

*DELETE*

**CASE CLOSURE SUMMARY  
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM**

**I. AGENCY INFORMATION**

Date: 8/11/04

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 567-6765
Responsible Staff Person: Amir K. Gholami	Title: Hazardous Materials Specialist

**II. CASE INFORMATION**

Site Facility Name: Continental Volvo		
Site Facility Address: 4030 East 14 <sup>th</sup> Street, Oakland, California <i>(International Blvd listed in Environ)</i>		
RB Case No.: -----	Local Case No.: -----	LOP Case No.: RO002442
URF Filing Date: 1/7/2002	SWEEPS No.: ---	APN: 033-2144-049-04
Responsible Parties	Addresses	Phone Numbers
Mr. Achim Ehrhardt	774 Mays Blvd., #10 Incline Village, Nevada 89451	(775) 848-6441

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
1	550	<u>Waste Oil</u>	Removed	April 1987
2	1000	<u>Waste Oil</u>	Removed	04 May 2000
3	500	Fuel Oil	Removed	04 May 2000
Piping		Removed		04 May 2000

*leak discovery date: 4/20/1987*

**III. RELEASE AND SITE CHARACTERIZATION INFORMATION**

Cause and Type of Release: Holes detected at the base of heating tank		
Site characterization complete? Yes	Date Approved By Oversight Agency: -----	
Monitoring wells installed? Yes	Number: 3	Proper screened interval? Yes*
Highest GW Depth Below Ground Surface: 5.99	Lowest Depth: 8.98	Flow Direction: South
Most Sensitive Current Use: Potential drinking water source		

\*Screens in MW-1 and MW-3 submerged

Summary of Production Wells in Vicinity:  
 There are two irrigation wells within 2000 feet of this site:

- irrigation well 02S03W8G is about 1665 ft ENE of the site, 13 inches in diameter, 24 feet deep, it is upgradient of the site.
- irrigation well 02S03W8M is about 2000 feet ENE of the site, 7 inches in diameter, 41 feet deep, it is upgradient of the site.

These wells do not appear to be receptors for the site due to their distance and upgradient location to the site.

Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Oakland Estuary 3650 feet Southwest
Off-Site Beneficial Use Impacts (Addresses/Locations): None Identified	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health and Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	1 @ 550 Gallons – steel 1 @ 1000 Gallons – Fiber 1 @ 550 Gallons - Steel	Disposed at ECI Richmond	April 1987 05 May 2000 05 May 2000
Piping	Not reported	Assumed disposed with USTS	05 May 2000
Free Product	None reported	-----	-----
Soil	50 Cubic Yards	Used as excavation backfill	April 1987
Groundwater	None reported	-----	-----

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP (Please see Attachments 1-8 for additional information on contaminant locations and concentrations)				
Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	360	360	1,900	<50
TPH (Diesel)	4,100	4,100	68,000	<50
Oil & Grease	3,400	3,400	200,000	<1,000
Benzene	0.51	0.51	23	<0.5
Toluene	0.26	0.26	0.66	<0.5
Ethyl Benzene	0.49	0.49	1.7	<0.5
Xylene	2.4	2.4	<1.0	<0.6
Heavy Metals	59****	59****	2.3*****	2.3*****
PCB	0.250	0.250	<10	<10
MTBE (if not analyzed, explain below)	<0.2	<0.2	1.4*	1.4*
Other (8240/8270)	0.140**	0.140**	210***	27***

\* 1.4 ppb MTBE, <125 ppb EtOH, <1.0 ppb TAME, <1.0 ppb ETBE, <1.0 ppb DIPE, <1.0 ppb TBA, EDB, and EDC not analyzed.  
 \*\* TCE 0.14 ppm, PCE <.001 ppm, 1,2 -Dichlorobenzene .017 ppm, Cis-1,2-Dichloroethane <0.005 ppm  
 \*\*\* TCE 210 ppb, TCE 27 ppb, PCE 24 ppb, 1,2 -Dichlorobenzene <1.0, Cis-1,2-Dichloroethane <1.0 ppb, 1,2 Dichloroethane <1.0 ppb  
 \*\*\*\* Lead 59 ppm, Cadmium <0.5 ppm, Chromium 69 ppm, Nickel 123 ppm, Zinc 74 ppm  
 \*\*\*\*\* Lead 2.3 ppb, Cadmium 0.0077 ppb, Chromium 0.036 ppb, Lead 2.3 ppb, Nickel 0.17 ppb, Zinc 0.64 ppb

