



August 25, 1987

18106,002.04

Blue Print Service Company  
c/o Garcia/Wagner and Associates  
555 Sutter Street  
San Francisco, California 94102

Attention: Mr. Felix Rodriguez

Gentlemen:

Professional Services during Tank Removal  
City Blue Production Facility  
17th and Jefferson Streets  
Oakland, California

This letter presents the results of our investigation and observations during the removal of three underground gasoline tanks at the City Blue Production facility site at 1700 Jefferson Street, Oakland, California. Our work was performed in accordance with the guidelines for addressing fuel leaks by the California Regional Water Quality Control Board (RWQCB), San Francisco Bay Region.

#### BACKGROUND

The former underground fuel storage system comprised a cluster of three gasoline tanks of steel construction. The two outer tanks (east and west) had a 1000-gallon capacity and the center tank had a 550-gallon capacity. The age of the tanks is unknown. A sketch of the excavation to remove the underground storage tanks is presented on the Site Plan, Plate 1.

We previously performed a soil investigation and preliminary hazardous waste assessment for the project and presented the results in reports dated May 4 and June 3, 1987, respectively. The results of our preliminary hazardous waste assessment indicated that some gasoline had leaked. From conversations with employees of the Blue Print Service Company, we understand that the tanks were pressure-tested four to five years before our investigation, but no documentation of tank testing or test results is available.

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Harding Lawson Associates

#### FIELD INVESTIGATION AND OBSERVATIONS

On June 15, 1987, we were notified that tank removal activities would begin the following afternoon. When HLA's field engineer arrived on site, the three underground storage tanks and all product lines and dispensers had been removed from the excavation. The tanks were removed by Thomas Eychner Demolition Company of Oakland, California. Tank Removal Permit No. 8996, dated June 3, 1987, was obtained by the contractor from the City of Oakland. To our knowledge, no inspector from the Oakland Fire Department or the Alameda County Health Department was on site during tank removal.

Following removal of the three tanks, our field engineer observed the excavation sidewalls and bottom, collected samples of native soils underlying the excavations, and submitted the samples for laboratory analysis. The excavations for removal of the product lines and dispensers were backfilled and could not be sampled. The observed soils consisted of brown silty sand fill (tank backfill) and orange-brown clayey sand (native soil). Gasoline staining was observed in the majority of the silty sand backfill and in the native soil at the bottom of the excavation at the eastern end. Both the backfill and the native soil had a moderate to strong petroleum odor. The bottom of the excavation was approximately 8 feet below ground surface, and no free water was encountered. After the sampling, the excavation was deepened to approximately 9-1/2 feet below the ground surface so that contaminated soil within reach of the excavation equipment could be removed. All excavated soil was stockpiled adjacent to the excavation.

The three tanks were in poor condition. Numerous cracks were found in the steel sidewalls and end seams; some pitting of the steel was also observed. Because we did not observe the actual tank removal, we do not know which, if any, of the cracks in the tanks occurred during removal.

#### SOIL SAMPLING AND CHEMICAL ANALYSIS

The soil was sampled and the samples preserved in accordance with the RWQCB guidelines. All soil samples from the tank excavations were collected from the backhoe bucket, which had excavated approximately 18 inches below the floor of the excavation at the ends of each tank. Each soil sample was inserted into a clean brass tube, which was then closed with aluminum foil, capped, and sealed with tape. All sample tubes were stored on ice until delivery to the analytical laboratory.

The samples were delivered with proper chain-of-custody records to Trace Analysis Laboratory (TAL) in Hayward, California on the day they were collected. The samples were analyzed for total volatile petroleum hydrocarbons (TVH) by EPA-approved methods. The results of the analysis are presented on the attached TAL laboratory report and summarized in Table 1.

Table 1. Analysis Results

Sample No.	Sample Location within Tank Excavation	Total Volatile Hydrocarbon Concentration (parts per million)
1	Northwest at 9 feet	17
2	Southwest at 9 feet	170
3	North Center at 6.5 feet	8800
4	South Center at 6.5 feet	2900
5	Northeast at 8 feet	920
6	Southeast at 8 feet	690

#### STOCKPILE SAMPLE ANALYSIS

Three soil samples were collected from three separate areas within the stockpile. The samples were composited and analyzed by TAL for TVH. The TVH concentration was found to be 410 parts per million (ppm), which is noted in the attached TAL report.

