ALAMEDA COUNTY

HEALTH CARE SERVICES

AGENCY



May 2, 1996



Alameda County UC400U Environmental Health Services 1131 Harbor Bay Pkwy., #250 Alameda CA 94502-6577 (510)567-6700 FAX(510)337-9335

REMEDIAL ACTION COMPLETION CERTIFICATION

Ms. Jackie Ross Linde Gases of California 2678 Bishop Dr. Suite 200 San Ramon, California 94583

Mr.Joe Lopez Praxair / Altair Bayox 1785 Old Oakland, Road San Jose, California 95131

Praxair / Altair Bayox RE: 1171 Ocean Avenue, Oakland, California 94608 STID # 307

Dear Ms. Ross and Mr. Lopez:

This letter confirms the completion of site investigation and remedial action for the 5,000 gallon diesel underground storage tank removed on March 22, 1989 at the above described location. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the diesel underground storage tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, California Code of Regulations, Division 3, Chapter 16, Section 2721 (e). If a change in the present land use is proposed, the property owner must promptly notify this agency.

Please contact Susan L. Hugo at (510) 567-6780 if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung,

Enclosure

Gordon Coleman, Acting Chief, Environmental Protection - files c: Kevin Graves, RWQCB Mike Harper, SWRCB (with enclosure)

HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway

Alameda, CA 94502-6577 (510) 567-6777

April 1, 1996 STID # 307

Mr. Joe Lopez Praxair / Altair Bayox 1785 Old Oakland Road San Jose, California 95131

RE: Case Closure - Praxair / Altair Bayox

1171 Ocean Avenue, Oakland, California 94608

Dear Mr. Lopez:

The Alameda County Department of Environmental Health, Environmental Protection Division has recently received concurrence from the Regional Water Quality Control Board regarding this office determination that no further action is required concerning the removal of one 5000 gallon diesel underground storage tank at the above referenced site.

Please be advised that the groundwater monitoring well (MW-1) at the site must be properly decommissioned before our agency will issue the Remedial Action Completion Certification (closure letter) for the subject site. A report must be submitted documenting the abandonment of the monitoring well.

Additionally, you will need to notify this office 72 hours in advance of the well abandonment field activities.

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

Sincerely,

Susan L. Hugo

Senior Hazardous Materials Specialist

c: Jun Makishima, Interim Director, Environmental Health Gordon Coleman, Acting Chief, Environmental Protection / files Kevin Graves, San Francisco Bay RWQCB

LOP - RECORD CHANGE REQUEST FORM

printed: 04/29/96

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

Insp: SH

SUBSTANCE: 12034 AGENCY # : 10000 SOURCE OF FUNDS: F

LOC: -0-: 307

DATE REPORTED : 02/01/88 DATE CONFIRMED: 02/01/88 MULTIPLE RPs : N SITE NAME: Bayox ADDRESS : 1171 -0 Ocean Ave

94608 CITY/ZIP : Oakland

SITE STATUS

CASE TYPE: S CONTRACT STATUS: 4 PRIOR CODE: 284 EMERGENCY RESP: -0-

DATE COMPLETED: 10/13/92 RP SEARCH: S PRELIMINARY ASMNT: C DATE UNDERWAY: 09/06/89 DATE COMPLETED: 12/26/89 REM INVESTIGATION: C DATE UNDERWAY: 12/26/89 DATE COMPLETED: 01/24/95 POST REMEDIAL ACTION: C DATE UNDERWAY: 03/22/89 DATE COMPLETED: 01/24/95 DATE COMPLETED: 0-0-

ENFORCEMENT ACTION TYPE: 1 DATE ENFORCEMENT ACTION TAKEN: 10/13/92 LUFT FIELD MANUAL CONSID: 3HSCAWG

DATE CASE CLOSED: 05/02/96 CASE CLOSED: Y

DATE EXCAVATION STARTED: 03/22/89 REMEDIAL ACTIONS TAKEN: ED-

RESPONSIBLE PARTY INFORMATION

RP#1-CONTACT NAME: Ms. Jackie Ross

COMPANY NAME: Linde Gases of California ADDRESS: 2678 Bishop Dr. Suite 200 CITY/STATE: San Ramon, California 94583

