



AMERICAN BRASS & IRON FOUNDRY

7825 San Leandro Street • Oakland, CA 94621 • (510) 632-3467
Fax No. (510) 632-8035

September 22, 1992

Mr. Barney Chan
Hazardous Materials Specialists
ALAMEDA COUNTY HEALTH AGENCY
Division of Hazardous Materials
80 Swan Way, Room 200
Oakland, CA 94621

**Subject: Report on Removal of 12,000 Gallon Capacity
Underground Diesel Fuel Storage Tank,
American Brass & Iron Foundry,
Oakland, California**

Dear Mr. Chan:

In accordance with Alameda County Health Agency and Tri-Regional Board Staff Recommendations for Underground Storage Tank Removal Procedures, please find enclosed American Brass & Iron Foundry's closure report for the removal of an on site 12,000 gallon storage tank.

The closure report reflects a portion of the initial underground storage tank closure plan submitted to Alameda County Health Agency on August 1, 1991. It is our intention to address all groundwater monitoring programs at the completion of the overall tank removal project at AB&I. Information on soil geology and groundwater contamination for surrounding property locations are being reviewed in order to fully evaluate a soil groundwater investigation.

If you require further information or have additional questions, please feel free in contacting me at (510) 632-3467 ext. 211.

Sincerely,

Dave Robinson
Environmental Engineering Manager

cc: Lester Feldman, Regional Water
Quality Control Board

John Sturman, Levine*Fricke
Consultants



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REMOVAL OF 12,000 GALLON CAPACITY
UNDERGROUND DIESEL FUEL STORAGE TANK
AMERICAN BRASS & IRON FACILITY
OAKLAND, CALIFORNIA

1.0 INTRODUCTION

This report describes American Brass and Iron's removal program for one 12,000 gallon capacity underground diesel fuel storage tank from the facility located at 7825 San Leandro Street in Oakland, California; refer to Figure 1 for location details. This tank removal is the last of four UST removals as called out by AB&I's current on-site tank closure program.

Throughout the tank removal process, AB&I solicited assistance from various support groups including, Levine*Fricke, Quanteo Laboratories, Oakland, Fire Department, Alameda County Health Services, H & H Environmental and Walts Excavation Services. Levine*Fricke Consultants were the main contributors in assisting with the interpretation and conclusions for addressing this tank removal process.

2.0 SITE HISTORY

AB&I has owned and operated at the present location since 1930. The main operation consists of the manufacturing of Gray Iron in the form of various sand castings, including an assortment of sizes pertaining to soil sewer pipe. The company has maintained operations in a progressive management style in order to remain competitive in the market place.

Throughout AB&I's progression, various equipment were purchased in order to increase efficiently and decrease manpower. The foundry operations are extremely dependent upon the operation of heavy equipment for transportation of raw materials and final products. AB&I has chosen to use diesel fuel as the main fuel supply for the equipment including their facility backup generator.

The tank in question, which was removed, was the primary storage tank for the Diesel Fuel #2. The tank was originally installed in the early 1970's for the sole purpose of storing diesel fuel. To our knowledge the tank was maintained for this purpose, the addition of any other material would have contaminated the fuel and stifled the operation at the plant.



3.0 GENERAL DESCRIPTION OF CLOSURE ACTIVITIES

The overall tank removal program was managed by AB&I with direct assistance and involvement by all of the above mentioned parties. The tank was a 12,000 gallon, 1/4" thick steel tank, which was located on the northwest corner of the production facility. Refer to Figure 2 for details on tank location. The actual operation began on May 23, 1991. This tank removal was the fourth of a series of four tanks to be removed on site at 7825 San Leandro Street, Oakland. Refer to Appendix A for the original closure plan.

The tank was located beneath a 6" reinforced concrete pad with one building support column approximate 10' from the longitudinal side of the tank. The operation entailed the removal of the concrete pad of an area of 20' by 30' using a large motorized hydraulic pin digger to allow room for the removal of the tank. Soil was removed above and around the tank and the tank was removed, along with the minor piping system. Various soil samples were taken to determine if contamination was present and to what extent. On site a PID meter was used during the operation for indicating the potential contamination concentration of excavated soil. A water sample was also taken, although the water in the pit was not allowed sufficient time to flush to eliminate the mixing action created by the excavation work.