#### CONCLUSIONS

On the basis of the results of our preliminary hazardous waste assessment and our observations and chemical analysis during tank removal, we conclude that at least one, and possibly all, of the clustered gasoline tanks have leaked. Although it is likely that some overflow spillage occurred, the condition of the tanks and the extent of hydrocarbons encountered in the soils also indicates leakage. Both overflowing and leakage may have contributed to the measured hydrocarbon concentrations.

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c/o Garcia/Wagner and Associates  
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We trust that this provides the information you require at this time. If you have any questions, please call.

Yours very truly,

HARDING LAWSON ASSOCIATES

*Daniel A. Louis*

Daniel A. Louis  
Project Engineer

*Donald E. Bruggers*

Donald E. Bruggers  
Civil Engineer

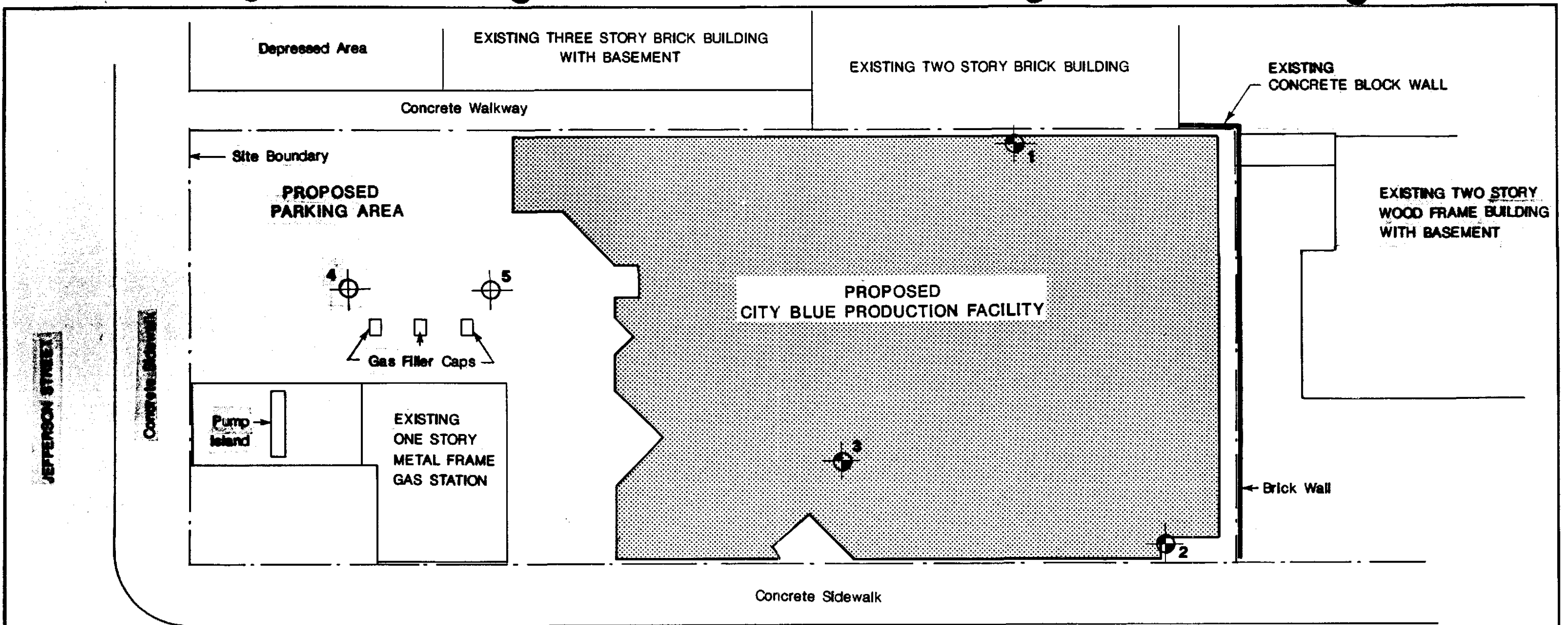
DAL/DEB/nlh

Attachments: Plate 1 - Site Plan  
TAL Report

cc: Blue Print Service Company  
149 Second Street  
San Francisco, California 94105  
Attention: Mr. Paul Koze