	<u> </u>	INSPECTOR VERIFI	CATION:	1
NAME JULI	2/fu	signature		DATE 5/2/96
		DATA ENTRY IN		
Name/Address	Changes Onl	У	Case	Progress Changes
ANNPGMS	LOP	DATE	LOP	DATE

CALIFORNIA REGIONAL WATER

MAR 0 4 1996

CHALLIY CLAVIKOL BOARD

CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

AGENCY INFORMATION I.

Date: February 15, 1996

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Parkway

City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700 Responsible staff person: Susan Hugo Title: Sr. Hazardous Materials Spec.

CASE INFORMATION II.

Site facility name: Praxair /Altair Bayox OAKLAND

Site facility address: 1171 Ocean Avenue, Emeryville, CA 94608 URF filing date: 4/25/89

Local Case No./LOP Case No.: 307

SWEEPS No. N/A

Responsible Parties:

<u>Addresses:</u>

Phone Numbers:

Praxair / Altair Bayox 2420 Camino Ramon Attn: Mr. Joe Lopez San Ramon, CA 94583 Attn: Mr. Joe Lopez

(408) 437-1010

ext. 2004

Tank Size in

Contents:

Closed in-place or removed?:

Date:

No: <u>gal.:</u>

1

5000 gallons Diesel

Removed

3/22/89

RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown

Site characterization complete? Yes

Date approved by oversight agency: 6/26/89

Number: One (1) Monitoring Wells installed? YES

Proper screened interval?

Highest GW depth below ground surface: 3.52 feet Lowest depth: 7.35 feet Flow direction: General groundwater flow in the area is westerly towards the SF Bay

Most sensitive current use: Light industrial; mixture of light industrial and residential use nearby

Are drinking water wells affected? NO Aguifer name: NA Is surface water affected? NO Nearest affected SW name: NA Off-site beneficial use impacts (addresses/locations): NA Report(s) on file? YES Where is report(s) filed? Alameda County 1131 Harbor Bay Parkway, Alameda, CA 94502-6577

YES

Treatment and Disposal of Affected Material:

Material	Amount (include units)	Action (Treatment of Disposal w/destination)	<u>Date</u>
Tank Soil	1 -5000 gallons Overburden soil was used as back	appeared to be clean and	3/22/89

Leaking Underground Fuel Storage Tank Program

III. RELEASE AND SITE CHARACTERIZATION INFORMATION (Continued)

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

Contaminant Soil (ppm) Water (ppb)

Contaminant	SOLI	(ppm)	water	(ppp)
	Before	<u> </u>	** <u>Before</u>	<u> </u>
TPH (Gas)	-	-	Mag	220
TPH (Diesel)	ND	* 1.6	800	ND
TPH (as waste oil)	ND	ND	ND	-
Benzene	ND	ND	ND	ND
Toluene	\mathbf{N} D	ND	ND	ND
Xylene	ND	ND	ND	ND
Ethylbenzene	ND	ND	ND	ND
Oil & Grease	ND	ND	490	-
by EPA # 9070/9071				

- * Soil sample collected from boring LB-3 at 8 feet bgs (soil /water interface).
- ** Grab water sample collected from the excavation following the removal of the tank.

Comments (Depth of Remediation, etc.):

In March 1989, a 5,000 gallon diesel UST was removed at the above referenced site. The former tank was covered with tar paper and no apparent leakage was noted. Two soil samples were collected at the soil/water interface, one from each end of the tank found no detectable concentration of TPH diesel, BTEX, and TPH as waste oil. However, the grab water sample collected from the tank pit found TPH diesel (800 ppb) and TOG (490 ppb).

