The Project Manager and Staff Geologist or Engineer have the authority to audit site activities for compliance with the provisions of this plan. They may suspend or modify work practices or dismiss subcontractors whose conduct does not meet the requirements specified in this plan.

The Staff Geologist or Engineer is responsible for communicating the information contained in this plan to the ERI personnel assigned to the project and to the responsible representative of each subcontractor working for ERI on the project.

The Staff Geologist or Engineer will also act as the Site Safety Officer. As such, the Staff Geologist or Engineer is responsible for addressing the following items:

- o Implementing the Site Safety Plan, company policy, and procedures
- o Requiring and maintaining adequate safety supplies and equipment inventory onsite

- o Site control, decontamination, and contamination reduction procedures
- o Conducting daily safety meetings and advising workers regarding hazards
- o Site control, decontamination, and contamination reduction procedures
- o Reporting accidents or incidents

The Staff Geologist or Engineer has the authority to suspend work any time he or she finds that the provisions of the plan are inadequate for worker safety. The Staff Geologist or Engineer will promptly inform the Project Manager and the Health and Safety Coordinator of deficiencies within the plan or individuals or subcontractors whose conduct is not consistent with the requirements of this plan.

### **MEDICAL SURVEILLANCE**

ERI personnel and subcontractors engaged in project activities must participate in a medical surveillance program and must be cleared by the examining physician(s) to wear respiratory protection devices and protective clothing for working with hazardous materials. The applicable requirements of Title 8, Section 5216 of the California Administrative Code will be observed. The applicable requirements under 29 CFR 1910.120 of the Federal Administrative Code will also be observed.

### **SAFETY AND ORIENTATION MEETING**

Field personnel from ERI and its subcontractors will attend a project-specific training meeting for safety issues and review the project tasks before beginning work. The meeting will be led by the Project Manager or Staff Geologist or Engineer. In addition, fit-testing of respiratory protective devices will be conducted as part of the safety orientation meeting when the use of a respirator may be required.

### **HAZARD ASSESSMENT**

The major contaminants expected to be encountered on the project are crude oil and its hydrocarbon constituents. The anticipated contaminants and their exposure standards are listed in Table 1. It is not anticipated that the potential levels of exposure will reach the permissible exposure limits (PEL) or threshold limit values (TLV). Inhalation and dermal contact are the potential exposure pathways. Protective clothing will be mandatory for field personnel specified in this plan. In addition, respiratory protective devices are required to be worn by each person onsite or to be within easy reach should irritating odors be detected or irritation of the respiratory tract occur.

TABLE 1  
 EXPOSURE LIMITS OF ANTICIPATED CHEMICAL CONTAMINANTS  
 (page 1 of 2)

Contaminant	PEL	EL	ED	CL	TWA	STEL
Benzene <sup>1</sup> [skin] & [carc]	1*	---	-----	---	10*	5*
Ethylbenzene [skin]	100*	---	-----	---	100*	125*
Gasoline <sup>2</sup>	300*	---	-----	---	300*	500*
Toluene [skin]	100*	200*	10 min per 8 hrs	500*	100*	150*
Xylene (o, m, & p isomers) [skin]	100*	200*	30 min per 8 hrs	300*	100*	150*

PEL - permissible exposure limit: 8-hour, time-weighted average, California Occupational Safety and Health Administration Standard (CAL-OSHA)

EL - excursion limit: maximum concentration of an airborne contaminant to which an employee may be exposed without regard to duration provided the 8-hour time-weighted average for PEL is not exceeded (CAL-OSHA)

ED - excursion duration: maximum time period permitted for an exposure above the excursion limit but not exceeding the ceiling limit (CAL-OSHA)

CL - ceiling limit: maximum permitted concentration of airborne contaminant which employees may be exposed (CAL-OSHA)

TWA - time-weighted average: 8 hour, [same as threshold limit value (TLV)], American Conference of Governmental Industrial Hygienists (ACGIH)

STEL - short-term exposure limit: 15 minute time-weighted average (ACGIH)

\* - milligrams of substance per cubic meter of air (mg/m<sup>3</sup>)

\* - parts of gas or vapor per million parts air

[carc] - substance identified as a suspected or confirmed carcinogen

[skin] - substance may be absorbed into the bloodstream through the skin, mucous membranes, or eyes

1 - Federal OSHA benzene limits given for PEL and STEL; STEL has a 50 minute duration limit

2 - Federal OSHA gasoline limit given for PEL; STEL is the same for FED-OSHA and ACGIH



A brief description of the physical characteristics, incompatibilities, toxic effects, routes of entry, and target organs has been summarized from the NIOSH Pocket Guide to Chemical Hazards for the contaminants anticipated to be encountered. This information is used in onsite safety meetings to alert personnel to the hazards associated with the expected contaminants.

### **Benzene**

Benzene is a colorless, aromatic liquid. Benzene may create an explosion hazard. Benzene is incompatible with strong oxidizers, chlorine, and bromine with iron. Benzene is irritating to the eyes, nose, and respiratory system. Prolonged exposure may result in giddiness, headache, nausea, staggering gait, fatigue, bone marrow depression, or abdominal pain. Routes of entry include inhalation, absorption, ingestion, and skin or eye contact. The target organs are blood, the central nervous system (CNS), skin, bone marrow, eyes, and respiratory system. Benzene is carcinogenic.

### **Ethylbenzene**

Ethylbenzene is a colorless, aromatic liquid. Ethylbenzene may create an explosion hazard. Ethylbenzene is incompatible with strong oxidizers. Ethylbenzene is irritating to the eyes and mucous membranes. Prolonged exposure may result in headache, dermatitis, narcosis, or coma. Routes of entry include inhalation, ingestion, and skin or eye contact. The target organs are the eyes, upper respiratory system, skin, and the CNS.

### **Toluene**

Toluene is a colorless, aromatic liquid. Toluene may create an explosion hazard. Toluene is incompatible with strong oxidizers. Prolonged exposure may result in fatigue, confusion, euphoria, dermatitis, or photophobia. Routes of entry are inhalation, absorption, ingestion, and skin or eye contact. The target organs are the CNS, liver, kidneys, and skin.

### **Xylene Isomers**

Xylene is a colorless, aromatic liquid. Xylene may create an explosion hazard. Xylene is incompatible with strong oxidizers. Xylene is irritating to the eyes, nose, and throat. Prolonged exposure may result in dizziness, excitement, drowsiness, staggering gait, corneal vacuolization, vomiting, abdominal pain, or dermatitis. Routes of entry are inhalation, absorption, ingestion, and skin or eye contact. The target organs are the CNS, eyes, gastrointestinal tract, blood, liver, kidneys, and skin.

## GENERAL PROJECT SAFETY REQUIREMENTS

Project activities will be conducted in accordance with the following minimum safety requirements:

- o Eating, drinking, and smoking will be restricted to designated area.
- o Gross decontamination and removal of all personal protective equipment will be performed before leaving the site. Contaminated clothing will be removed and collected in a drum for disposal.
- o Shaking or blowing dust or other materials off potentially contaminated clothing or equipment to remove dust or other materials is not permitted.
- o The Staff Geologist or Engineer will be responsible for taking steps to protect employees from physical hazards including:
  - \* Falling objects, such as tools or equipment
  - \* Falls from elevations
  - \* Tripping over hoses, pipes, tools, or equipment
  - \* Slipping on wet or oily surfaces
  - \* Insufficient or faulty protective equipment
  - \* Insufficient or faulty equipment or tools
- o All personnel will be required to wash hands and faces before eating, drinking, or smoking in the afore-mentioned designated areas.
- o Field personnel will be cautioned to inform each other of the nonvisual effects of the presence of toxins, such as:
  - \* Headaches
  - \* Dizziness
  - \* Nausea
  - \* Blurred vision
  - \* Cramps
  - \* Irritation of eyes, skin, or respiratory tract
  - \* Changes in complexion or skin discoloration
  - \* Changes in apparent motor coordination
  - \* Changes in personality or demeanor
  - \* Excessive salivation or changes in pupillary response
  - \* Changes in speech ability or pattern

## **PROTECTIVE EQUIPMENT REQUIREMENTS**

Field personnel and visitors are required to wear the following protective clothing and equipment, as a minimum, while in the work area at the job site:

- o Hard hat
- o Safety glasses
- o Steel-toed boots

Field personnel engaged in work are required to wear the following equipment:

- o Hard hat
- o Safety glasses
- o Steel-toed chemical resistant boots (rubber, neoprene, or polyvinyl chloride [PVC])
- o Gloves (rubber, neoprene, PVC, or nitrile)
- o Orange or red safety vest (if equipment or motor vehicles are operating onsite or nearby)
- o Long-sleeve shirts
- o Standard Tyvek coveralls (when required by Staff Geologist or Engineer)
- o Respirator with organic vapor and acid gas cartridge (if lowest PEL or TLV is exceeded in the breathing zone or Staff Geologist or Engineer decides respirators should be worn)

## **RESPIRATORY PROTECTION PROGRAM**

This section summarizes the ERI Respiratory Protection Program. ERI subcontractors must have company medical surveillance and respiratory protection programs including adequate training of their employees. Subcontractors must provide personal protective equipment as required in this Site Safety Plan for their employees. ERI will attempt to verify worker training but does not assume the responsibility of the employer in any way. The following sections outline the ERI Respiratory Protection Program.

Respirators are not issued to employees until the company physician conducts a complete physical and decides the employee can 1) wear personal protective equipment and 2) wear a respirator. After the physician has issued written approval to ERI, the Health and Safety Coordinator conducts the required training including these basic topics:

- o Applicable OSHA regulations 1910.134 and 1910.120
- o Nature of respiratory hazards to be encountered in the work environment and how to select proper respiratory equipment
- o Use of respirators and proper fitting
- o Functions and limitations of respirators
- o Cleaning, disinfection, inspection, maintenance, and storage of respirators

#### **Functions and Limitations of Respirators**

Respirators are not intended for and may not be used in atmospheres which are, or may become, immediately dangerous to life or health (IDLH) or in atmospheres where the identity or concentration of the contaminant(s) is unknown. Respirators may not be used in atmospheres containing less than 19.5 percent oxygen.