### Site History and Description of Corrective Actions:

The site is located in a commercial and residential area of southeast Oakland. Two buildings and a vacant lot utilized as a car lot occupy the site as shown in Figure 2. The property was operated as a car or truck maintenance shop since the 1950s. The vacant lot was used as a residence prior to being used as a car lot. The site is presently being used as an auto sales/repair facility. The chronology of events, which took place at this facility, is listed below:

1987- One steel, 550-gallon waste oil underground storage tank (UST) was removed from the eastern sidewalk of the site. A soil sample collected from beneath the UST detected oil and grease at 130 milligrams per kilogram (mg/kg). However, no aromatic and halogenated volatile organics, and extractable hydrocarbons were detected in the soil sample. Limited excavation of the impacted soil was conducted and soil was later disposed. A second sample collected from beneath the UST detected oil and grease at 80 mg/kg. A new double-walled UST for waste-oil was then installed in the same location.

26 January 1998 - a total of twelve soil probe borings (P1 through P12) were advanced at the site up to a depth of 30 feet bgs. Locations of the soil probe borings are illustrated on Figure 2.

Up to 53 ppm TPHg, 240 ppm TPHd, and 0.082 ppm Benzene was detected in soil at 10 feet bgs beneath the USTs. Grab ground water samples were collected from probe borings P12 using a Geoprobe water sampling assembly. Up to 6,800pp TPHd, 65 ppb TCE, and 24ppb PCE was detected in groundwater.

May 2000- Two USTs were removed from site under permit. Tank #1 were utilized for heating oil, while tank #2 was the upgraded/permitted UST that had been installed in the eastern sidewalk of the site and used to store waste oil (Figure 2). After being removed, the tanks were visually inspected with holes noted at the base of the ends of the heating oil UST. The waste oil UST appeared intact. Up to 360 ppm TPHg, 1,200 ppm TPHd, and .07ppm Benzene was detected in soil.

A perforated conductor casing had been previously installed within the fiberglass, double-walled, waste oil UST excavation, which was designated MW-UST. A grab water sample designated UST2-H2O that was collected from the former waste oil UST excavation well (well UST) was impacted. TPH-g was detected in the water samples as high as 180 micrograms per liter (ug/l), TPH-d 68,000 ug/l and TPH-mo 200,000 ug/l. Up to 23ppb benzene was also detected.

08 January 2001, two soil probe borings (P13 and P14) were advanced to a depth of 35 feet bsg. Up to 260ppm, 1,000ppm, 2,200ppm, 0.51ppm, 0.23ppm, 0.49ppm, and 1.3ppm of TPHg, TPHd, TPH-Oil, Benzene, Toluene, Ethylbenzene, and Xylene respectively was detected in soil at 10 feet bgs. TCE concentrations found both in soil and groundwater were below ESL levels.

Ground water was not present in probe boring P14 at 35 feet bsg. A grab ground water samples was collected from probe boring P13. Up to 1,100ppb and 430ppb of TPHd and TPH-Oil respectively was detected in groundwater. A grab ground water sample was collected from the sampling well in the former waste oil UST excavation (MW-UST). Up to 61ppb, 8,700ppb, 54,000, and 3.0ppb of TPH-g, TPHd, TPH-Oil, and Benzene respectively was detected in groundwater. Additionally 1.4 ppb MTBE and 65 ppb TCE were detected in the grab water sample at P13.