Once the tank had been removed, further excavation work was performed in an attempt to eliminate as much suspected contamination as possible and secondly to determine both the lateral and vertical extent of the contamination. The excavation hole was greatly increased in an attempt to remove any contaminated soil from around the tank. The hole was enlarged as much as possible and was back filled with clean fill rock. Due to the location and the proposed use, the area was resurfaced with concrete and reinforced with steel mesh. The tank was manifested and disposed of through H & H Ship Service Company. A detailed account of each phase of the project is specified in the proceeding sections.

4.0 CLOSURE ACTIVITIES

A. Description of Tank and Materials

The excess Diesel Fuel #2 was transferred to an above ground fuel tank (convault) for future use and the UST was Pump Dry. The inside of the tank was high pressure rinsed, using a steam generating machine. Approximately 150 gallons of rinsate was collected and pumped into a collection area. The fuel was



A. Description of Tank and Materials (con't.)

separated from the water and sent to California Oil Recyclers for further treatment. The tank had been originally wrapped with tar and tar paper which had remained intact. Piping for the UST was relatively minor due to the fuel dispenser being close by and above ground. The fuel dispenser was removed along with all above ground piping prior to removal of the surface concrete pad.

B. Description of Excavation and Tank Removal

On May 20, 1992, a Bobcat hydraulic pin digger, along with a jack hammer were rented, in order to adequately break through and remove a reinforced concrete pad. The original concrete pad consisted of a section approximately 30 feet by 25 feet, allowing ample room for the removal process and any required excavation area. This particular portion of the project was extremely time consuming and consisted of virtually a weeks worth of operation. Included in this stage of the operation was the set up of a transfer pump and piping. In addition all electrical conduits were removed prior to the removal of the concrete.

The initial excavation included the over-burden soil above and around the sides of the tank. The actual excavation process began on June 3, 1992. All excavated soil was removed and piled away from the actual excavation activities.

During the operations the fill, product, and vent piping were removed and set aside for subsequent removal from the site. Three tank port holes were open and 250 pounds of pelletized dry ice was placed into the tank at each end and in the center part. Combustible gasses and oxygen concentrations were measured in the tank using a combustible gas meter. The air inside the tank was drawn to the meter through tubing that was lowered approximately 5 feet into the tank. Inspector Brunelle, with the Oakland Fire Department, witnessed and approved the removal of the tank. The final meter readings indicated that the combustible gases were below 10% of the Lower Explosion Limit (LEL) and the oxygen content at 1.5%. Refer to Appendix B for information.

The tank port holes were sealed with wood plugs and the tank was lifted out using AB&I's crawler crane. Once out, the tank was placed directly onto a "low boy" trailer along with support piping for disposal with H & H Ship Service. The tank was manifested and recorded under EPA Manifest number 91510000. A copy of this manifest is included in Appendix B.



C. Description of Sampling Methods

Once the tank was removed from the site, along with all piping appurtenant to the tank, one initial soil sample was taken at the east end of the tank at approximately 12 feet, directly below the tank. Due to the extensive excavation, we chose to take a water sample at the end of the excavation process. The Photoionization Detector (PID) meter was used throughout the process as an approximation potential contamination. Although the use of a PID meter for diesel is poor, it will give a preliminary indication of possible contamination.

Soil samples were collected using a backhoe. The backhoe operator was directed to remove portions of native soil (not tank bedding material) at the desired depth and location with the backhoe bucket. After raising the backhoe bucket to the ground surface, soil samples were collected by driving 2-inch diameter brass liners into the desired portion of soil in the backhoe bucket. After filling the tube completely to minimize headspace, the ends of the tube were enclosed with plastic caps over aluminum foil and sealed with cloth tape. Samples were labelled and placed in a chilled ice chest.

The sampling process was performed solely by Mr. Michael Stoll with Levine*Fricke Consultants, this included all sampling materials and suggested sampling locations. The sampling locations were chosen to best represent potential soil contamination and to determine the effects of the excavation process.