Cartridges or canisters for respirators are selected and supplied to employees by the Health and Safety Coordinator. The failure to choose or use a respirator equipped with cartridges or filters suitable for the contaminant(s) in the atmosphere or likely to be released in the atmosphere may result in the respirator providing little or no protection against the contaminated atmosphere. The Site Safety Plan specifies the contaminant(s) to be encountered and the type of cartridge or canister appropriate for personal protection.

Assuming that the respirator is properly fitted, in good condition, free from leaks, and has the proper cartridges for the contaminant(s) present, the length of time the respirator will provide protection also depends on the conditions of use.

The conditions of use include but are not limited to the following:

- o The concentration of contaminant(s) in the atmosphere
- o The temperature and humidity of the ambient atmosphere
- o Any previous use of the cartridges and filters
- o The elapsed time since the removal of the cartridges or filters from their protective packaging

- o The emotional state of the wearer
- o The level of physical activity of the wearer

Cartridges designed and specified to protect the wearer against airborne particles are not appropriate for protection against gases and vapors. Cartridges designed and specified for protection against specific gases and vapors are not appropriate for protection against airborne particles or other gases or vapors beyond the scope of that type of cartridge. If the label is missing or the type of cartridge is inappropriate then it may not be used under any circumstances; it will provide little or no protection to the wearer.

### **Danger Signals Indicating Possible Respirator Failure**

If any of the danger signals in the following list are experienced while wearing a respirator, immediately return to a fresh air environment. The cartridges or filters may be inappropriate or used up, or abnormal conditions may be creating vapor concentrations which are beyond the limits of the cartridges or filters. Danger is indicated when the individual subject to exposure:

- o Smells or tastes chemicals, or if eyes, nose, or throat become irritated;
- o Has difficulty breathing;
- o Notices that the breathing air becomes uncomfortably warm;
- o Experiences headaches, dizziness, cramps, nausea, or blurred vision;
- o Experiences changes in complexion or skin discoloration;
- o Experiences changes in motor coordination, personality, or demeanor;
- o Experiences changes in speech ability or pattern;
- o Experiences excessive salivation or changes in pupillary response.

### **Qualitative Respirator Fit Test**

Qualitative fit testing of each respirator must be conducted before the respirator may be used to check that a good fit is still obtained. The following steps should be taken in qualitative fit test of the respirator.

1. Don the facepiece with cartridge or filters in place. Pull straps together and equally to avoid distorting the mask.
2. Adjust the facepiece. Do not over-tighten it.

3. Negative Pressure Leak Check: Close off both inlet connections with palms of hands, inhale slowly, and hold breath momentarily. No leakage should be detected and the facepiece should be drawn slightly to the face.
4. Positive Pressure Leak Check: Close opening in the exhalation valve guard by placing palm of one hand over face of guard; exhale slowly maintaining slight positive pressure. No leakage should be detected between the face seal and the face.
5. Should any leakage be noted:
  - a) Adjust the headstraps and facepiece slightly; recheck for leakage.
  - b) Check condition of exhalation valve and seat. Check that both inlet gaskets are present and in proper condition.
  - c) In the event the facepiece cannot be adjusted so there is no leakage, DO NOT ENTER THE AREA REQUIRING PROTECTION. Due to your particular facial features, a different style or size facepiece may be required to obtain a proper facial fit.

Note: Failure to perform a qualitative fit test of the respirator each time the respirator is donned may result in little or no respiratory protection.

### **Inspection, Cleaning, and Storage**

The respirator should be inspected, cleaned, and properly stored after use each day. The following steps are the basic elements of each procedure:

#### **A. Inspection**

1. Examine face seal for rips, tears, holes, deformation, or stiffness.
2. Examine facepiece plastic center shell for cracks, missing components, or damaged threads.
3. Examine harness for breaks, cuts, frays, tears, and missing or damaged hardware.
4. Examine inhalation and exhalation valves and valve seats for cuts, cracks, or foreign matter which may not allow the valve to close completely. Check that valves are properly installed and are not distorted.
5. Examine cartridges for signs of abuse or damage. Discard damaged items.
6. Any respirator malfunction or deficiencies noted must be reported to the Health and Safety Coordinator who will issue a new respirator or correct the deficiencies using only approved spare parts from the manufacturer of the specific model in need of repair. Spare parts from any other manufacturer may not be used under any conditions. Instructions in the manual

provided by the manufacturer should be followed when the respirator needs repairing or replacing.

#### B. Cleaning

1. Unthread cartridges or filters.
2. Wash the facepiece with warm water and a mild detergent after each use.
3. Disinfect the facepiece if it was used by another person. The mask should routinely (once per month) be disinfected even if the respirator is used solely by one individual. A hypochlorite solution may be used (i.e., 2 tablespoons chlorine bleach per gallon of water for an acceptable solution).
4. After cleaning and air-drying, check that the facepiece is not damaged and that components removed prior to cleaning have been installed properly.

#### C. Storage

1. Place the respirator in its storage box in a heat-sealed or resealable plastic bag. Store flat to prevent the facepiece from taking a permanent "set."
2. Replacement components should be stored in sealed packages in a cool, clean, low-humidity location until ready for use.

The Health and Safety Coordinator will explain ERI's Respiratory Protection Program to each new employee who must wear a respirator. The employee will be asked whether or not he or she understands the information provided. If the company physician has cleared the employee for respirator use and the Health and Safety Coordinator has checked the fit of the respirator, the employee will then be issued a respirator. A written record is signed and dated by the employee and Health and Safety Coordinator and kept in the new employee's Safety Record.

### **WORK ZONES AND SECURITY MEASURES**

The Project Manager will call Underground Services Alert (USA), and the utilities will be marked before any drilling is conducted onsite. The borings will be drilled at safe distances from the utilities. The client will also be advised to have a representative onsite to advise us in selecting locations of borings with respect to utilities or underground structures. ERI assumes no responsibility for utilities not so located. The first 5 feet will be hand-augered before any drilling equipment is operated.

Each of the areas where the borings will be drilled will be designated as Exclusion Zones. Only essential personnel will be allowed into an Exclusion Zone. When it is practical and local topography allows, approximately 25 to 75 feet of space surrounding those Exclusion Zones will be designated as Contamination Reduction Zones.

Cones, wooden barricades, or a suitable alternative will be used to deny public access to these Contamination Reduction Zones. The general public will not be allowed close to the work area under any conditions. If for any reason the safety of a member of the public (e.g., motorist or pedestrian) may be endangered, work will cease until the situation is remedied. Cones and warning signs will be used when necessary to redirect motorists or pedestrians.

## **EXPOSURE MONITORING PLAN**

It is not anticipated that project personnel exposure will exceed the TLVs or PELs of the materials; however, proper personal protective equipment will be worn while working at the site. In addition, the work area will be monitored using a direct-reading combustible gas analyzer or an organic vapor meter to detect the concentration of the volatile hydrocarbons in the ambient atmosphere.

If the lowest TLV or PEL is consistently being exceeded in the breathing zone, then a respirator must be worn. If the concentration exceeds 1,000 parts per million (ppm), the use of a respirator is inappropriate and personnel must withdraw from the site.

## **POSSIBLE EXPLOSIVE ATMOSPHERES**

Gasoline has a flammable range from approximately 1.4 to 7.6 percent in air. One percent in air is equivalent to 10,000 ppm; thus, the lower explosive limit (LEL) is 14,000 ppm. Normally explosive levels may be reached in tanks, pits, or other confined spaces. Any area suspected of containing potentially explosive levels of gasoline will be evaluated with an intrinsically safe or explosion-proof combustible gas indicator (CGI). Personnel response will be based on the following action levels from CGI readings:

- Less than 10 percent of LEL\* - then Continue activities and monitoring
- 10 to 25 percent of LEL - then Continue monitoring with extreme caution as higher levels are encountered
- Greater than 25 percent of LEL - then Explosion hazard. Cease activities and vacate area immediately

\* CGI readings in percent of lower explosive limit

If an explosion potential is present onsite beyond 25 percent of the LEL, then all ERI's personnel and subcontractors must immediately withdraw from the site. The hazard potential will be evaluated by ERI's management, and a plan of action will be assessed.

## **DECONTAMINATION PROCEDURES**

Drilling equipment and personal protective equipment will undergo gross decontamination onsite. This gross decontamination will include washing contaminated equipment with a trisodium phosphate (TSP) solution. Steam-cleaning is an acceptable alternative.



## EMERGENCY RESPONSE PROCEDURES

In the event of a fire, explosion, or property damage, ERI will be immediately notified. If necessary, local fire or response agencies will be called.

In the event of an accident resulting in physical injury, first aid will be administered, and the injured worker will be transported to the nearest hospital or emergency medical clinic for emergency treatment. A physician's attention is required regardless of the severity of the injury.

### Overt Personnel Exposure

If overt personnel exposure occurs during the project, typical responses should include the following:

- |                               |   |
|-------------------------------|---|
| Skin or Eye Contact:          | Wash and rinse affected area thoroughly with copious amounts of soap and water, then provide appropriate medical attention. Eyes and skin should be rinsed for a minimum of 15 minutes upon chemical contamination. |
| Inhalation:                   | Move to fresh air and, if necessary, decontaminate and transport to emergency hospital.   |
| Ingestion:                    | Decontaminate and transport to emergency hospital.  |
| Puncture Wound or Laceration: | Decontaminate and transport to emergency hospital.  |