June and July 2002, two soil borings (MW-1 and MW-3) were advanced to a depth of 20 feet below surface grade (bsg), which were completed as groundwater monitoring wells screened from 10 to 20 feet bgs. Soil boring MW-1 was installed down-gradient of the former waste oil UST excavation; boring MW-3 was installed down-gradient of the former heating oil UST area. Soil borings collected revealed up to 2.7ppm and 19ppm of TPH-d and TPH-oil. No other contaminants were detected in soil samples. Up to 110ppb, 3,100ppb, 5.4ppb, and 1.7ppb of TPH-g, TPH-d, Benzene, and Ethylbenzene respectively was detected in groundwater. Additionally up to 210ppb TCE and 110ppb Cis-1,2-Dichloroethane were detected in groundwater.

02 April 2003: Ground water monitoring activities were performed. Up to 450ppb, 1000ppb, 10ppb, and 1.7ppb of TPH-g, TPH-d, TPH-Oil, Benzene, and Ethylbenzene respectively was detected in groundwater. Additionally up to 190ppb TCE, 6.6ppb 1,2-Dichlorobenzene, 58ppb Cis-1,2-Dichloroethane, and 7.6ppm 1,2 Dichloroethane were detected in groundwater.

19 June 2003, a soil boring (MW-2) was advanced to a depth of 20 feet below surface grade surface and was screened between 10 to 20 feet bgs and down-gradient of monitoring well MW-1. Three soil sample were collected for analysis. However, no contaminants were detected.

Groundwater samples detected up to 4.1ppb and 2.1ppb of TCE and Cis-1,2-Dichloroethane. All BTEX were non-detect.

30 June 2003, two soil probe borings (GB1 and GB2) were advanced to a depth of 21 and 24 feet bsg respectively. Discrete soil samples were collected throughout the borings at 4-foot intervals beginning at a depth of 4 or 9 feet bsg. Grab ground water sample was not readily available for collection from the borings. Soil borings collected revealed up to 5.1ppm, 1,400ppm, and 3,400ppm of TPH-g, TPH-d, and TPH-oil respectively around 10 feet bgs. No other contaminants were detected in soil samples. Grab ground water sample was not readily available for collection from the borings.

July 2003: Ground water monitoring activities were performed. Up to 1900ppb and 10ppb of TPH-g and Benzene respectively was detected in groundwater. Additionally up to 170ppb TCE, 52ppb Cis-1,2-Dichloroethane, and 4.5ppm 1,2 Dichloroethane were detected in groundwater.

December 2003: Ground water monitoring activities were performed. Up to <50ppb and <1000ppb of TPH-g and TPH-Oil respectively was detected in groundwater. Additionally up to 27ppb TCE was detected in groundwater.

**IV. CLOSURE**

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes No		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes No		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based on condition.		
Site Management Requirements: None		
Should corrective action be reviewed if land use changes? No.		
Monitoring Wells Decommissioned: Yes	Number Decommissioned: 4	Number Retained: 0
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

**V. ADDITIONAL COMMENTS, DATA, ETC.**

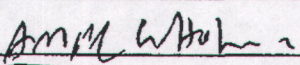
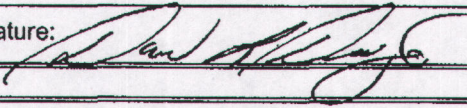
Considerations and/or Variances:

Residual soil and groundwater pollution left in place includes up to 27 ppb TCE in groundwater and 0.140 ppm TCE in soil. However, soil and groundwater contaminations levels do not exceed ESL level for soil and groundwater for residential and or commercial/industrial sites. PCB detected once in soil sample at 0.25 ppm appears limited in extent and does not exceed the ESL level of 6.3 ppm for soil at residential and or commercial/industrial sites.

Conclusion:

Alameda County Environmental Health staff do not believe a significant threat to groundwater exists at this site. Residual petroleum hydrocarbons appear to be confined to the immediate vicinity of the former underground storage tank location. It is anticipated that bioremediation and attenuation process over time will be effective in reducing residual pollution remaining at this site. ACEH staff recommend closure for this site.