A limited site assessment was conducted on September 6, 1989 to determine the extent of the contamination related to the former diesel UST. Six exploratory soil borings were drilled (11 to 15 feet bgs) in the immediate area of the former tank (see Figure 6). Soil samples collected from the borings were non detect for TPH diesel and BTEX with the exception of one soil sample from boring LB-3 exhibiting very low levels of TPH diesel (1.6 ppm). Five grab water samples from borings LB-1, LB2, LB-3, LB-4 and LB-6 showed no detectable concentration of TPH diesel and BTEX.

On December 26, 1989, one groundwater monitoring well was installed within 8 feet of the tank area in the assumed downgradient direction. Groundwater was encountered at 14 feet bgs and the boring terminated at 29.5 feet bgs. During the drilling, stiff clay was present to a depth of 7 feet, followed by clayey gravel up to 16 feet bgs and sandy gravel up to the bottom of the boring. Groundwater stabilized at 9 feet bgs. Soil samples collected during the well installation and the groundwater sample collected following the well development found no detectable level of TPH gasoline, TPH diesel and BTEX. The well was sampled consistently every quarter in 1990 (1/90, 3/90/, 7/90 and 11/90). The first three sampling events showed non detect for TPH gasoline, TPH diesel, and BTEX. However, the fourth quarter found TPH gasoline at 170 ppb and benzene at 1.8 ppb.

Leaking Underground Fuel Storage Tank Program

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Undetermined

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Undetermined

Does corrective action protect public health for current land use? Site management requirements: NA

Should corrective action be reviewed if land use changes? YES

Monitoring wells Decommissioned: No, will decommission upon case closure

Number Decommissioned: NA Number Retained: NA

List enforcement actions taken: NA

List enforcement actions rescinded: NA

LOCAL AGENCY REPRESENTATIVE DATA v.

Title: Sr. Hazardous Materials Specialist Name: Susan L. Hugo

Signature: Juna &. Hugo Date: 2/26/96

Reviewed by

Title: Hazardous Materials Specialist Name: Dale Klettke

Signature: Lill Loll Date:

Title: Sup. Hazardous Materials Specialist Name: Thomas Peacock

2-27-96 Date: Signature:

VI. RWOCB NOTIFICATION

RB Response: Alfrored Date Submitted to RB: 2/28/96

RWQCB Staff Name / Kevin Graves Title: Water Resources Control Engineer

Date: 3/26,

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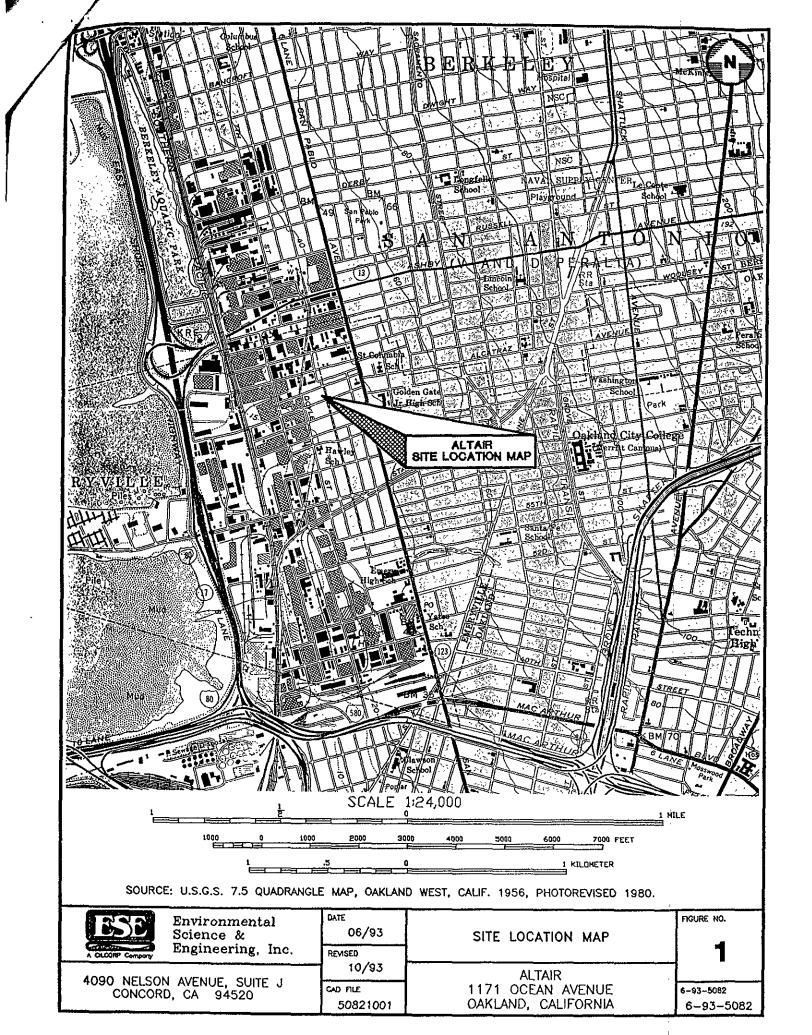
Leaking Underground Fuel Storage Tank Program