3 copies submitted

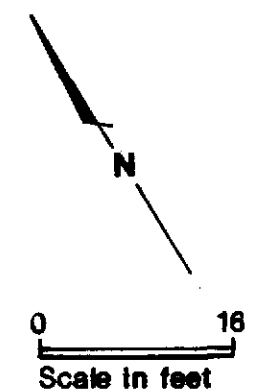




SEVENTEENTH STREET

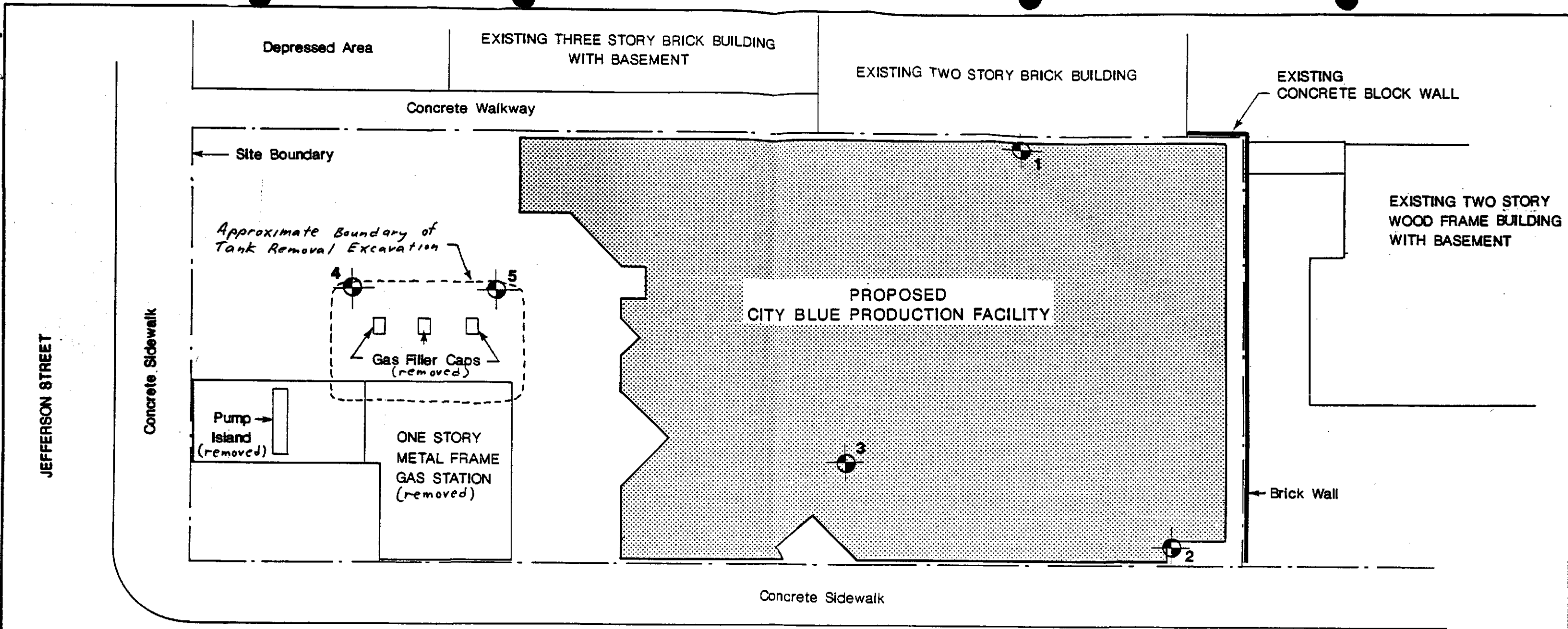
**EXPLANATION**

- 1 Boring and Number Location, this investigation
- 4 Boring and Number Location, Underground Tank Investigation