5.0 REMEDIATION ACTIVITIES

A. Excavation of Contaminated Soil

A Photoionization Detector (PID) was used simply as a way to screen the soil samples encountered in the excavation process for Volatile Organic Compounds (VOC). It was understood that diesel fuel has limited volatile properties and the PID meter would indicate a fraction of the actual concentration in the soil. This process was used as an indication of possible contamination and not a verification of the actual contamination concentration. Originally the soil surrounding the tank was excavated using a backhoe to a distance of 3-6 feet from the sides of the tank in determining the lateral extent of potential diesel fuel affected soil. On June 4, 1992, approximately 180 cubic yards of soil were removed under the observation of Levin*Fricke.



A. Excavation of Contaminated Soil (con't)

The excavated soil surrounding the tank consisted of fine sand, gravel, foundry sand and various pieces of glass. The general characteristics of the excavated soil was somewhat of a conglomerate of material which appeared to be from past foundry practices.

The excavated material on the east end of the tank had both a diesel odor and a greenish discoloration. This section was directly below the former dispenser location. It appears from the excavation that the contamination was centralized on the east end, with the west end appearing to be clean. Additional removal of the concrete pad was necessary in order to continue excavating in the south easterly direction. The excavation on the east end actually extended approximately 4 feet beyond the edge of the concrete in order to remove contaminated soil down to the water table.

The excavation process was aborted due to the level of contamination and difficulty in removing the concrete surface structure. On June 5, 1992, the excavation was stopped, for it appeared that virtually all the contaminated soil had been removed. Figure 4 illustrates the UST removal and excavation area. The sampling process was the next step for determining the outcome of results of the excavation.

B. Sampling Methods

The excavation process continued until it appeared that the soil was unaffected by diesel fuel, using the PID meter, soil odor and discoloration as indicators. Samples of the remaining native soils were collected to confirm soil quality around the perimeter of the excavation. Effort on the far east side required extensive excavation in order to eliminate potential contaminant soil. Although the excavation area was somewhat irregular, the sampling locations were chosen to best identify the contamination of the subsurface area.

All sampling was performed by Michael Stoll, Senior Geologist, with Levine*Fricke Consultants, using the same methodology as stated previously in a prior section. A series of six soil samples were taken to best represent the investigation. Each sample was tested for extractable hydrocarbons as diesel using EPA 3550(GCFID) and BTXE using method EPA 8020(5080). Soil samples collected during the excavation were labelled DEW1-E-9, DEW2-N-9, DEW3-N-8.5, DEW4-W-8, DEW5-S-8.5 and DEW6-S-9.



B. Sampling Methods (con't.)

In addition to soil sampling, a groundwater sample was taken. The sample was labelled D-Groundwater and was also tested for extractable hydrocarbons as diesel in milligrams per liter using method EPA 8020 (BTEX Water Matrix). During the excavation process it was evident that the water mixed with the contaminated soil to generate an obvious contaminated solution. Although the water was allowed to settle, the samples did not appear representative of the actual groundwater contamination level. Provided in Figure 2 is a sampling location map representing all sample locations with respect to the UST and the excavation area.

C. Storage of Contaminated Soil

All excavated soil was removed from the excavation site and was transported at the north end of the property. The material was placed on a concrete pad inside a covered building. The stock pile was divided into two piles based upon the excavation of the material. Extreme care was taken to segregate the soil in order to reduce the amount of material requiring treatment. Due to the contamination being diesel, aeration does not appear to be a viable remediation option. Samples of the unaffected soil were recently taken and submitted to NET Laboratories for analysis. All sampling protocols were compliant with EPA SW-846 sampling guidelines.

D. Excavation Backfill Procedures

On June 5, 1992 the back filling of the excavated area was conducted by AB&I personnel using front end loaders. This portion of the project was important not only from the standpoint of implementing clean soil into the excavated area but equally important was that the backfill process was done correctly to support heavy traffic of large operating equipment.

The backfill consisted of clean soil and gravel, layered to generate effective drainage and foundation support. A motorized soil compactor was used to enhance the compaction of the soil. The excavated section was covered with reinforced concrete approximately 10 inches thick.