## EMERGENCY TELEPHONE NUMBERS

Fire and Police ..... 911  
Hospital ..... (510) 522-3700

Alameda Hospital  
2070 Clinton Ave.  
Alameda, California

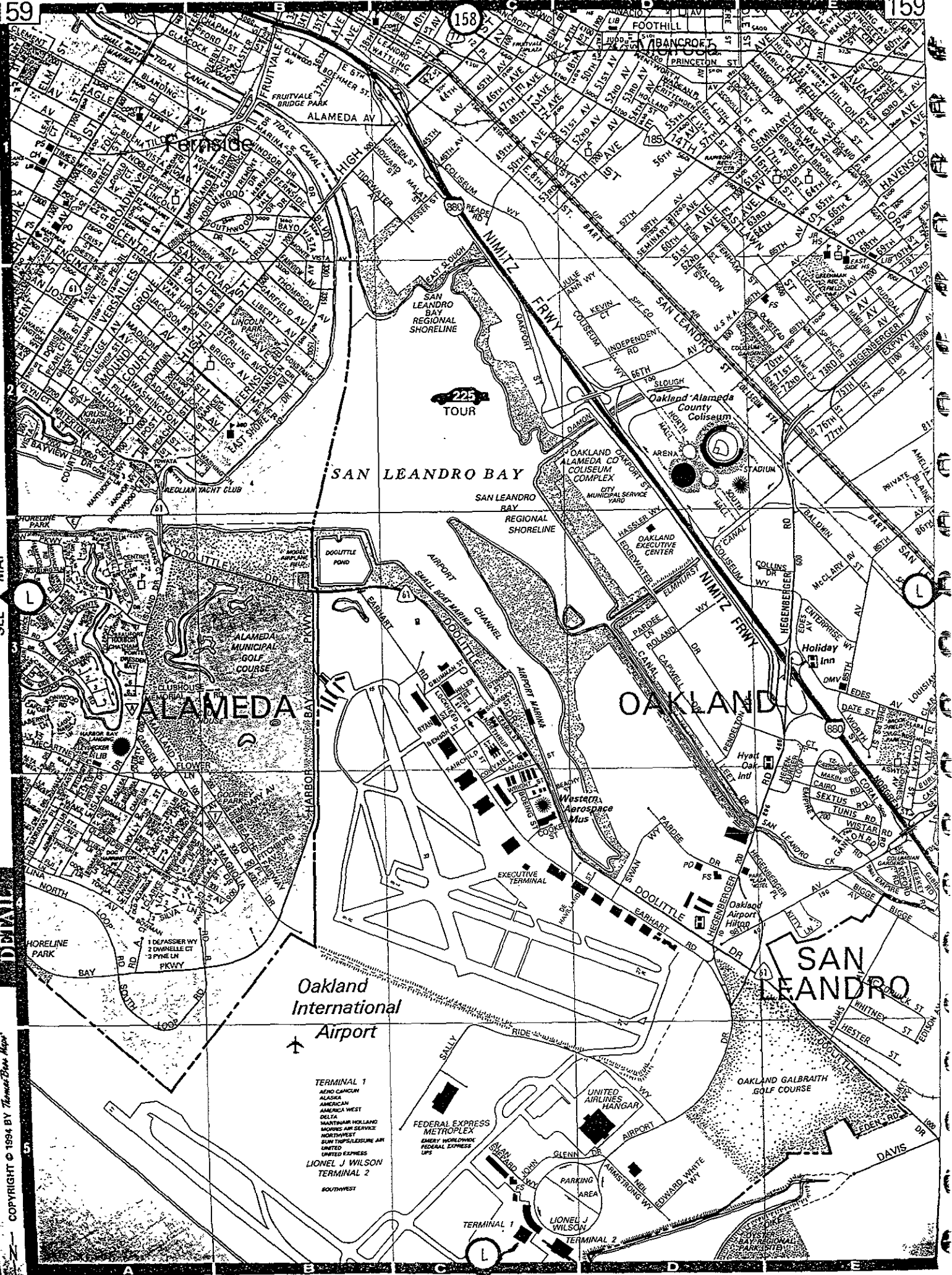
Travel northwest (right turn from site) on E. 14th to 29th Ave. (Park Street). Left (southwest) on 29th Street (over the bridge to Alameda, where the street becomes Park St.) to Clinton Ave. Right on Clinton (2 blocks) to the hospital. The hospital will be on the left hand side of the street.

ALAMEDA-OAKLAND

SEE MAP

DETAIL

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Kenside

225 TOUR

SAN LEANDRO BAY

OAKLAND

SAN LEANDRO

Oakland International Airport

- TERMINAL 1
- AERO CANCUN
- ALASKA
- AMERICAN
- AMERICAN WEST
- DELTA
- HAWAIIAN HOLLAND
- MORRIS AIR SERVICE
- NORTHWEST
- SUN TRIP/SALESURE AIR
- UNITED
- UNITED EXPRESS
- LIONEL J WILSON
- TERMINAL 2
- SOUTHWEST

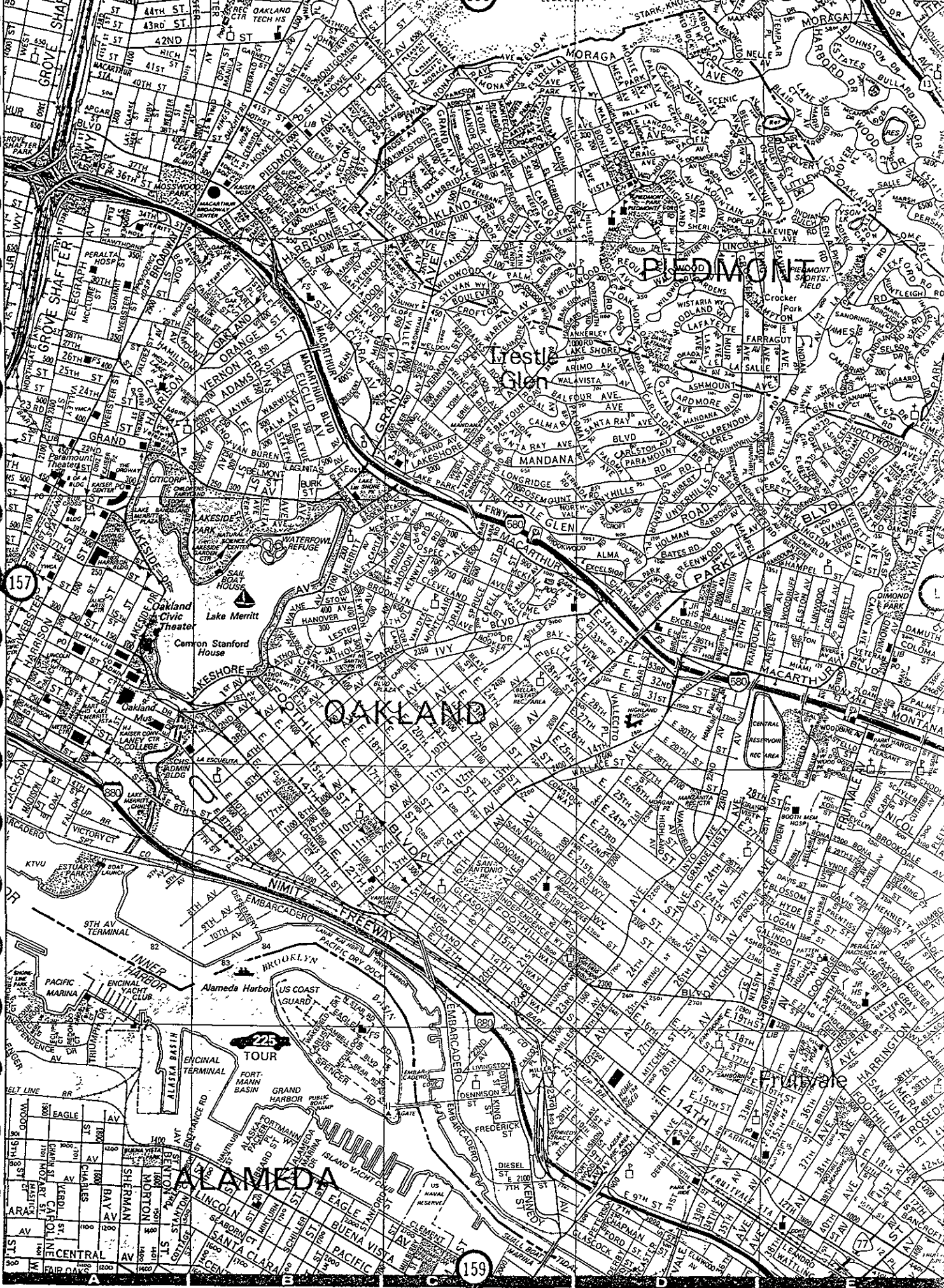
FEDERAL EXPRESS METROPLEX

UNITED AIRLINES HANGAR

TERMINAL 1

TERMINAL 2

SEE MAP



**Additional Contingency Telephone Numbers**

ENVIRONMENTAL RESOLUTIONS, INC, Novato . . . . .	<u>(800) 382-9105</u>
ENVIRONMENTAL RESOLUTIONS, INC, Irvine . . . . .	<u>(800) 499-8950</u>
Occupational Safety and Health Administration (OSHA) . . . . .	<u>(510) 568-8602</u>
Chemical Transportation Emergency Center (CHEMTREC) . . . . .	<u>(800) 424-9300</u>

Note: CHEMTREC is a public service of the Chemical Manufacturer's Association. CHEMTREC can usually provide hazard information, warnings, and guidance when given the identification number or the name of the product and the nature of the problem. CHEMTREC can also get personnel in contact with the appropriate experts.

This Site Safety Plan has been reviewed by the following persons:

Project Manager: *Max A. Bump*

Health and Safety Coordinator: *Max A. Bump*

Subcontractors: \_\_\_\_\_

Subcontractors: \_\_\_\_\_

Subcontractors: \_\_\_\_\_

Subcontractors: \_\_\_\_\_

Subcontractors: \_\_\_\_\_

Subcontractors: \_\_\_\_\_

Amendments or modifications to this plan may be written on a separate page and attached to this plan. Any amendments or modifications must be reviewed and approved by the personnel named above.

EXXON UNLEADED 87 CG

DATE ISSUED: 01/30/95  
SUPERSEDES DATE: 10/16/94**MATERIAL SAFETY DATA SHEET**

EXXON COMPANY, U.S.A. P.O. BOX 2180 HOUSTON, TX 77252-2180

**A. IDENTIFICATION AND EMERGENCY INFORMATION**

THIS PRODUCT DOES NOT MEET THE REQUIREMENTS FOR REFORMULATED GASOLINE AND MAY NOT BE USED IN ANY REFORMULATED GASOLINE COVERED AREA.