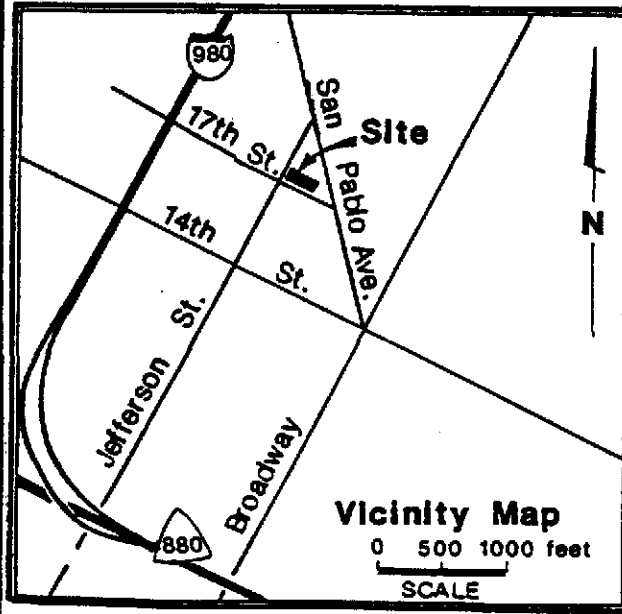
- REFERENCES:**
1. "Preliminary Site Plan, City Blue Production Facility, 1700 Jefferson Street, Oakland, California," by Garcia/Wagner and Associates, dated Feb. 17, 1987.
  2. Untitled Survey (partial print), Seventeenth Street and Jefferson Street, Surveyor unknown

	<b>Harding Lawson Associates</b> Engineers, Geologists & Geophysicists		<b>Site Plan (Soil Investigation)</b> City Blue Production Facility Oakland, California		PLATE <b>1</b>
	DRAWN AG	JOB NUMBER 18106,001.04	APPROVED <i>DJ</i>	DATE 2/87	REVISED 



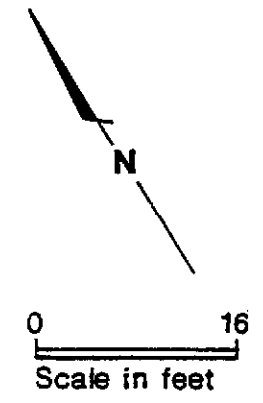
JEFFERSON STREET

SEVENTEENTH STREET



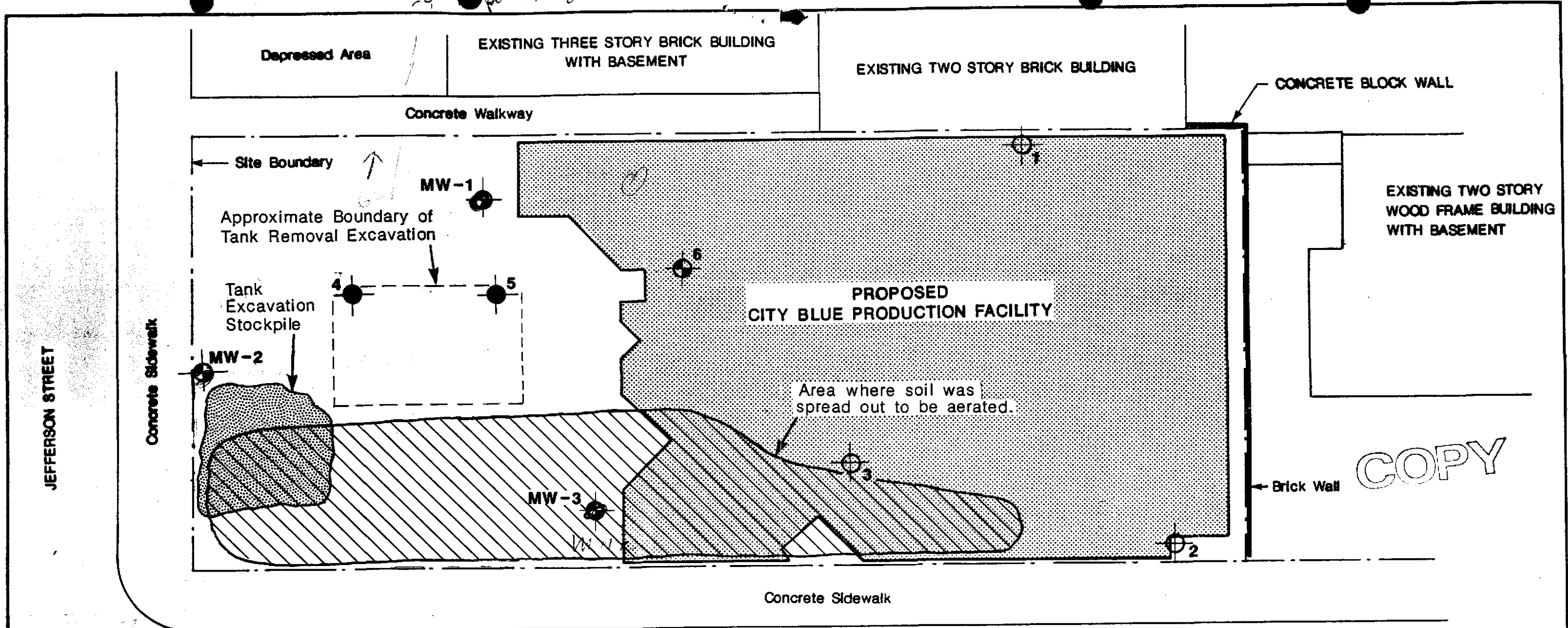
**EXPLANATION**  
 1. Boring and Number Location, (previous investigations)