6.0 GENERAL FIELD OBSERVATIONS

The storage tank was in surprisingly good condition with the outside tar wrap still intact and no apparent damage to the outside of the tank. The tank and piping appeared to be without any visible leaking or contamination of any soil directly in contact with the surface.

Using the PID meter and visual observations, the excavated soil surrounding the tank, in general, appeared to be relatively unaffected by any potential solvent contamination. Due to the size of the tank, the excavation was fairly extensive, reaching depths of 11 feet. All field notes of the project are located in Appendix A. These included both Levine*Fricke Consultants and Alameda County Health Services.

Water seepage into the excavation was observed at a depth of about 9-10 feet, with standing water collecting in the east end corner. Based on prior field observation from previous removals of UST here on site, it is expected that static groundwater is at a depth of about 10 to 13 feet below ground surface. The groundwater conditions were extremely poor due mainly to the excavation process which created a mixing action of the soil and water. Because of time restraints and pump equipment malfunctions the water was unable to sufficiently flush in order to take a representative sample. The visible observation of the sample indicated that a poor representative sample was chosen based on the amount of debris in the water from the excavation efforts.

7.0 LABORATORY ANALYSIS

All soil and water samples were taken by Mr. Michael Stoll of Levine*Fricke using EPA sampling methods during the excavation. The samples were submitted to Quanteo Laboratories Analytical with the Chain of Custody being directly from Mr. Michael Stoll.

Results of the laboratory analysis, along with the Chain of Custody are provided in Appendix C. The soil samples collected from the excavation indicated that the soil below and around the former tank was virtually unaffected by diesel fuel contamination, with limits ranging from 0 to 2.0 milligrams per kilogram (mg/kg). Accessible soil immediately below the former tank were excavated to a depth of approximately 13 feet providing an adequate assessment in fully understanding potential vertical contamination.]?



7.0 LABORATORY ANALYSIS (con't.)

The analysis for TPH-Diesel indicated affected soil on the south east section of the excavation. Demonstrating some hydrocarbon contamination. Although the contamination level was fairly minor, limits for Benzene, Toluene, Ethylbenzene and Xylenes were non detected for all samples. All laboratory analysis results are located in Appendix C.

As expected, the water sample indicated a higher level for the TPH-Diesel analysis, but continued a non detect level for the BTEX testing. The contamination level for TPD-Diesel was 6.8 milligrams per liter; refer to Table 1 for details.

8.0 SOIL / WATER QUALITY RESULTS

The soil analysis results demonstrating the soil was unaffected by diesel fuel contamination caused from leakage of the storage tank and piping connections. The southeast corner was the only indication of soil contamination with a level of 2 milligrams per kilogram. As depicted by the sampling layout map, sufficient samples were taken to determine both the lateral and vertical contamination level surrounding the UST excavation. Among other parameters the down gradient direction for this area was considered in choosing sampling locations.

The water analysis indicated a higher level of contamination level for all compounds in question than was expected or indicated from both visible observations and soil analysis results. The high levels are more than likely a direct result of the extensive excavation process and the stringent project time frames. As indicated by the soil/water analysis results, it appears the water sample was not representative of the water quality which exist.

9.0 CONCLUSION / RECOMMENDATION

A 12,000 gallon underground diesel fuel storage tank was removed from the site and approximately 180 cubic yards of excavated soil were removed. The tank removal went according to plan with the aid of the crawler crane, which allowed us to remove the tank and load onto a "low boy" for direct disposal. The tank appears to be in good shape with the outside wrap material in tack. The excavation process was larger than originally anticipated but resulted in the virtual elimination of soil contamination surround the prior UST location.



9.0 CONCLUSION / RECOMMENDATION (con't.)

Overall the soil was found, for all purposes, to be relatively unaffected by diesel fuel contamination both beneath and on the sides of the former storage tank. The tank and underground piping appeared to be intact and was not the cause of the contamination. From the location of the contamination and the minimum vertical depth at which contamination was discovered, it was evident the contamination was probably a direct result of poor vehicles fuel filling practices. The highest concentration was near the ground surface versus the lowest concentration at groundwater level.