PRODUCT NAME  
EXXON UNLEADED 87 CGPRODUCT CODE  
027884 - 15371PRODUCT CATEGORY  
Conventional Motor GasolinePRODUCT APPEARANCE AND ODOR  
Clear colored liquid (typically orange)  
Gasoline hydrocarbon odorMEDICAL EMERGENCY TELEPHONE NUMBER  
(713) 656-3424**B. COMPONENTS AND HAZARD INFORMATION**

COMPONENTS	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION
------------	-----------------------	---------------------------

Product is a variable complex mixture of components, principally hydrocarbons, blended to performance, rather than chemical specifications and typically contains the following:

Naphtha (petroleum), light catalytic cracked	64741-55-5	
Naphtha (petroleum), heavy catalytic cracked	64741-54-4	
Naphtha (petroleum), full-range reformed	68919-37-9	
Naphtha (petroleum), full-range alkylate	64741-64-6	
Naphtha (petroleum), sweetened	64741-87-3	
Butane	106-97-8	

Proprietary additives Proprietary

It may include varying amounts of the following identifiable components:

Benzene	71-43-2	0-4.9%
Cumene	98-82-8	0-1%
Cyclohexane	110-82-7	0-1%
Ethylbenzene	100-41-4	0-3%
Naphthalene	91-20-3	0-1%
n-Hexane	110-54-3	0-3%
Toluene	108-88-3	0-20%
Xylene	1330-20-7	0-10%

It may also include varying amounts of oxygenates such as the following:

Di-isopropyl ether	108-20-3	0-18%
Ethanol	64-17-5	0-10%
Ethyl-tertiary-butyl ether	637-92-3	0-18.5%
Methyl-tertiary-butyl ether	1634-04-4	0-16%
Tertiary-amyl-methyl-ether	994-05-8	0-18.5%

All components of this product are listed on the U.S. TSCA inventory.

## EXXON UNLEADED 87 CG

See Section E for Health and Hazard Information.

See Section H for additional Environmental information.

## HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	Flammability	Reactivity	BASIS
1	3	0	Recommended by Exxon

EXPOSURE LIMIT FOR TOTAL PRODUCT  
100 ppm (300 mg/m<sup>3</sup>) for an 8-hour  
workday

BASIS  
Recommended by Exxon. OSHA Regulation  
29 CFR 1910.1000 and the American  
Conference of Governmental Industrial  
Hygienists (ACGIH) list Threshold Limit  
Values (TLV) of 300 ppm (900 mg/m<sup>3</sup>) for  
gasoline for an 8-hour workday; 500 ppm  
(1500 mg/m<sup>3</sup>) STEL.

50 ppm (180 mg/m<sup>3</sup>) for n-hexane  
for an 8-hour workday

OSHA Regulation 29 CFR 1910.1000 and  
recommended by the American Conference  
of Governmental Industrial Hygienists  
(ACGIH)

50 ppm (187 mg/m<sup>3</sup>) for toluene  
(skin) for an 8-hour workday

Recommended by the American Conference  
of Governmental Industrial Hygienists  
(ACGIH)

50 ppm (180 mg/m<sup>3</sup>) for methyl-  
tertiary-butyl ether for a 15  
minute STEL

Recommended by Exxon

The airborne benzene level shall  
not exceed 1 ppm for an 8-hour  
workday; 5 ppm STEL

OSHA Regulation 29 CFR 1910.1028

### C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

#### EYE CONTACT

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

#### SKIN

In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry-clean clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

#### INHALATION

If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

#### INGESTION

If ingested, DO NOT induce vomiting; call a physician immediately.

### D. FIRE AND EXPLOSION HAZARD INFORMATION

#### UNUSUAL FIRE AND EXPLOSION HAZARD

EXTREMELY FLAMMABLE VAPORS CAN TRAVEL AND EXPLODE

FLASH POINT (MINIMUM)  
FLAMMABLE - Per DOT 49 CFR 173.120

AUTOIGNITION TEMPERATURE

## EXXON UNLEADED 87 CG

National Fire Protection  
Association's Guide on  
Hazardous Materials

## NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION

Health Flammability Reactivity  
1 3 0

BASIS

Recommended by the National Fire  
Protection Association

## HANDLING PRECAUTIONS

This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

Keep product away from ignition sources, such as heat, sparks, pilot lights, static electricity, and open flames.

## FLAMMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR)

Estimated values: Lower Flammable Limit 1.4% Upper Flammable Limit 7.6%

## EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Tenth Edition (1991):

Use dry chemical, foam or carbon dioxide to extinguish the fire. Water may be ineffective, but water should be used to keep fire-exposed containers cool. If a leak or spill has ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

NOTE: The inclusion of the phrase "water may be ineffective" is to indicate that although water can be used to cool and protect exposed material, water may not extinguish the fire unless used under favorable conditions by experienced fire fighters trained in fighting all types of flammable liquid fires.

## DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

## "EMPTY" CONTAINER WARNING

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

## E. HEALTH AND HAZARD INFORMATION

## VARIABILITY AMONG INDIVIDUALS

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.



## EXXON UNLEADED 87 CG

**EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)**

High vapor concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

Prolonged or repeated liquid contact with the skin will dry and defat the skin, leading to possible irritation and dermatitis.

**NATURE OF HAZARD AND TOXICITY INFORMATION**

**WARNING:** Concentrated, prolonged or deliberate inhalation of this product may cause brain and nervous system damage. Prolonged and repeated exposure of pregnant animals to high levels of toluene (levels greater than approximately 1500 ppm) has been reported to cause adverse fetal developmental effects.

Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

This product may contain up to a maximum of 4.9 weight percent benzene, CAS # 71-43-2, as a natural constituent of various gasoline blend components. Benzene can cause anemia and other blood diseases, including leukemia (cancer of the blood-forming system), after prolonged or repeated exposures at high concentrations (e.g., 50-500 ppm). It has also caused fetal defects in tests on laboratory animals.

Contains light hydrocarbon components. Lifetime studies by the American Petroleum Institute have shown that kidney damage and kidney cancer can occur in male rats after prolonged inhalation exposures at elevated concentrations of total gasoline. Kidneys of mice and female rats were unaffected. The U.S. EPA Risk Assessment Forum has concluded that the male rat kidney tumor results are not relevant for humans. Total gasoline exposure also produced liver tumors in female mice only. The implication of these data for humans has not been determined. Certain components, such as normal hexane, may also affect the nervous system at high concentrations (e.g., 1000-1500 ppm).

The presence of n-hexane (normal-hexane) in this product represents a distinct hazard of producing peripheral polyneuropathy, a progressive disorder of the nervous system, which with sufficient high exposure has the potential of becoming irreversible. This disorder has been observed in individuals exposed repeatedly to high vapor concentrations (1000-1500 ppm) of n-hexane over a period of several months. Exposure to this product should be controlled to keep the maximum level below 100 ppm, which will result in n-hexane exposure of 50 ppm or less. The OSHA 8-hour Time Weighted Average-Permissible Exposure Limit (TWA-PEL) is 50 ppm for n-hexane.

Simultaneous exposure to the vapors of n-hexane and methyl ethyl ketone (MEK) or to n-hexane and methyl isobutyl ketone (MIBK) increases the risk of adverse effects from n-hexane. Evidence in laboratory animals and humans indicates that in the presence of MEK or MIBK the neuropathy associated with n-hexane is produced in a shorter time or at lower exposure concentrations. This interaction has been reported when the exposure to n-hexane is below the American Conference of Governmental Industrial Hygienists (ACGIH) limit of 50 ppm and MEK is below the ACGIH limit of 200 ppm or when MIBK is below the ACGIH limit of 50 ppm.

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

Inhalation of components of exhaust from burning, such as carbon monoxide, may cause death at high concentrations. Exposure to the exhaust of this fuel should be minimized.

**PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE**

Benzene - Individuals with liver disease may be more susceptible to toxic effects.



## EXXON UNLEADED 87 CG

Hexane - Individuals with neurological disease should avoid exposure.

Petroleum Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

## F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

## BOILING RANGE

Approximately 21°C (70°F) IBP  
to 225°C (437°F) FBP

## VAPOR PRESSURE

Varies seasonally from  
approximately 5 to 15 psi  
Reid Vapor Pressure

## SPECIFIC GRAVITY (15.6°C/15.6°C)

Approximately 0.74

## VAPOR DENSITY (AIR = 1)

Approximately 5

## MOLECULAR WEIGHT

Complex mixture, components vary  
from approximately 45 to 185

## PERCENT VOLATILE BY VOLUME

100

## pH

Essentially neutral

EVAPORATION RATE @ 1 ATM. AND 25°C  
(77°F) (n-BUTYL ACETATE = 1)

Approximately 10-11

## POUR, CONGEALING OR MELTING POINT

Less than -38°C (-36°F)  
Pour Point by ASTM D 97

SOLUBILITY IN WATER @ 1 ATM.  
AND 25°C (77°F)

Negligible; less than 0.1%

## VISCOSITY

Approximately 0.5 cSt @ 25°C

## G. REACTIVITY

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc., as this presents a serious explosion hazard.

## H. ENVIRONMENTAL INFORMATION

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, flammable vapors from absorbed material.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:

## REPORTABLE QUANTITY (RQ), EPA REGULATION 40 CFR 302 (CERCLA Section 102)

The RQ for:

Benzene is 10 lbs. This product may contain up to 4.9% benzene.

Cumene is 5,000 lbs. This product may contain up to 1% cumene.

Cyclohexane is 1,000 lbs. This product may contain up to 1% cyclohexane.

Ethylbenzene is 1,000 lbs. This product may contain up to 3% ethylbenzene.

Methyl-tertiary-butyl ether is 1 lb. This product may contain up to 16%

methyl-tertiary-butyl ether.

Naphthalene is 100 lbs. This product may contain up to 1% naphthalene.

n-Hexane is 1 lb. This product may contain up to 3% n-hexane.

## EXXON UNLEADED 87 CG

Toluene is 1,000 lbs. This product may contain up to 20% toluene.  
Xylene is 1,000 lbs. This product may contain up to 10% xylene.

**THRESHOLD PLANNING QUANTITY (TPQ). EPA REGULATION 40 CFR 355  
(SARA Sections 301-304)**

No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

**TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313)**

This product may contain:

- Up to 4.9% benzene.
- Up to 1% cumene.
- Up to 1% cyclohexane.
- Up to 3% ethylbenzene.
- Up to 16% methyl-tertiary-butyl ether.
- Up to 1% naphthalene.
- Up to 3% n-hexane.
- Up to 20% toluene.
- Up to 10% xylene.

**HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Sections 311-312)**

EPA HAZARD CLASSIFICATION CODE:	Acute Hazard XXX	Chronic Hazard XXX	Fire Hazard XXX	Pressure Hazard	Reactive Hazard	Not Applicable
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**TOXIC SUBSTANCE CONTROL ACT**

This product may contain the following TSCA 12b reportable chemical substance(s):

- Aniline CAS # 62-53-3
- Cumene CAS # 98-82-8
- C-9 Aromatic
- Isopropanol (IPA) CAS # 67-63-0
- Methyl-tertiary-butyl ether (MTBE) CAS # 1634-04-4

## I. PROTECTION AND PRECAUTIONS

**VENTILATION**

Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources.

**RESPIRATORY PROTECTION**

Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

**PROTECTIVE GLOVES**

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

**EYE PROTECTION**

Use splash goggles or face shield when eye contact may occur.

**OTHER PROTECTIVE EQUIPMENT**

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

**WORK PRACTICES / ENGINEERING CONTROLS**

Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. Adequate ventilation required sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Tanks that have been in leaded gasoline service may have lead-containing residue. Special precautions needed in cleaning. See American Petroleum Institute publications 2013, 2015 and 2015A. No smoking, flame or other ignition sources.

To minimize fire or explosion risk from static charge accumulation and discharge, effectively ground product transfer system in accordance with the National Fire Protection Association standard for petroleum products.

For use as a motor fuel only. Do not use as a cleaning solvent, or thinner.

## EXXON UNLEADED 87 CG

liquid gasoline aspirated into the lungs may cause potentially fatal chemical pneumonitis.

In order to prevent fire or explosion hazards, use appropriate equipment.

Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70). This document is available from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.

**PERSONAL HYGIENE**

Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

**J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION****TRANSPORTATION INCIDENT INFORMATION**

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents.

**U.S. DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION**

Gasoline, 3, UN 1203, II

**OSHA REQUIRED LABEL INFORMATION**

In compliance with hazard and right-to-know requirements, where applicable OSHA Hazard Warnings may be found on the label, bill of lading or invoice accompanying this shipment.

**DANGER!**

**EXTREMELY FLAMMABLE**

**LONG-TERM, REPEATED EXPOSURE MAY CAUSE  
CANCER, BLOOD AND NERVOUS SYSTEM DAMAGE**

**CONTAINS: BENZENE**

Note: Product label may contain non-OSHA related information also.

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued. Exxon does not warrant or guarantee their accuracy or reliability, and Exxon shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container.

The Environmental Information included under Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Exxon Company, U.S.A. in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Exxon's interpretation of the available data.

FOR LUBRICANTS TECHNICAL ASSISTANCE CALL: 1-800-443-9966

EXXON UNLEADED 87 CG

FOR FUELS TECHNICAL ASSISTANCE CALL: 713-656-4955

FOR AN MSDS OR ASSISTANCE WITH AN MSDS, DIRECT INQUIRIES TO THE ADDRESS BELOW OR CALL:

MARKETING TECHNICAL SERVICES  
EXXON COMPANY, U.S.A.  
ROOM 2355  
P. O. BOX 2180  
HOUSTON, TX 77252-2180  
(713) 656-5949

## EXXON LOW S NO. 2 DIESEL

**EXXON COMPANY, U.S.A.**  
A DIVISION OF EXXON CORPORATION

DATE ISSUED: 09/15/93  
SUPERSEDES DATE: 07/27/93

**MATERIAL SAFETY DATA SHEET**

EXXON COMPANY, U.S.A. P.O. BOX 2180 HOUSTON, TX 77252-2180

**A. IDENTIFICATION AND EMERGENCY INFORMATION**

<b>PRODUCT NAME</b> EXXON LOW S NO. 2 DIESEL	<b>PRODUCT CODE</b> 072716 - 00788
<b>PRODUCT CATEGORY</b> Petroleum Distillate Fuel	
<b>PRODUCT APPEARANCE AND ODOR</b> Clear liquid, yellow color Faint petroleum hydrocarbon odor	
<b>MEDICAL EMERGENCY TELEPHONE NUMBER</b> (713) 656-3424	

**B. COMPONENTS AND HAZARD INFORMATION**

COMPONENTS	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION
Fuels, diesel, no. 2	68476-34-6	100%

All components of this product are listed on the U.S. TSCA inventory.  
See Section E for Health and Hazard Information.  
See Section H for additional Environmental Information.

**HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)**

Health	Flammability	Reactivity	BASIS
1	2	0	Recommended by Exxon

**EXPOSURE LIMIT FOR TOTAL PRODUCT** BASIS  
100 ppm (900 mg/m<sup>3</sup>) for an 8-hour workday Recommended by Exxon

**C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES****EYE CONTACT**

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

**SKIN**

In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry-clean clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

**INHALATION**

Overexposure may cause gasping, nausea and disorientation.

Vapor pressure is very low. Vapor inhalation under ambient conditions is

## EXXON LOW 5 NO. 2 DIESEL

normally not a problem. If overcome by vapor from hot product, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

**INGESTION**

If ingested, DO NOT induce vomiting; call a physician immediately.

**D. FIRE AND EXPLOSION HAZARD INFORMATION****FLASH POINT (MINIMUM)**

COMBUSTIBLE - Per DOT 49 CFR 173.115  
52°C (125°F)  
ASTM D 93, Pensky Martens Closed Cup

**AUTOIGNITION TEMPERATURE**

Greater than 204°C (400°F)

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION**

Health Flammability Reactivity  
0 2 0

**BASIS**  
Recommended by the National Fire  
Protection Association

**HANDLING PRECAUTIONS**

This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

Keep product away from ignition sources, such as heat, sparks, pilot lights, static electricity, and open flames.

**FLAMMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR)**

Estimated values: Lower Flammable Limit 0.9% Upper Flammable Limit 7%

**EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES**

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Tenth Edition (1991):

Use dry chemical, foam or carbon dioxide to extinguish the fire. Water may be ineffective, but water should be used to keep fire-exposed containers cool. If a leak or spill has ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

**NOTE:** The inclusion of the phrase "water may be ineffective" is to indicate that although water can be used to cool and protect exposed material, water may not extinguish the fire unless used under favorable conditions by experienced fire fighters trained in fighting all types of flammable liquid fires.

**DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS**

Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

**"EMPTY" CONTAINER WARNING**

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

## EXXON LOW S NO. 2 DIESEL

**E. HEALTH AND HAZARD INFORMATION****VARIABILITY AMONG INDIVIDUALS**

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

**EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)**

Prolonged or repeated liquid contact with the skin will dry and defat the skin, leading to possible irritation and dermatitis. High vapor concentrations (greater than approximately 1000 ppm, attainable at temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

**NATURE OF HAZARD AND TOXICITY INFORMATION**

Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

Lifetime skin painting studies conducted by the American Petroleum Institute, Exxon and others have shown that similar products boiling between 175-370°C (350-700°F) usually produce skin tumors and/or skin cancer in laboratory mice. The degree of carcinogenic response was weak to moderate with a relatively long latent period. The implications of these results for humans have not been determined.

Limited studies on oils that are very active carcinogens have shown that washing the animals' skin with soap and water between applications greatly reduces tumor formation. These studies demonstrate the effectiveness of cleansing the skin after contact.

Potential risks to humans can be minimized by observing good work practices and personal hygiene procedures generally recommended for petroleum products. See Section I for recommended protection and precautions.

Contains light hydrocarbon components. Lifetime studies by the American Petroleum Institute have shown that kidney damage and kidney cancer can occur in male rats after prolonged inhalation exposures at elevated concentrations of total gasoline. Kidneys of mice and female rats were unaffected. The U.S. EPA Risk Assessment Forum has concluded that the male rat kidney tumor results are not relevant for humans. Total gasoline exposure also produced liver tumors in female mice only. The implication of these data for humans has not been determined. Certain components, such as normal hexane, may also affect the nervous system at high concentrations (e.g., 1000-1500 ppm).

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

Inhalation of components of exhaust from burning, such as carbon monoxide, may cause death at high concentrations.

Long-term repeated exposure of laboratory animals to whole diesel exhaust has resulted in an increased incidence of lung cancer.

Exposure to exhaust from burning and diesel exhaust should be minimized.

**PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE**

Petroleum Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

EXXON LOW S NO. 2 DIESEL

**F. PHYSICAL DATA**

The following data are approximate or typical values and should not be used for precise design purposes.

**BOILING RANGE**  
160-350°C (320-650°F)

**VAPOR PRESSURE**  
Less than 1 mm Hg @ 20°C

**SPECIFIC GRAVITY (15.6°C/15.6°C)**  
0.86

**VAPOR DENSITY (AIR = 1)**  
Greater than 5

**MOLECULAR WEIGHT**  
Approximately 212 average

**PERCENT VOLATILE BY VOLUME**  
100

**pH**  
Essentially neutral

**EVAPORATION RATE @ 1 ATM. AND 25°C (77°F) (n-BUTYL ACETATE = 1)**  
0.02

**POUR, CONGEALING OR MELTING POINT**  
-18°C (0°F)  
Pour Point by ASTM D 97

**SOLUBILITY IN WATER @ 1 ATM. AND 25°C (77°F)**  
Negligible; less than 0.1%

**VISCOSITY**  
1.9 to 4.1 cSt @ 40°C

**G. REACTIVITY**

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc., as this presents a serious explosion hazard.

**H. ENVIRONMENTAL INFORMATION**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**  
Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas.  
Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material.

**THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:**

**REPORTABLE QUANTITY (RQ), EPA REGULATION 40 CFR 302 (CERCLA Section 102)**  
No RQ for product or any constituent greater than 1% or 0.1% (carcinogen).

**THRESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFR 355 (SARA Sections 301-304)**  
No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

**TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313)**  
No toxic chemical is present greater than 1% or 0.1% (carcinogen).

**HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Sections 311-312)**

<b>EPA HAZARD CLASSIFICATION CODE:</b>	Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard	Not Applicable
	XXX	XXX	XXX			



## EXXON LOW S NO. 2 DIESEL

**I. PROTECTION AND PRECAUTIONS****VENTILATION**

Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air.

**RESPIRATORY PROTECTION**

Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

**PROTECTIVE GLOVES**

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

**EYE PROTECTION**

Use splash goggles or face shield when eye contact may occur.