- REFERENCES :**
1. "Preliminary Site Plan, City Blue Production Facility, 1700 Jefferson Street, Oakland, California," by Garcia/Wagner and Associates, dated Feb. 17, 1987.
  2. Untitled Survey (partial print), Seventeenth Street and Jefferson Street, Surveyor unknown.

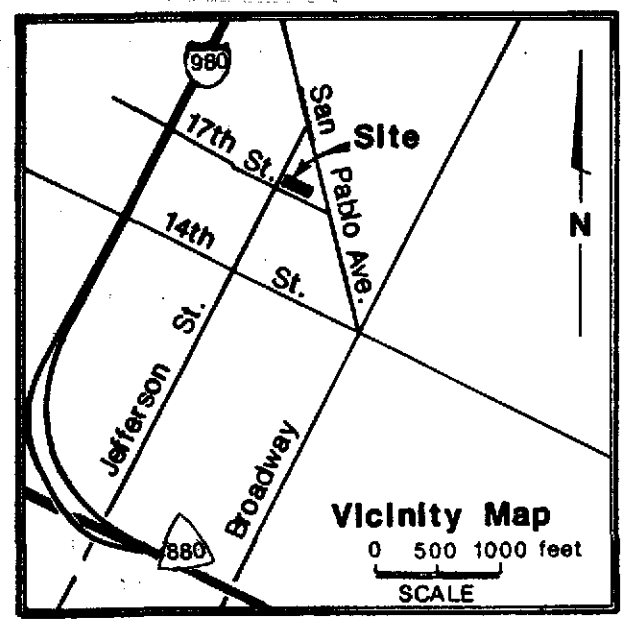


<b>Harding Lawson Associates</b> Engineers, Geologists & Geophysicists		<b>Site Plan</b> City Blue Production Facility Oakland, California		PLATE <b>1</b>	
DRAWN AG	JOB NUMBER 18106,001.04	APPROVED <i>DL</i>	DATE 2/87	REVISED DL	DATE 8/87




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COPY

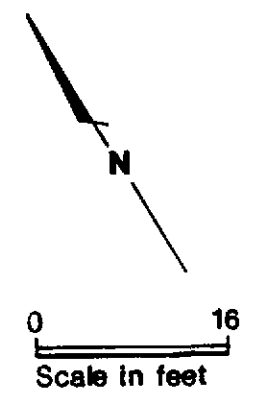



**EXPLANATION**

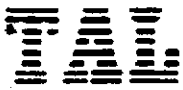
-  Boring Location and Number, Preliminary Hazardous Waste Assessment
-  Boring Location and Number, Soil Investigation
-  Approximate Monitoring Well or Boring Location, this Investigation

**REFERENCES :**

1. "Preliminary Site Plan, City Blue Production Facility, 1700 Jefferson Street, Oakland, California," by Garcia/Wagner and Associates, dated Feb. 17, 1987.
2. Untitled Survey (partial print), Seventeenth Street and Jefferson Street, Surveyor unknown.