**VI. LOCAL AGENCY REPRESENTATIVE DATA**

Prepared by: Amir K. Gholami, REHS	Title: Hazardous Materials Specialist
Signature: 	Date: 8/11/04
Approved by: Donna L. Drögoš, P.E.	Title: Supervising Hazardous Materials Specialist
Signature: 	Date: 08/11/04

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

**VII. REGIONAL BOARD NOTIFICATION**

Regional Board Staff Name: Betty Graham	Title: Associate Water Resources Control Engineer
RB Response: Concur, based solely upon information contained in this case closure summary.	Date Submitted to RB:
Signature: <i>John D. Wolfenden</i> FOR	Date: <i>8/18/04</i>

**Attachments:**

1. Location Map
2. Site Plan
3. Soil Analytical Data (5 pp)
4. Groundwater Analytical Data (2 pp)
5. Groundwater Elevation Data
6. Groundwater Flow & Concentration Data Maps (7 pp)
7. Geological Cross Sections
8. Boring Logs (19 pp)

This document and the related CASE CLOSURE LETTER shall be retained by the lead agency as part of the official site file.

Facility / Site Address

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CONTINENTAL VOLVO (T0600100410) - [MAP THIS SITE](#)

[OPEN - SITE ASSESSMENT](#)

4030 14TH ST E  
OAKLAND , CA 94601  
ALAMEDA COUNTY

[ACTIVITIES REPORT](#)

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**CLEANUP OVERSIGHT AGENCIES**

ALAMEDA COUNTY LOP (*LEAD*) - CASE #: 01-0452  
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-0452

**FACILITY / SITE ADDRESS**

THIS IS A "TEST PROJECT" (WILL BE EXCLUDED FROM PUBLIC SEARCH / REPORTS AND REGULATOR REPORTS)

**PROJECT NAME**

CONTINENTAL VOLVO

THIS PROJECT IS A RESIDENCE

**STREET #**

4030

**STREET NAME / LOCATION**

14TH ST E

**BUILDING #**

**CITY**

OAKLAND

**STATE**

CA

**ZIP**

94601

**COUNTY**

Alameda

**CROSS STREET NAME**

**FIELDS CALCULATED BASED ON LATITUDE / LONGITUDE**

**GW BASIN NAME**

Santa Clara Valley - East Bay Plain (2-9.04)

**WATERSHED NAME**

South Bay - East Bay Cities (20420)

**COUNTY**

Alameda

[SPELL CHECK](#)

LOGGED IN AS PKHATRI

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Activities Report

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**ACTIVITIES REPORT**    **ACTIVITY TYPE FILTER:** Show All Activities

**\* INDICATES A REVISED DUE DATE**

[SCHEDULE NEW REGULATORY ACTION](#)

[SCHEDULE NEW COMPLIANCE RESPONSE](#) / [SCHEDULE RECURRING](#)

<a href="#">ACTION TYPE</a>	<a href="#">ACTION</a>	<a href="#">ACTION DATE</a>	<a href="#">RECEIVED / ISSUE DATE</a>	<a href="#">ACTION DESCRIPTION</a>
LEAK ACTION	<a href="#">Leak Discovery</a>	4/20/1987		
LEAK ACTION	<a href="#">Leak Reported</a>	4/20/1987		
LEAK ACTION	<a href="#">Leak Stopped</a>	4/20/1987		

LOGGED IN AS PKHATRI

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**CLEANUP OVERSIGHT AGENCIES**  
ALAMEDA COUNTY LOP (**LEAD**) - CASE #: 01-0452  
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-0452