**OTHER PROTECTIVE EQUIPMENT**

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

**WORK PRACTICES / ENGINEERING CONTROLS**

Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants.

In order to prevent fire or explosion hazards, use appropriate equipment.

Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70). This document is available from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.

**PERSONAL HYGIENE**

Minimize breathing vapor, mist or fumes. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean before re-use; discard if oil-soaked. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

**J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION****TRANSPORTATION INCIDENT INFORMATION**

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents.

**U.S. DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION**

Transported by highway or rail:

Bulk packagings (capacity greater than 119 gallons)  
Fuel Oil, Combustible Liquid, NA 1993, III

Non-bulk packagings (capacity less than or equal to 119 gallons)  
Not regulated

Transported by air or marine vessel:

Bulk or non-bulk packagings  
Gas Oil, 3, UN 1202, III

EXXON LOW S NO. 2 DIESEL

OSHA REQUIRED LABEL INFORMATION

In compliance with hazard and right-to-know requirements, where applicable OSHA Hazard Warnings may be found on the label, bill of lading or invoice accompanying this shipment.

DANGER!

COMBUSTIBLE

LONG-TERM, REPEATED EXPOSURE MAY  
CAUSE SKIN CANCER

Note: Product label may contain non-OSHA related information also.

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued. Exxon does not warrant or guarantee their accuracy or reliability, and Exxon shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container.

The Environmental Information included under Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Exxon Company, U.S.A. in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems; together with Exxon's interpretation of the available data.

FOR LUBRICANTS TECHNICAL ASSISTANCE CALL: 1-800-443-9966

FOR FUELS TECHNICAL ASSISTANCE CALL: 713-656-5827

FOR AN MSDS OR ASSISTANCE WITH AN MSDS, DIRECT INQUIRIES TO THE ADDRESS BELOW OR CALL:

MARKETING TECHNICAL SERVICES  
EXXON COMPANY, U.S.A.  
ROOM 2355  
P. O. BOX 2180  
HOUSTON, TX 77252-2180  
(713) 656-5949

## EXXON PLUS 89 CG

**EXXON COMPANY, U.S.A.**  
A DIVISION OF EXXON CORPORATION

DATE ISSUED: 01/30/95  
SUPERSEDES DATE: 10/16/94

**MATERIAL SAFETY DATA SHEET**

EXXON COMPANY, U.S.A. P.O. BOX 2180 HOUSTON, TX 77252-2180

**A. IDENTIFICATION AND EMERGENCY INFORMATION**

THIS PRODUCT DOES NOT MEET THE REQUIREMENTS FOR REFORMULATED GASOLINE AND MAY NOT BE USED IN ANY REFORMULATED GASOLINE COVERED AREA.

PRODUCT NAME  
EXXON PLUS 89 CG

PRODUCT CODE  
020850 - 16200

PRODUCT CATEGORY  
Conventional Motor Gasoline

PRODUCT APPEARANCE AND ODOR  
Clear colored liquid (typically orange)  
Gasoline hydrocarbon odor

MEDICAL EMERGENCY TELEPHONE NUMBER  
(713) 656-3424

**B. COMPONENTS AND HAZARD INFORMATION**

COMPONENTS	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION
Product is a variable complex mixture of components, principally hydrocarbons, blended to performance, rather than chemical specifications and typically contains the following:		
Naphtha (petroleum), light catalytic cracked	64741-55-5	
Naphtha (petroleum), heavy catalytic cracked	64741-54-4	
Naphtha (petroleum), full-range reformed	68919-37-9	
Naphtha (petroleum), full-range alkylate	64741-64-6	
Naphtha (petroleum), sweetened	64741-87-3	
Butane	106-97-8	
Proprietary additives	Proprietary	

It may include varying amounts of the following identifiable components:

Benzene	71-43-2	0-4.9%
Cumene	98-82-8	0-1%
Cyclohexane	110-82-7	0-1%
Ethylbenzene	100-41-4	0-3%
Naphthalene	91-20-3	0-1%
n-Hexane	110-54-3	0-3%
Toluene	108-88-3	0-20%
Xylene	1330-20-7	0-10%

It may also include varying amounts of oxygenates such as the following:

D1-Isopropyl ether	108-20-3	0-18%
Ethanol	64-17-5	0-10%
Ethyl-tertiary-butyl ether	637-92-3	0-18.5%
Methyl-tertiary-butyl ether	1634-04-4	0-16%
Tertiary-amyl-methyl-ether	994-05-8	0-18.5%

All components of this product are listed on the U.S. TSCA Inventory.

**EXXON PLUS 89 CG**

See Section E for Health and Hazard Information.

See Section H for additional Environmental information.

**HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)**

Health	Flammability	Reactivity	BASIS
1	3	0	Recommended by Exxon

**EXPOSURE LIMIT FOR TOTAL PRODUCT**  
100 ppm (300 mg/m<sup>3</sup>) for an 8-hour workday

**BASIS**  
Recommended by Exxon. OSHA Regulation 29 CFR 1910.1000 and the American Conference of Governmental Industrial Hygienists (ACGIH) 11st Threshold Limit Values (TLV) of 300 ppm (900 mg/m<sup>3</sup>) for gasoline for an 8-hour workday; 500 ppm (1500 mg/m<sup>3</sup>) STEL.

50 ppm (180 mg/m<sup>3</sup>) for n-hexane for an 8-hour workday

OSHA Regulation 29 CFR 1910.1000 and recommended by the American Conference of Governmental Industrial Hygienists (ACGIH)

50 ppm (187 mg/m<sup>3</sup>) for toluene (skin) for an 8-hour workday

Recommended by the American Conference of Governmental Industrial Hygienists (ACGIH)

50 ppm (180 mg/m<sup>3</sup>) for methyl-tertiary-butyl ether for a 15 minute STEL

Recommended by Exxon

The airborne benzene level shall not exceed 1 ppm for an 8-hour workday; 5 ppm STEL

OSHA Regulation 29 CFR 1910.1028

**C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES**

**EYE CONTACT**

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

**SKIN**

In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry-clean clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

**INHALATION**

If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

**INGESTION**

If ingested, DO NOT induce vomiting; call a physician immediately.

**D. FIRE AND EXPLOSION HAZARD INFORMATION**

**UNUSUAL FIRE AND EXPLOSION HAZARD**

**EXTREMELY FLAMMABLE VAPORS CAN TRAVEL AND EXPLODE**

**FLASH POINT (MINIMUM)**  
FLAMMABLE - Per DOT 49 CFR 173.120

**AUTOIGNITION TEMPERATURE**

## EXXON PLUS 89 CG

National Fire Protection  
Association's Guide on  
Hazardous Materials

**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION**

Health Flammability Reactivity

1

3

0

BASIS

Recommended by the National Fire  
Protection Association

**HANDLING PRECAUTIONS**

This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

Keep product away from ignition sources, such as heat, sparks, pilot lights, static electricity, and open flames.

**FLAMMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR)**

Estimated values: Lower Flammable Limit 1.4% Upper Flammable Limit 7.6%

**EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES**

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Tenth Edition (1991):

Use dry chemical, foam or carbon dioxide to extinguish the fire. Water may be ineffective, but water should be used to keep fire-exposed containers cool. If a leak or spill has ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

**NOTE:** The inclusion of the phrase "water may be ineffective" is to indicate that although water can be used to cool and protect exposed material, water may not extinguish the fire unless used under favorable conditions by experienced fire fighters trained in fighting all types of flammable liquid fires.

**DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS**

Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

**"EMPTY" CONTAINER WARNING**

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

**E. HEALTH AND HAZARD INFORMATION**

**VARIABILITY AMONG INDIVIDUALS**

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

## EXXON PLUS 89 CG

**EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)**

High vapor concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

Prolonged or repeated liquid contact with the skin will dry and defat the skin, leading to possible irritation and dermatitis.

**NATURE OF HAZARD AND TOXICITY INFORMATION**

**WARNING:** Concentrated, prolonged or deliberate inhalation of this product may cause brain and nervous system damage. Prolonged and repeated exposure of pregnant animals to high levels of toluene (levels greater than approximately 1500 ppm) has been reported to cause adverse fetal developmental effects.

Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

This product may contain up to a maximum of 4.9 weight percent benzene, CAS # 71-43-2, as a natural constituent of various gasoline blend components. Benzene can cause anemia and other blood diseases, including leukemia (cancer of the blood-forming system), after prolonged or repeated exposures at high concentrations (e.g., 50-500 ppm). It has also caused fetal defects in tests on laboratory animals.

Contains light hydrocarbon components. Lifetime studies by the American Petroleum Institute have shown that kidney damage and kidney cancer can occur in male rats after prolonged inhalation exposures at elevated concentrations of total gasoline. Kidneys of mice and female rats were unaffected. The U.S. EPA Risk Assessment Forum has concluded that the male rat kidney tumor results are not relevant for humans. Total gasoline exposure also produced liver tumors in female mice only. The implication of these data for humans has not been determined. Certain components, such as normal hexane, may also affect the nervous system at high concentrations (e.g., 1000-1500 ppm).

The presence of n-hexane (normal-hexane) in this product represents a distinct hazard of producing peripheral polyneuropathy, a progressive disorder of the nervous system, which with sufficient high exposure has the potential of becoming irreversible. This disorder has been observed in individuals exposed repeatedly to high vapor concentrations (1000-1500 ppm) of n-hexane over a period of several months. Exposure to this product should be controlled to keep the maximum level below 100 ppm, which will result in n-hexane exposure of 50 ppm or less. The OSHA 8-hour Time Weighted Average-Permissible Exposure Limit (TWA-PEL) is 50 ppm for n-hexane.

Simultaneous exposure to the vapors of n-hexane and methyl ethyl ketone (MEK) or to n-hexane and methyl isobutyl ketone (MIBK) increases the risk of adverse effects from n-hexane. Evidence in laboratory animals and humans indicates that in the presence of MEK or MIBK the neuropathy associated with n-hexane is produced in a shorter time or at lower exposure concentrations. This interaction has been reported when the exposure to n-hexane is below the American Conference of Governmental Industrial Hygienists (ACGIH) limit of 50 ppm and MEK is below the ACGIH limit of 200 ppm or when MIBK is below the ACGIH limit of 50 ppm.