 <b>Harding Lawson Associates</b> Engineers, Geologists & Geophysicists	<b>Site Plan</b>		City Blue Production Facility		PLATE
	Oakland, California		1		
DRAWN AG	JOB NUMBER 18106,002.04	APPROVED DJ	DATE 2/87	REVISED	DATE 7/87

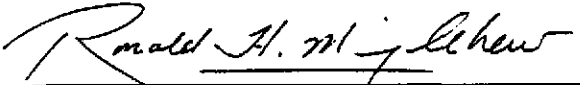


DATE: 7/6/87  
LOG NO.: 4872  
DATE SAMPLED: 6/16/87  
DATE RECEIVED: 6/16/87

CUSTOMER: Harding Lawson Associates  
REQUESTER: Dan Louis  
PROJECT: No. 18106, 001.04, City Blue/Oakland

Sample Type: Soil

<u>Method and Constituent</u>	<u>Units</u>	<u>Detection Limit</u>	<u>No. 1-N.W.@9' Concentration</u>	<u>No. 2-S.W.@9' Concentration</u>
Modified EPA Method 8015:				
Volatile Hydrocarbons	mg/kg	0.4	17	170
			<u>No. 3-N. Center@6.5'</u>	<u>No. 4-S. Center@6.5'</u>
Modified EPA Method 8015:				
Volatile Hydrocarbons	mg/kg	1	8800	2900
			<u>No. 5-N.E.@8'</u>	<u>No. 6-S.E.@8'</u>
Modified EPA Method 8015:				
Volatile Hydrocarbons	mg/kg	0.4	920	690
			<u>Composite of Nos. 7,8,9- Stockpiles A,B,C</u>	
Modified EPA Method 8015:				
Volatile Hydrocarbons	mg/kg	0.4	410	

  
Ronald H. Ming Chew  
Supervisory Chemist

RHC:mln



Harding Lawson Associates



Transmittal/Memorandum

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**To:** Blue Print Service Co.  
149 Second Street  
San Francisco, CA 94105

Attention: Mr. Paul Koze, Jr.

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**From:** Daniel Louis  
**Date:** April 9, 1987  
**Subject:** City Blue Production Facility  
**Job No.:** 18106,001.09

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**Remarks:**

Attached is a completed copy of the contamination report for the City Blue Production Facility in Oakland, California.

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**cc:** Alameda Co. Environmental Health Service      Toxic Substances Control Division  
Garcia/Wagner and Associates  
State Water Resources Control Board  
Regional Water Quality Control Board

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Engineers  
Geologists &  
Geophysicists

666 Howard St.  
San Francisco  
California 94105

Telephone  
415/543-8422  
Telex 340523

Alaska  
California

Hawaii  
Nevada

Texas

**UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/CONTAMINATION SITE REPORT**

<b>EMERGENCY</b> <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	STATE TANK ID # <u>N/A</u>
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REPORT DATE <u>01/4/10 01/8/8 y/7 y</u>	LOCAL CASE # <u>N/A</u>	REGIONAL BOARD CASE # <u>N/A</u>	US EPA ID # <u>N/A</u>
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<b>REPORTED BY</b>	NAME OF INDIVIDUAL FILING REPORT <u>Daniel A. Louis</u>	PHONE <u>(415) 543-8422</u>	SIGNATURE
	REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD	COMPANY OR AGENCY NAME <u>Harding Lawson Associates</u>	

ADDRESS <u>666 Howard Street, Third Floor,</u> <small>STREET</small>	CITY <u>San Francisco,</u>	STATE <u>California</u>	ZIP <u>94105</u>
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<b>RESPONSIBLE PARTY</b>	NAME <u>BAM Properties/ Blue Print Service Co.</u> <input type="checkbox"/> UNKNOWN	CONTACT PERSON <u>Paul Koze, Jr.</u>	PHONE <u>(415) 495-8700</u>
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ADDRESS <u>149 Second Street,</u> <small>STREET</small>	CITY <u>San Francisco,</u>	STATE <u>California</u>	ZIP <u>94105</u>
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FACILITY NAME (IF APPLICABLE) <u>N/A</u>	OPERATOR <u>Blue Print Service Co.</u>	PHONE <u>(415) 495-8700</u>
---	---	--------------------------------