As indicated by the water analysis contamination levels, in conjunction with soil analysis and visible observation of the removal process, it is apparent with the inconsistent results from the water sample taken was not representative. It is our judgement additional water samples must be taken to best qualify the water quality and the potential impact of contamination generated from the underground storage tank.

Based upon our review of the work performed, sampling and analysis procedures, and the results obtained, it is our opinion that the work was performed in compliance with applicable tank closure requirements.

It is our recommendation that a monitoring well be installed in the down gradient direction and a shallow groundwater monitoring program be established in order to access the extent of any potential groundwater contamination.



Dave Robinson, REA
No. 03815, exp. 6/30/93

TABLE 1

Soil and Water Quality Results
American Brass & Iron Foundry
12,000 Gallon Diesel Tank Removal
7825 San Leandro Street
Oakland, CA

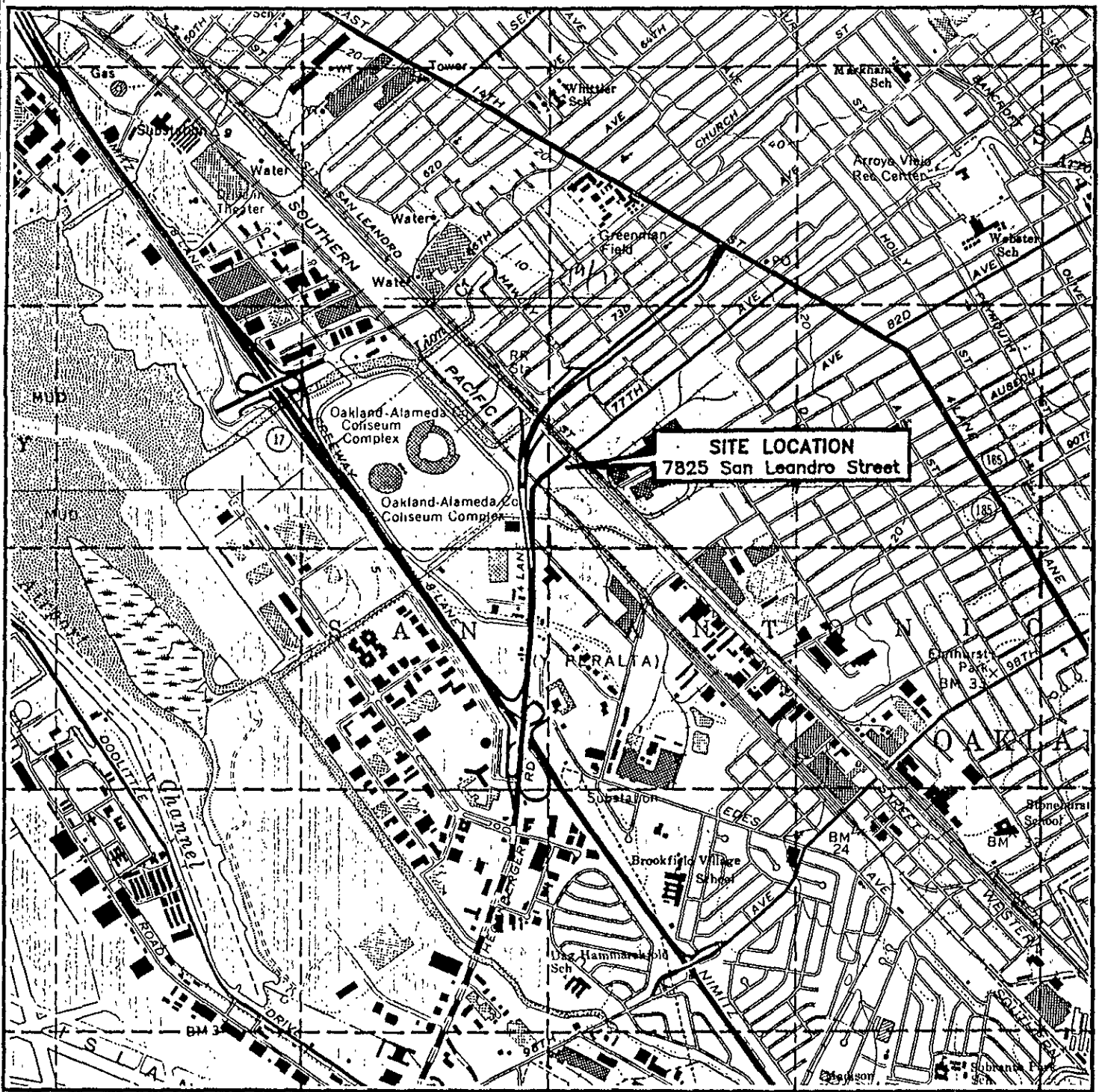
| <u>Sample Number</u> | <u>Date Collected</u> | <u>Depth (feet)</u> | <u>Extractable Hydrocarbons as Diesel (mg/kg)</u> | <u>Benzene</u> | <u>BTEX (Soil Matrix)</u> Method EPA 8020 | | <u>Xylenes, Total</u> |
|---|-----------------------|---------------------|---|----------------|--|---------------------|-----------------------|
| | | | | | <u>Toluene</u> | <u>Ethylbenzene</u> | |
| Soil Samples (results in milligrams per kilogram [mg/kg]) | | | | | | | |
| DEW 1-E-9 | 6-5-92 | 9 | ND | ND | ND | ND | ND |
| DEW 2-N-9 | 6-5-92 | 9 | ND | ND | ND | ND | ND |
| DEW 3-N-8.5 | 6-5-92 | 8.5 | ND | - | - | - | - |
| DEW 4-W-8 | 6-5-92 | 8 | ND | ND | ND | ND | ND |
| DEW 5-5-8.5 | 6-5-92 | 8.5 | ND | - | - | - | - |
| DEW 6-5-9 | 6-5-92 | 9 | 2 | ND | ND | ND | ND |
| Water Samples (results in milligrams per liter [mg/l]) | | | | | | | |
| D-Groundwater | 6-5-92 | 10 | 6.8 | ND | ND | ND | ND |