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

Inhalation of components of exhaust from burning, such as carbon monoxide, may cause death at high concentrations. Exposure to the exhaust of this fuel should be minimized.

**PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE**

Benzene - Individuals with liver disease may be more susceptible to toxic effects.

## EXXON PLUS 89 CG

Hexane - Individuals with neurological disease should avoid exposure.  
 Petroleum Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

## F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

## BOILING RANGE

Approximately 21°C (70°F) IBP  
 to 225°C (437°F) FBP

## VAPOR PRESSURE

Varies seasonally from  
 approximately 5 to 15 psi  
 Reid Vapor Pressure

## SPECIFIC GRAVITY (15.6°C/15.6°C)

Approximately 0.74

## VAPOR DENSITY (AIR = 1)

Approximately 5

## MOLECULAR WEIGHT

Complex mixture, components vary  
 from approximately 45 to 185

## PERCENT VOLATILE BY VOLUME

100

## PH

Essentially neutral

EVAPORATION RATE @ 1 ATM. AND 25°C  
 (77°F) (n-BUTYL ACETATE = 1)  
 Approximately 10-11

## POUR, CONGEALING OR MELTING POINT

Less than -38°C (-36°F)  
 Pour Point by ASTM D 97

SOLUBILITY IN WATER @ 1 ATM.  
 AND 25°C (77°F)  
 Negligible; less than 0.1%

## VISCOSITY

Approximately 0.5 cSt @ 25°C

## G. REACTIVITY

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc., as this presents a serious explosion hazard.

## H. ENVIRONMENTAL INFORMATION

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, flammable vapors from absorbed material.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:

## REPORTABLE QUANTITY (RQ), EPA REGULATION 40 CFR 302 (CERCLA Section 102)

The RQ for:

Benzene is 10 lbs. This product may contain up to 4.9% benzene.  
 Cumene is 5,000 lbs. This product may contain up to 1% cumene.  
 Cyclohexane is 1,000 lbs. This product may contain up to 1% cyclohexane.  
 Ethylbenzene is 1,000 lbs. This product may contain up to 3% ethylbenzene.  
 Methyl-tertiary-butyl ether is 1 lb. This product may contain up to 16% methyl-tertiary-butyl ether.  
 Naphthalene is 100 lbs. This product may contain up to 1% naphthalene.  
 n-Hexane is 1 lb. This product may contain up to 3% n-hexane.

## EXXON PLUS 89 CG

Toluene is 1,000 lbs. This product may contain up to 20% toluene.  
Xylene is 1,000 lbs. This product may contain up to 10% xylene.

**THRESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFR 355  
(SARA Sections 301-304)**

No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).

**TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313)**

This product may contain:

- Up to 4.9% benzene.
- Up to 1% cumene.
- Up to 1% cyclohexane.
- Up to 3% ethylbenzene.
- Up to 16% methyl-tertiary-butyl ether.
- Up to 1% naphthalene.
- Up to 3% n-hexane.
- Up to 20% toluene.
- Up to 10% xylene.

**HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Sections 311-312)**

<b>EPA HAZARD CLASSIFICATION CODE:</b>	Acute Hazard XXX	Chronic Hazard XXX	Fire Hazard XXX	Pressure Hazard	Reactive Hazard	Not Applicable
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**TOXIC SUBSTANCE CONTROL ACT**

This product may contain the following TSCA 12b reportable chemical substance(s):

- Aniline CAS # 62-53-3
- Cumene CAS # 98-82-8
- C-9 Aromatic
- Isopropanol (IPA) CAS # 67-63-0
- Methyl-tertiary-butyl ether (MTBE) CAS # 1634-04-4

## I. PROTECTION AND PRECAUTIONS

### VENTILATION

Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources.

### RESPIRATORY PROTECTION

Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

### PROTECTIVE GLOVES

Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

### EYE PROTECTION

Use splash goggles or face shield when eye contact may occur.

### OTHER PROTECTIVE EQUIPMENT

Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

### WORK PRACTICES / ENGINEERING CONTROLS

Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. Adequate ventilation required sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Tanks that have been in leaded gasoline service may have lead-containing residue. Special precautions needed in cleaning. See American Petroleum Institute publications 2013, 2015 and 2015A. No smoking, flame or other ignition sources.

To minimize fire or explosion risk from static charge accumulation and discharge, effectively ground product transfer system in accordance with the National Fire Protection Association standard for petroleum products.

For use as a motor fuel only. Do not use as a cleaning solvent, or thinner, or for other non-motor fuel uses. Do not siphon by mouth. Minute amounts of



## EXXON PLUS 89 CG

Liquid gasoline aspirated into the lungs may cause potentially fatal chemical pneumonitis.

In order to prevent fire or explosion hazards, use appropriate equipment.

Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70). This document is available from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.

**PERSONAL HYGIENE**

Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

**J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION****TRANSPORTATION INCIDENT INFORMATION**

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents.

**U.S. DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION**

Gasoline, 3, UN 1203, II

**OSHA REQUIRED LABEL INFORMATION**

In compliance with hazard and right-to-know requirements, where applicable OSHA Hazard Warnings may be found on the label, bill of lading or invoice accompanying this shipment.

**DANGER!**

**EXTREMELY FLAMMABLE**

**LONG-TERM, REPEATED EXPOSURE MAY CAUSE  
CANCER, BLOOD AND NERVOUS SYSTEM DAMAGE**

**CONTAINS: BENZENE**

Note: Product label may contain non-OSHA related information also.

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued. Exxon does not warrant or guarantee their accuracy or reliability, and Exxon shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container.

The Environmental Information included under Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Exxon Company, U.S.A. in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Exxon's interpretation of the available data.

EXXON PLUS 89 CG

FOR FUELS TECHNICAL ASSISTANCE CALL: 713-656-4955

FOR AN MSDS OR ASSISTANCE WITH AN MSDS, DIRECT INQUIRIES TO THE ADDRESS BELOW OR CALL:

MARKETING TECHNICAL SERVICES  
EXXON COMPANY, U.S.A.  
ROOM 2355  
P. O. BOX 2180  
HOUSTON, TX 77252-2180  
(713) 656-5949

## EXXON SUPREME 92 CG

**EXXON** COMPANY, U.S.A.  
A DIVISION OF EXXON CORPORATION

DATE ISSUED: 01/30/95  
SUPERSEDES DATE: 10/16/94

**MATERIAL SAFETY DATA SHEET**

EXXON COMPANY, U.S.A. P.O. BOX 2180 HOUSTON, TX 77252-2180

**A. IDENTIFICATION AND EMERGENCY INFORMATION**

THIS PRODUCT DOES NOT MEET THE REQUIREMENTS FOR REFORMULATED GASOLINE AND MAY NOT BE USED IN ANY REFORMULATED GASOLINE COVERED AREA.

PRODUCT NAME  
EXXON SUPREME 92 CG

PRODUCT CODE  
014857 - 15111

PRODUCT CATEGORY  
Conventional Motor Gasoline

PRODUCT APPEARANCE AND ODOR  
Clear colored liquid (typically orange)  
Gasoline hydrocarbon odor

MEDICAL EMERGENCY TELEPHONE NUMBER  
(713) 656-3424

**B. COMPONENTS AND HAZARD INFORMATION**

COMPONENTS	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION
Product is a variable complex mixture of components, principally hydrocarbons, blended to performance, rather than chemical specifications and typically contains the following:		
Naphtha (petroleum), light catalytic cracked	64741-55-5	
Naphtha (petroleum), heavy catalytic cracked	64741-54-4	
Naphtha (petroleum), full-range reformed	68919-37-9	
Naphtha (petroleum), full-range alkylate	64741-64-6	
Naphtha (petroleum), sweetened	64741-87-3	
Butane	106-97-8	
Proprietary additives	Proprietary	
It may include varying amounts of the following identifiable components:		
Benzene	71-43-2	0-4.9%
Cumene	98-82-8	0-1%
Cyclohexane	110-82-7	0-1%
Ethylbenzene	100-41-4	0-3%
Naphthalene	91-20-3	0-1%
n-Hexane	110-54-3	0-3%
Toluene	108-88-3	0-20%
Xylene	1330-20-7	0-10%

It may also include varying amounts of oxygenates such as the following:

Di-isopropyl ether	108-20-3	0-18%
Ethanol	64-17-5	0-10%
Ethyl-tertiary-butyl ether	637-92-3	0-18.5%
Methyl-tertiary-butyl ether	1634-04-4	0-16%
Tertiary-aryl-methyl-ether	994-05-8	0-18.5%

All components of this product are listed on the U.S. TSCA inventory.

EXXON SUPREME 92 CG

See Section E for Health and Hazard Information.

See Section H for additional Environmental information.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	Flammability	Reactivity	BASIS
1	3	0	Recommended by Exxon

EXPOSURE LIMIT FOR TOTAL PRODUCT  
100 ppm (300 mg/m3) for an 8-hour workday

BASIS  
Recommended by Exxon. OSHA Regulation 29 CFR 1910.1000 and the American Conference of Governmental Industrial Hygienists (ACGIH) 1st Threshold Limit Values (TLV) of 300 ppm (900 mg/m3) for gasoline for an 8-hour workday; 500 ppm (1500 mg/m3) STEL.

50 ppm (180 mg/m3) for n-hexane for an 8-hour workday

OSHA Regulation 29 CFR 1910.1000 and recommended by the American Conference of Governmental Industrial Hygienists (ACGIH)

50 ppm (187 mg/m3) for toluene (skin) for an 8-hour workday

Recommended by the American Conference of Governmental Industrial Hygienists (ACGIH)

50 ppm (180 mg/m3) for methyl-tertiary-butyl ether for a 15 minute STEL

Recommended by Exxon

The airborne benzene level shall not exceed 1 ppm for an 8-hour workday; 5 ppm STEL

OSHA Regulation 29 CFR 1910.1028

C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT

If splashed into the eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.

SKIN

In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry-clean clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

INHALATION

If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

INGESTION

If ingested, DO NOT induce vomiting; call a physician immediately.