ADDRESS <u>1700 Jefferson Street,</u> <small>STREET</small>	CITY <u>Oakland,</u>	COUNTY <u>Alameda</u>	ZIP <u>94612</u>
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CROSS STREET <u>17th St.</u>	TYPE OF AREA <input checked="" type="checkbox"/> COMMERCIAL <input type="checkbox"/> INDUSTRIAL <input checked="" type="checkbox"/> RESIDENTIAL <input type="checkbox"/> RURAL <input type="checkbox"/> OTHER	TYPE OF BUSINESS <input type="checkbox"/> RETAIL FUEL STATION <input type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> OTHER <u>Private Fuel Station</u>
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<b>IMPLEMENTING AGENCIES</b>	LOCAL AGENCY AGENCY NAME <u>Alameda Co. Environmental Health Service</u>	CONTACT PERSON <u>Ted Gerow</u>	PHONE <u>(415) 874-6434</u>
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REGIONAL BOARD <u>S.F. Bay Region, RWQCB</u>	CONTACT PERSON <u>Peter Johnson</u>	PHONE <u>(415) 464-0838</u>
---	--	--------------------------------

TSCD <u>Underground Tank Program</u>	CONTACT PERSON <u>N/A</u>	PHONE <u>(916) 324-1826</u>
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CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME <u>Gasoline</u>	QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN
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CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME <u> </u>	QUANTITY LOST (GALLONS) <input type="checkbox"/> UNKNOWN
---	---

<b>DISCOVERY/ADVENTURE</b>	DATE DISCOVERED <u>01/21/09/8 y/7 y</u>	HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> ROUTINE MONITORING <input type="checkbox"/> TANK REMOVAL <input type="checkbox"/> NUISANCE CONDITIONS <input checked="" type="checkbox"/> OTHER: <u>Soil Boring</u>
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DATE DISCHARGE BEGAN <u> </u> MI <u> </u> DI <u> </u> YI <u> </u> YI <input checked="" type="checkbox"/> UNKNOWN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input checked="" type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> REPLACE TANK <input type="checkbox"/> CLOSE TANK
---	--

HAS DISCHARGE BEEN STOPPED? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE <u> </u> MI <u> </u> DI <u> </u> YI <u> </u> YI	<input type="checkbox"/> REPAIR TANK <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> CHANGE PROCEDURES <input checked="" type="checkbox"/> OTHER <u>Tanks will be emptied and removed.</u>
--	---

SOURCE(S) OF DISCHARGE <u>Unknown</u> <input type="checkbox"/> TANK LEAK <input checked="" type="checkbox"/> UNKNOWN <input checked="" type="checkbox"/> PIPING LEAK (suspected) <input type="checkbox"/> OTHER (SPECIFY) <u> </u>	TANKS ONLY/CAPACITY <u>2550</u> GAL AGE <u> </u> YRS. <input checked="" type="checkbox"/> UNKNOWN MATERIAL <input checked="" type="checkbox"/> STEEL <input type="checkbox"/> FIBERGLASS <input type="checkbox"/> OTHER <u> </u>	CAUSE(S) <input checked="" type="checkbox"/> OVERFILL <input type="checkbox"/> CORROSION <u>(suspected)</u> <input checked="" type="checkbox"/> RUPTURE/FAILURE <input type="checkbox"/> SPILL <u>(suspected)</u> <input checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER <u> </u>
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<b>RESOURCES AFFECTED</b> YES NO THREATENED UNKNOWN AIR (VAPOR) <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> SOIL (VAPOUR ZONE) <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> SURFACE WATER OR STORM DRAIN <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> BUILDING OR UTILITY VAULT <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> OTHER (SPECIFY) <u> </u> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<b>WATER SUPPLIES AFFECTED</b> YES NO THREATENED UN- KNOWN # OF WELLS PUBLIC DRINKING WATER <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <u> </u> PRIVATE DRINKING WATER <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <u> </u> INDUSTRIAL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <u> </u> AGRICULTURAL <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <u> </u> OTHER (SPECIFY) <u> </u> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <u> </u>
GROUNDWATER BASIN NAME <input type="checkbox"/> UNKNOWN	

**COMMENTS:**  
Tanks (3) are being emptied and removed from the site. Backfill and reachable contaminated soil will be removed or aerated and replaced. Monitoring well(s) will be installed to monitor groundwater.