NOTES:

All samples were analyzed by Quanteo Laboratories.



FIGURE 1.0
Site Location Map



4181
4180
4178
4177
4176

569

570

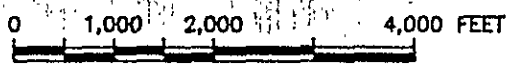
571

572

573

MAP SOURCE: U.S.G.S. 7.5' Quadrangle, San Leandro/Oakland East, California, 1980.

SCALE



1 INCH = 2,000 FEET

2488-A08

Figure 1 : SITE VICINITY

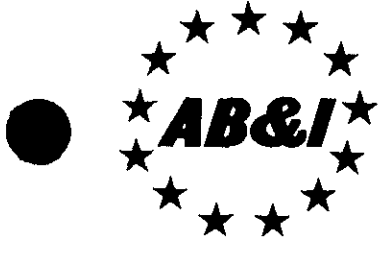
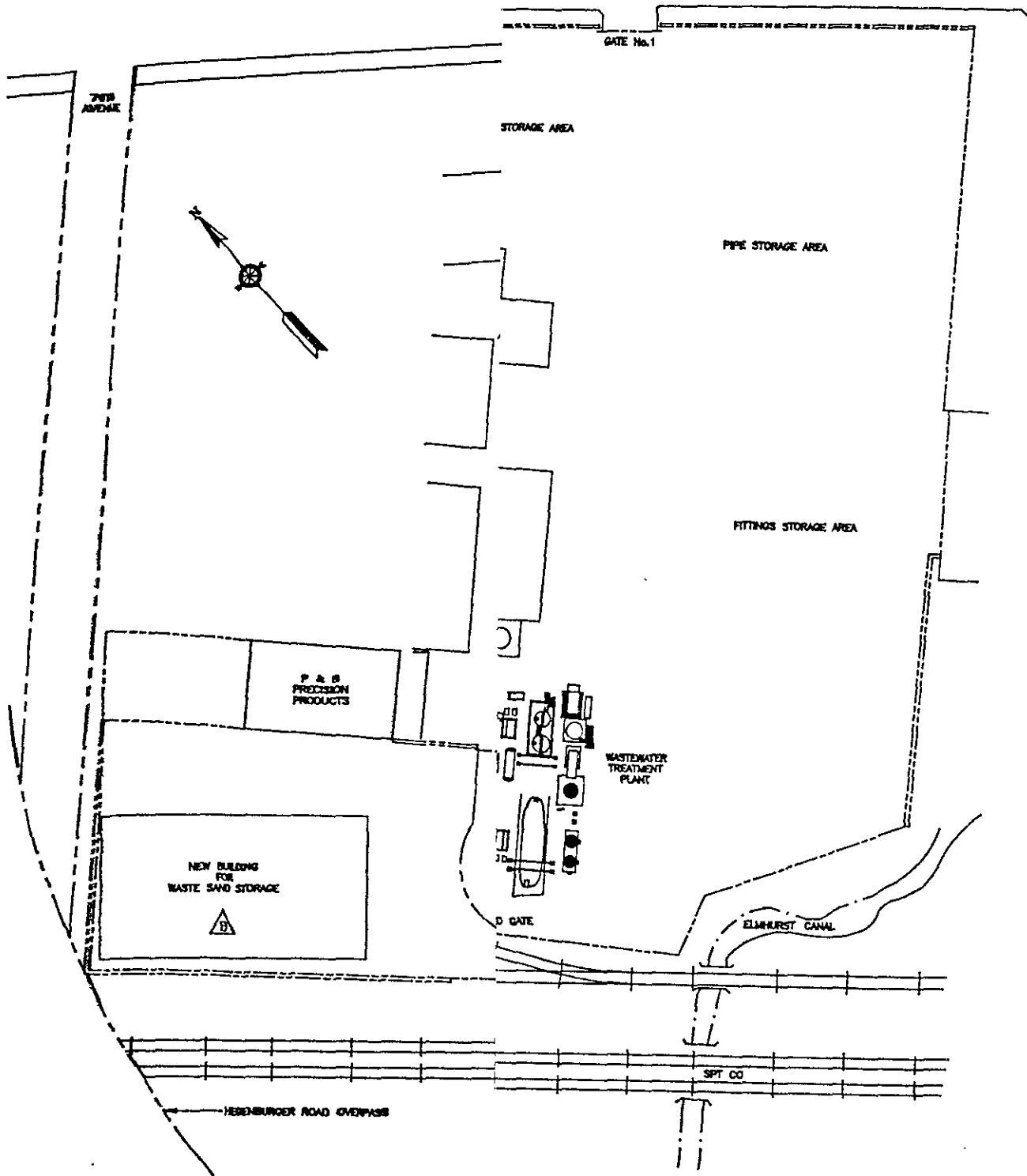


FIGURE 2.0
Tank Layout

| | | | |
|--|--|------|--|
| | | | |
| | | BART | |
| | | | |
| | | | |
| | | | |

| | | | |
|----|---|-------------------------------|----------|
| | A | GENERAL UPGRADE | 11/28/91 |
| DB | B | ADDED DESCRIPTION TO BUILDING | 1/10/92 |
| BS | C | ADDED LIST-DIESEL TANK | 8/9/92 |

D
C
B
A



AMERICAN BRASS & IRON FOUNDRY
 7825 San Leandro Street, Oakland, CA 94621

FOUNDRY PLOT PLAN

| | | | | | |
|-------------|-----------|-----------|----------|--------------|----------|
| DATE | 8/21/88 | DESIGNER | JR | REVISION NO. | |
| NEXT ASSY | USED ON | SCALE | 1" = 40' | OWNER | D-MT-008 |
| APPLICATION | FILE NAME | PLOT PLAN | PLOT: F | SHEET 1 OF 1 | |