D. FIRE AND EXPLOSION HAZARD INFORMATION

UNUSUAL FIRE AND EXPLOSION HAZARD

EXTREMELY FLAMMABLE VAPORS CAN TRAVEL AND EXPLODE

FLASH POINT (MINIMUM)

FLAMMABLE - Per DOT 49 CFR 173.120

AUTOIGNITION TEMPERATURE

## EXXON SUPREME 92 CG

National Fire Protection  
Association's Guide on  
Hazardous Materials

## NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION

Health Flammability Reactivity

1

3

0

BASIS

Recommended by the National Fire  
Protection Association

## HANDLING PRECAUTIONS

This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

Keep product away from ignition sources, such as heat, sparks, pilot lights, static electricity, and open flames.

## FLAMMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR)

Estimated values: Lower Flammable Limit 1.4% Upper Flammable Limit 7.6%

## EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES

Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.

The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Tenth Edition (1991):

Use dry chemical, foam or carbon dioxide to extinguish the fire. Water may be ineffective, but water should be used to keep fire-exposed containers cool. If a leak or spill has ignited, use water spray to disperse the vapors and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

NOTE: The inclusion of the phrase "water may be ineffective" is to indicate that although water can be used to cool and protect exposed material, water may not extinguish the fire unless used under favorable conditions by experienced fire fighters trained in fighting all types of flammable liquid fires.

## DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

## "EMPTY" CONTAINER WARNING

"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

## E. HEALTH AND HAZARD INFORMATION

## VARIABILITY AMONG INDIVIDUALS

Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

## EXXON SUPREME 92 CG

**EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)**

High vapor concentrations (greater than approximately 1000 ppm) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

Prolonged or repeated liquid contact with the skin will dry and defat the skin, leading to possible irritation and dermatitis.

**NATURE OF HAZARD AND TOXICITY INFORMATION**

**WARNING:** Concentrated, prolonged or deliberate inhalation of this product may cause brain and nervous system damage. Prolonged and repeated exposure of pregnant animals to high levels of toluene (levels greater than approximately 1500 ppm) has been reported to cause adverse fetal developmental effects.

Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.

Product contacting the eyes may cause eye irritation.

This product may contain up to a maximum of 4.9 weight percent benzene, CAS # 71-43-2, as a natural constituent of various gasoline blend components. Benzene can cause anemia and other blood diseases, including leukemia (cancer of the blood-forming system), after prolonged or repeated exposures at high concentrations (e.g., 50-500 ppm). It has also caused fetal defects in tests on laboratory animals.

Contains light hydrocarbon components. Lifetime studies by the American Petroleum Institute have shown that kidney damage and kidney cancer can occur in male rats after prolonged inhalation exposures at elevated concentrations of total gasoline. Kidneys of mice and female rats were unaffected. The U.S. EPA Risk Assessment Forum has concluded that the male rat kidney tumor results are not relevant for humans. Total gasoline exposure also produced liver tumors in female mice only. The implication of these data for humans has not been determined. Certain components, such as normal hexane, may also affect the nervous system at high concentrations (e.g., 1000-1500 ppm).

The presence of n-hexane (normal-hexane) in this product represents a distinct hazard of producing peripheral polyneuropathy, a progressive disorder of the nervous system, which with sufficient high exposure has the potential of becoming irreversible. This disorder has been observed in individuals exposed repeatedly to high vapor concentrations (1000-1500 ppm) of n-hexane over a period of several months. Exposure to this product should be controlled to keep the maximum level below 100 ppm, which will result in n-hexane exposure of 50 ppm or less. The OSHA 8-hour Time Weighted Average-Permissible Exposure Limit (TWA-PEL) is 50 ppm for n-hexane.

Simultaneous exposure to the vapors of n-hexane and methyl ethyl ketone (MEK) or to n-hexane and methyl isobutyl ketone (MIBK) increases the risk of adverse effects from n-hexane. Evidence in laboratory animals and humans indicates that in the presence of MEK or MIBK the neuropathy associated with n-hexane is produced in a shorter time or at lower exposure concentrations. This interaction has been reported when the exposure to n-hexane is below the American Conference of Governmental Industrial Hygienists (ACGIH) limit of 50 ppm and MEK is below the ACGIH limit of 200 ppm or when MIBK is below the ACGIH limit of 50 ppm.

Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.

Inhalation of components of exhaust from burning, such as carbon monoxide, may cause death at high concentrations. Exposure to the exhaust of this fuel should be minimized.

**PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE**

Benzene - Individuals with liver disease may be more susceptible to toxic effects.

## EXXON SUPREME 92 CG

Hexane - Individuals with neurological disease should avoid exposure.

Petroleum Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

## F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

## BOILING RANGE

Approximately 21°C (70°F) IBP  
to 225°C (437°F) FBP

## VAPOR PRESSURE

Varies seasonally from  
approximately 5 to 15 psi  
Reid Vapor Pressure

## SPECIFIC GRAVITY (15.6°C/15.6°C)

Approximately 0.74

## VAPOR DENSITY (AIR = 1)

Approximately 5

## MOLECULAR WEIGHT

Complex mixture, components vary  
from approximately 45 to 185

## PERCENT VOLATILE BY VOLUME

100

## pH

Essentially neutral

## EVAPORATION RATE @ 1 ATM. AND 25°C

(77°F) (n-BUTYL ACETATE = 1)  
Approximately 10-11

## POUR, CONGEALING OR MELTING POINT

Less than -38°C (-36°F)  
Pour Point by ASTM D 97

SOLUBILITY IN WATER @ 1 ATM.  
AND 25°C (77°F)

Negligible; less than 0.1%

## VISCOSITY

Approximately 0.5 cSt @ 25°C

## G. REACTIVITY

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc., as this presents a serious explosion hazard.

## H. ENVIRONMENTAL INFORMATION

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas.

Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, flammable vapors from absorbed material.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:

## REPORTABLE QUANTITY (RQ), EPA REGULATION 40 CFR 302 (CERCLA Section 102)

The RQ for:

Benzene is 10 lbs. This product may contain up to 4.9% benzene.  
Cumene is 5,000 lbs. This product may contain up to 1% cumene.  
Cyclohexane is 1,000 lbs. This product may contain up to 1% cyclohexane.  
Ethylbenzene is 1,000 lbs. This product may contain up to 3% ethylbenzene.  
Methyl-tertiary-butyl ether is 1 lb. This product may contain up to 16% methyl-tertiary-butyl ether.  
Naphthalene is 100 lbs. This product may contain up to 1% naphthalene.  
n-Hexane is 1 lb. This product may contain up to 3% n-hexane.

EXXON SUPREME 92 CG

Toluene is 1,000 lbs. This product may contain up to 20% toluene.  
 Xylene is 1,000 lbs. This product may contain up to 10% xylene.

**THRESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFR 355**  
 This product may contain up to 1% or 0.1% (carcinogen).  
 (SARA Sections 301-304)  
 No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).  
**TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313)**  
 This product may contain:

- Up to 4.9% benzene.
- Up to 1% cumene.
- Up to 1% cyclohexane.
- Up to 3% ethylbenzene.
- Up to 16% methyl-tertiary-butyl ether.
- Up to 1% naphthalene.
- Up to 3% n-hexane.
- Up to 20% toluene.
- Up to 10% xylene.

**HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Sections 311-312)**  
 EPA HAZARD CLASSIFICATION CODE: Acute Hazard XXX Chronic Hazard XXX Fire Hazard XXX Pressure Hazard Reactive Hazard Not Applicable

**TOXIC SUBSTANCE CONTROL ACT**  
 This product may contain the following TSCA 12b reportable chemical substance(s):  
 Aniline CAS # 62-53-3  
 Cumene CAS # 98-82-8  
 C-9 Aromatic  
 Isopropanol (IPA) CAS # 67-63-0  
 Methyl-tertiary-butyl ether (MTBE) CAS # 1634-04-4

**I. PROTECTION AND PRECAUTIONS**

**VENTILATION**  
 Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources.

**RESPIRATORY PROTECTION**  
 Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

**PROTECTIVE GLOVES**  
 Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

**FACE PROTECTION**  
 Use splash goggles or face shield when eye contact may occur.

**OTHER PROTECTIVE EQUIPMENT**  
 Use chemical-resistant apron or other impervious clothing, if needed, to avoid skin contact.

**WORK PRACTICES / ENGINEERING CONTROLS**  
 Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. Adequate ventilation required sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Tanks that have been in leaded gasoline service may have lead-containing residue. Special precautions needed in cleaning. See American Petroleum Institute publications 2013, 2015 and 2015A. No smoking, flame or other ignition sources.

minimize fire or explosion risk from static charge accumulation and charge, effectively ground product transfer system in accordance with the International Fire Protection Association standard for petroleum products.

use as a motor fuel only. Do not use as a cleaning solvent, or thinner, for other non-motor fuel uses. Do not siphon by mouth. Minute amounts of



## EXXON SUPREME 92 CG

Liquid gasoline aspirated into the lungs may cause potentially fatal chemical pneumonitis.

In order to prevent fire or explosion hazards, use appropriate equipment.

Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70). This document is available from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.

**PERSONAL HYGIENE**

Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

**J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION****TRANSPORTATION INCIDENT INFORMATION**

For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents.

**U.S. DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION**

Gasoline, 3. UN 1203. II

**OSHA REQUIRED LABEL INFORMATION**

In compliance with hazard and right-to-know requirements, where applicable OSHA Hazard Warnings may be found on the label, bill of lading or invoice accompanying this shipment.

**DANGER!**

**EXTREMELY FLAMMABLE**

**LONG-TERM, REPEATED EXPOSURE MAY CAUSE  
CANCER, BLOOD AND NERVOUS SYSTEM DAMAGE**

**CONTAINS: BENZENE**

Note: Product label may contain non-OSHA related information also.

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued. Exxon does not warrant or guarantee their accuracy or reliability, and Exxon shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container.

The Environmental Information included under Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Exxon Company, U.S.A. in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Exxon's interpretation of the available data.

FOR LUBRICANTS TECHNICAL ASSISTANCE CALL: 1-800-443-9966

EXXON SUPREME 92 CG

FOR FUELS TECHNICAL ASSISTANCE CALL: 713-656-4955

FOR AN MSDS OR ASSISTANCE WITH AN MSDS, DIRECT INQUIRIES TO THE ADDRESS  
BELOW OR CALL:

MARKETING TECHNICAL SERVICES  
EXXON COMPANY, U.S.A.  
ROOM 2355  
P. O. BOX 2180  
HOUSTON, TX 77252-2180  
(713) 656-5949