NEW FORM BY SG 2/24/88

UNDERGROUND STORAGE TANK UNAUTHORIZED RELEASE (LEAK)/CONTAMINATION SITE REPORT

EMERGENCY  YES  NO HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED?  YES  NO STATE TANK ID # N/A *Selimum, A.C.H.D.*

REPORT DATE 01/4/10 01/8/17 LOCAL CASE # N/A REGIONAL BOARD CASE # N/A US EPA ID # N/A

REPORTED BY NAME OF INDIVIDUAL FILING REPORT Daniel A. Louis PHONE (415) 543-8422 SIGNATURE  
 REPRESENTING  LOCAL AGENCY  OTHER  OWNER/OPERATOR  REGIONAL BOARD COMPANY OR AGENCY NAME Harding Lawson Associates

ADDRESS 666 Howard Street, Third Floor, San Francisco, California 94105

RESPONSIBLE PARTY NAME BAM Properties/ Blue Print Service Co. CONTACT PERSON Paul Koze, Jr. PHONE (415) 495-8700

ADDRESS 149 Second Street, San Francisco, California 94105

SITE LOCATION FACILITY NAME (IF APPLICABLE) N/A OPERATOR Blue Print Service Co. PHONE (415) 495-8700

ADDRESS 1700 Jefferson Street, Oakland, Alameda

CROSS STREET 17th St. TYPE OF AREA  COMMERCIAL  INDUSTRIAL  RESIDENTIAL  RURAL  OTHER TYPE OF BUSINESS  RETAIL FUEL STATION  OTHER Private Fuel Station

IMPLEMENTING AGENCIES LOCAL AGENCY AGENCY NAME Alameda Co. Environmental Health Service CONTACT PERSON ~~Fred~~ S. Gornowicz PHONE (415) 874-6434

REGIONAL BOARD S.F. Bay Region, RWQCB CONTACT PERSON Peter Johnson PHONE (415) 464-0838

TSCD Undergroud Tank Program N/A PHONE (916) 324-1826

SUBSTANCE INVOLVED CAS # (ATTACH EXTRA SHEET IF NEEDED) NAME Gasoline QUANTITY LOST (GALLONS)  UNKNOWN

DATE DISCOVERED 01/21/10 10/18/77 HOW DISCOVERED  INVENTORY CONTROL  SUBSURFACE MONITORING  ROUTINE MONITORING  TANK REMOVAL  NUISANCE CONDITIONS  OTHER: Soil Boring

DATE DISCHARGE BEGAN MI MI DI DI YI YI  UNKNOWN METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)  REMOVE CONTENTS  REPLACE TANK  CLOSE TANK

HAS DISCHARGE BEEN STOPPED?  YES  NO IF YES, DATE MI MI DI DI YI YI  UNKNOWN  OTHER Tanks will be emptied and removed.

SOURCE/CAUSE OF DISCHARGE  TANK LEAK  UNKNOWN TANKS ONLY/CAPACITY 2550 GAL CAUSE(S)  OVERFILL  CORROSION

PIPING LEAK (suspected) AGE  YRS.  UNKNOWN MATERIAL  STEEL  FIBERGLASS  RUPTURE/FAILURE (suspected)  SPILL

OTHER (SPECIFY)  UNKNOWN  UNKNOWN  OTHER

RESOURCES AFFECTED AT RISK	RESOURCES AFFECTED				WATER SUPPLIES AFFECTED				
	YES	NO	THREATENED	UNKNOWN	YES	NO	THREATENED	UNKNOWN	
AIR (VAPOR)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PUBLIC DRINKING WATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SOIL (VAPOSE ZONE)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRIVATE DRINKING WATER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
GROUNDWATER	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	INDUSTRIAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
SURFACE WATER OR STORM DRAIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	AGRICULTURAL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BUILDING OR UTILITY VAULT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OTHER (SPECIFY)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
OTHER (SPECIFY)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

GROUNDWATER BASIN NAME  UNKNOWN

COMMENTS: Tanks (3) are being emptied and removed from the site. Backfill and reachable contaminated soil will be removed or aerated and replaced. Monitoring well(s) will be installed to monitor groundwater. Free Product currently being removed from site. Other media