VII. ADDITIONAL COMMENTS, DATA, ETC.

Two additional monitoring events were performed (12/7/94 and 1/24/95) at the subject site. TPH gasoline (170 to 220 ppb), toluene (nd to 1.4 ppb), xylene (nd to 3.6 ppb) and ethyl benzene (nd to 0.6 ppb) were found during these sampling events but TPH diesel and benzene remained non detect.

Case closure or no further action regarding the former diesel tank is recommended for the above referenced site due to the following reasons:

- 1) Soil contamination was not encountered at the site (1.6 ppm TPH diesel was the only concentration found in the soil).
- 2) TPH diesel was not detected in the groundwater during the six sampling events.
- 3) Benzene was detected one time at very low concentration (1.8 ppb) during the 11/90 sampling event.
- 4) The level of TPH gasoline (nd to 220 ppb) found in the groundwater was low and may be coming from off-site and not related to the former diesel tank removed from the site.
- 5) The site is categorized as low risk and the residual levels of TPH gasoline in groundwater do not appear to be a threat to public health and the environment.



PRAXAIR/ALTAIR FACILITY 1171 Ocean Avenue Oakland, California

TABLE 3

ANALYTICAL GROUND WATER RESULTS

DATE	TPH-G mg/L	TPH-D mg/L	Benzene	mg/11	otal Xylenes	Ethylbenzene
Drw (ft)			ppb	ppon	ppom	profile.
7,04 01/08/90	ND	ND	ND	ŇD	₽ ŇD	$p_{\mathcal{S}^{\mathcal{U}}}$
5.0 03/09/90	ND	ND	ND	ND	ND	ND
·			***	ND	ND	ND
07/12/90 (17	ND	ND	ND	ND.		****
7.35 11/16/90	0.17	ND	(1.8)	ND	ND	ND
4.70 12/07/94		ND	ND	0.0014	0.0036	0.0006
4,10 12/01/94	0.17	2.2			ND	ND
3.52 01/24/95	0.22	ND	ND	ND	ND	

Notes:

TPH-G = Total Petroleum Hydrocarbons as Gasoline

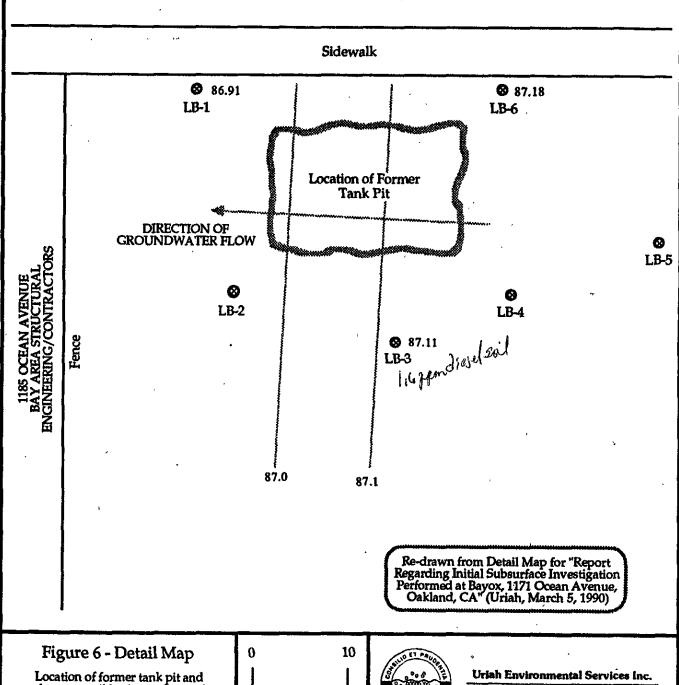
TPH-D = Total Petroleum Hydrocarbons as Diesel

mg/L = Milligrams per liter
ND = Non-detectable

By: I. Joseph Lopez Praxair, Inc.



OCEAN AVENUE



Location of former tank pit and exploratory soil borings advanced at 1171 Ocean Avenue, Oakland, CA (9/6/89)





2401 East Orangeburg Avenue #675-218, Modesto, CA 95355

TABLE I

Soil and Groundwater Sample Results
Exploratory Soil Borings
Limited Site Assessment, September 6, 1989

. Sample#	TPH-D	Benzene	Toluene	Ethylbenzene	Xylenes	
Soil Samples (ppm)					<u> </u>	
909-0341/LB1-S	ND	ND	ND	ND	ND	
909-0342/LB2-S	ND	ND	ND	ND	ND	
909-0334/LB3-S	1.6	ND	ND	ND	ND	
909-0344/LB4-S	ND	ND	ND	ND	ND	
909-0345/LB5-S	ND	ND	ND	ND	ND	
909-0346/LB6-S	ND	ND	ND	ND	ND	
Method Detection Limit (ppm)	1	0.05	0.1	0.1	0.1	
Grab Groundwater Samples (ppb)					,	
909-0347A/LB1-W	ND	ND	ND	ND	ND	
909-0348A/LB2-W	· ND	ND	ND	ND	ND	
909-0349A/LB3-W	ND	ND	· ND	ND	ND	
909-0350A/LB4-W	ND	ND	ND	ND	ND	
909-0351A/LB6-W	ND	ND	ND	ND	ND	
Method Detection Limit (ppb)	50	0.3	0.3	0.3	0.3	
TPH-G = Total Petroleum Hydrocarbons as Gasoline TPH-D = Total Petroleum Hydrocarbons as Diesel ppm = Parts per million ppb = Parts per billion ND = Non-detectable						

		Expl	orato	ry Boring	Log
Project	Project No.			& Casing Diameter	Logged By Walter Floyd- Geologist
Project Linde	Project Name Linde- Oakland			Elevation	Date Drilled 9/6/89
Boring	No. LB-	1	Hollow-	stem Flight Auger . 8"	Depth to Groundwater
Penetra- tion blows/ft	level	Depth (ft) Samples	Litho— graphy USCS	. Do	escription
7, 12		10	CL	no odors, soft	CLAY (CL), no odors,

	ad tella fi silippena japaninga	Expl	orato	ry Boring	Log
Project	Project No.			& Casing Diameter	Logged By Walter Floyd- Geologist .
Project Linde	Project Name Linde- Oakland			Elevation	Date Drilled 9/6/89
Boring 1 LB-			Hollow-	stem Flight Auger . 8"	Depth to Groundwater 8.5'
Penetra- tion blows/ft	level	Depth (ft) Samples	Litho- graphy USCS	Do	escription
6, 10	<u>*</u>	10	GC L	odor, soft. Gravel lense of thick, no odor	CLAY (CL), no odors.