PROJECT INFORMATION

PROJECT STATUS HISTORY

**SITE TYPE**

LUST Cleanup Site

**STATUS**

Open - Site Assessment

**STATUS DATE**

4/2/1992

**FUNDING FOR CLEANUP**

**FILE LOCATION**

**RP IDENTIFICATION**

**RP ID DATE**

**HUMAN HEALTH EXPOSURE - INFO**

**CONTROLLED?**  **DATE**

**GROUNDWATER MIGRATION - INFO**

**CONTROLLED?**  **DATE**

**FINAL REMEDY FOR CLEANUP**

**SELECTED?**  **DATE**  **IMPLEMENTED?**  **DATE**

**STAFF NOTES (INTERNAL)**

**SITE HISTORY (PUBLIC)**

CLEANUP OVERSIGHT AGENCIES

CASE NUMBER	CLEANUP OVERSIGHT AGENCY	LEAD	LEAD DATE	END DATE
<input type="text" value="01-0452"/>	ALAMEDA COUNTY LOP	<input type="checkbox"/>	<input type="text" value="4/20/1987"/>	<input type="text"/>
<input type="text" value="01-0452"/>	SAN FRANCISCO BAY RWQCB (REGION 2)	<input type="checkbox"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>		<input type="checkbox"/>	<input type="text"/>	<input type="text"/>

LATITUDE/LONGITUDE INFORMATION MUST BE IN THE GEOGRAPHIC NAD83 COORDINATE SYSTEM:

**LATITUDE**  **LONGITUDE**  **BUFFER (IN FEET)**

[CLICK HERE TO RE-POSITION THIS PROJECT ON THE MAP](#)

[SPELL CHECK](#)



Project Summary

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ALAMEDA COUNTY LOP (*LEAD*) - CASE #: 01-0452  
SAN FRANCISCO BAY RWQCB (REGION 2) - CASE #: 01-0452

[PROJECT INFO](#)

<b>SITE TYPE</b>	<b>STATUS</b>	<b>STATUS DATE</b>
LUST CLEANUP SITE	OPEN - SITE ASSESSMENT	4/2/1992

[CONTACTS](#)

THERE ARE CURRENTLY NO CONTACTS ASSOCIATED WITH THIS PROJECT

LOGGED IN AS PKHATRI

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Risk Information

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**RISK INFORMATION**

<b><a href="#">RELEASE TYPE</a></b>	<b><a href="#">CONTAMINANT(S) OF CONCERN</a></b>	<b><a href="#">INTERNAL PRIORITY</a></b> <i>(OPTIONAL)</i>
	WASTE OIL / MOTOR / HYDRAULIC / LUBRICATING	

<b><a href="#">REDEVELOPMENT PLANNED - INFO</a></b>	<b><a href="#">CURRENT LAND USE</a></b>
YES NO	NONE SPECIFIED

**[BENEFICIAL USE](#)**  
NONE SPECIFIED

**[MEDIA OF CONCERN](#)**  
NONE SPECIFIED

**[VULNERABILITY BASIS](#)**

**ADDITIONAL RISK DESCRIPTION (IF NEEDED)**

**[# IMPACTED DRINKING WATER WELLS](#)**

**[DRINKING WATER SUPPLY SHUT DOWN](#)**

YES NO

THERE ARE 0 DHS SUPPLY WELLS WITHIN 1/2 MILE OF THIS SITE  
(INCLUDING SITE BUFFER)

**[WELL IMPACT DESCRIPTION](#)**

**[REPORT DATE](#)**

4/20/1987

**[RELEASE DESCRIPTION](#)**

**[STOP DATE](#)**

4/20/1987

**[STOP METHOD](#)**

**[STOP DESCRIPTION](#)**

**[DISCHARGE DATE](#)**

**[DISCHARGE CAUSE](#)**  
STRUCTURAL FAILURE

**[DISCHARGE SOURCE](#)**  
TANK

**[DISCHARGE DESCRIPTION](#)**

**[DISCOVERED DATE](#)**

4/20/1987

**[HOW DISCOVERED](#)**  
TANK CLOSURE

**[HOW DISCOVERED DESCRIPTION](#)**

**[QUANTITY \(GALLONS\)](#)**

**[HAZMAT INCIDENT FILED WITH OES?](#)**

**[LEAK CONFIRMED AS A VAPOR RELEASE?](#)**

[SPELL CHECK](#)