	Expl	orațo	ry Boring	Log
Project No.		Boring'	& Casing Diameter	Logged By Walter Floyd- Geologist
Project Name Linde- Oak	land	Casing	Elevation	Date Drilled 9/6/89
Boring No. LB-3		Hollow-	-stem Flight Auger . 8"	Depth to Groundwater 9.5'
Penetra-G. W. tion level blows/ft	Depth (ft) Samples	Litho- graphy USCS	Do	escription
8, 14	10	CL	Dark brown to bl no odor.	ack CLAY (CL), soft, SILTY CLAY (CL), stiff, ed at 12.5'.

	Expl	orațo	ry Boring	Log
Project No.		Boring	& Casing Diameter	Logged By Walter Floyd- Geologist
Project Name Linde- Oal	cland	Casing	Elevation .	Date Drilled 9/6/89
Boring No. LB-4		Hollow-	stem Flight Auger . 8"	Depth to Groundwater 9.5'
Penetra-G. W. tion level blows/ft	Samples	Litho- graphy USCS	. De	escription
7, 14	10	CL	Dark brown CLAY odor. Yellowish-brown no odor. Boring terminat	SILTY CLAY (CL), stiff,

	Expl	orato	ry Boring	Log
Project No.			& Casing Diameter	Logged By Walter Floyd- Geologist.
Project Name Linde- Oa	k1and		Elevation	Date Drilled 9/6/89
Boring No. LB-5			stem Flight Auger . 8"	Depth to Groundwater
Penetra-G. W. tion level blows/ft		Litho- graphy USCS	. Do	escription
9, 15	10	CT CT	no odor.	SILTY CLAY (CL), stiff, sistance and boring 15'. No groundwater

Explo	rator	y Boring	Log
Project No.	Boring &	. Casing Diameter	logged By Walter Floyd- Geologist .
Project Name Linde- Oakland	Casing I	Elevation	Date Drilled 9/6/89
Boring No. LB-6	Hollow-	stem Flight Auger . 8"	Depth to Groundwater
Penetra- G. W. Depth (ft) I tion level Samples to	itho- graphy JSCS	. De	escription
	CL		SILTY CLAY (CL), stiff,

DATE	DRILLE	12,	MONITOR HOLE NO. /26/89 S Auger SAMPLING METHOD C	ART 1	30	FINE	Н	130 E.W. Dri	111
HEPTH HEOW SUMACE	#1 Ov	MPLES NLECTED IR SAMME	SOIL DESCRIPTION 11 HTUNE, COLOIC MOSTUM "CONSISTENCY, GRAIN-SIG., 61C.	UNIFED SQL CLASSIP.	GAAPINE I DG	Pone Corrected Courtestion	ari	will constant ortage Christy · Box	• • • •
5		OW-5	CLAY- yellowish-brown, stiff, no odors, pebbles present (less than 5 pct).			4,7,10	11	2" Blank	Gr
, 	Ī	Z _{ow-9} ,	Change to CLAYEY-GRAVEL @ 7', orange-brown, angular clasts to 2", no odors.			7,9,16	16		Ben
10 		OW- 11.5	Clay matrix is saturated.	GC		5,10,11	15		
		W- 13.5' OW-15	Change at 16' to SANDY- GRAVEL. Contains approx.			4,6,9	10	Slotte PVC	đ
20 		OW-20	12 pct clay. Dark orange- brown, medium dense.	GW	2000	3,8	11		Mor S
25 25		OW-25			0,0	7,7	. 14		
		0₩- 29.5	Boring terminated at 29.5			11,35	46	Surve Cap	- 0 -
					i				
			,			٨			

WELL DEIAILS

PROJECT NUMBER:	BORING/WEIL NO. MW-1 CASING ELEVATION: SURFACE ELEVATION:
G-5 Vault Box B B C F B B B G G G G G G G G G G	A. Total Depth:

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