8

7

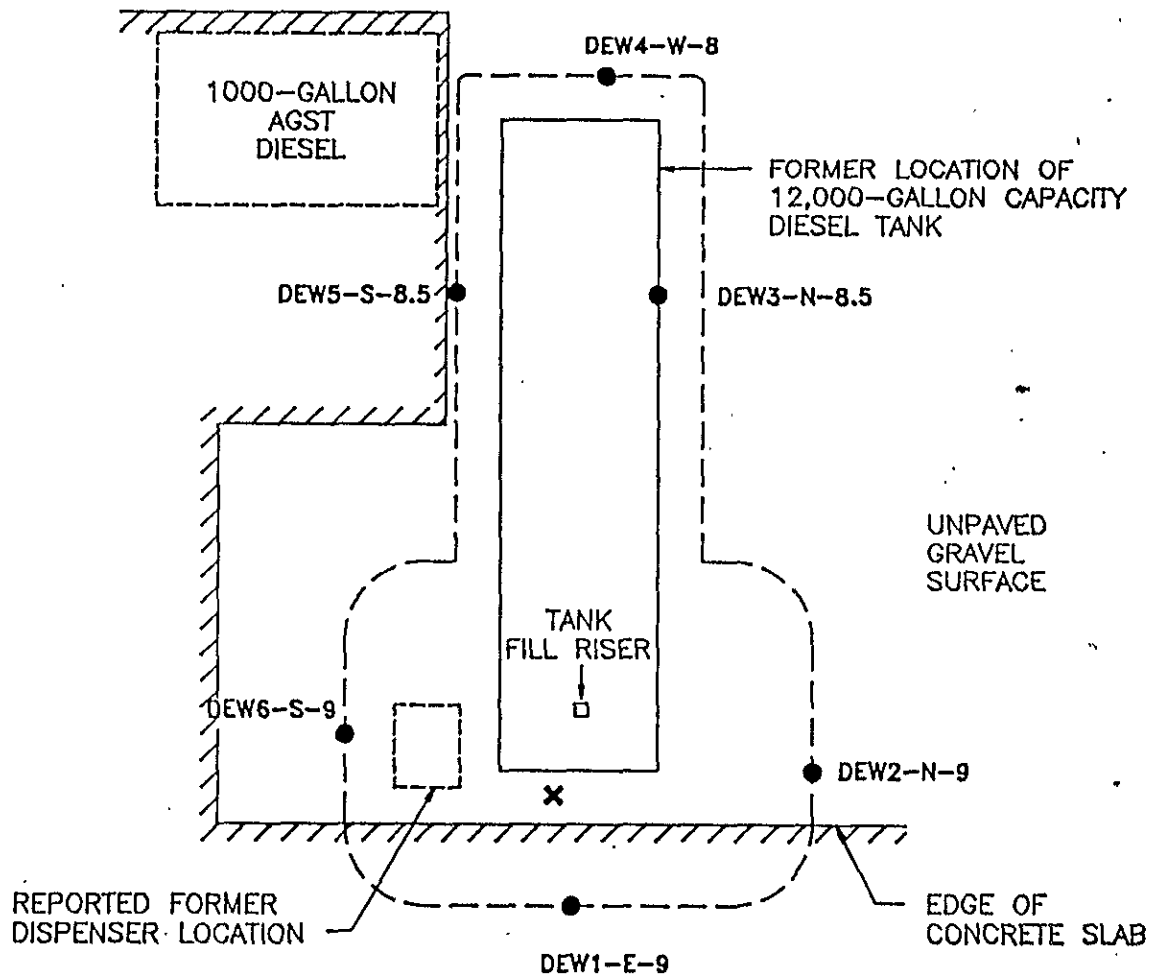
2

1



FIGURE 3.0

Sampling Location and Final Excavation Layout



EXPLANATION

- Soil sample location
(depth in feet is last number)
- ✕ Excavation water sample location

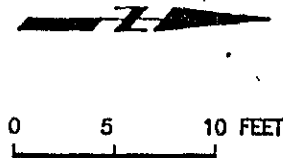


Figure 2 : PLAN SHOWING FORMER TANK AND SOIL SAMPLE LOCATIONS



APPENDIX A

- A. Original UST Closure Plan
- B. Excavation Permit

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

*Darney Union
 Below; Ok 5/28/92 with following
 Needs conditions!
 ① Fill out A+B forms
 ② Fill out reimbursement page
 ③ Submit H+S plan
 ④ Verify w/ Contractor's license
 Board (916) 366-5205 that
 property owner may remove
 tank w/o appropriate
 license*

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

ACCEPTED

has been reviewed and found to be acceptable. It is noted that the requirements of State and local laws. Changes to your plans indicated by the Department of Environmental Health are noted below. Any contractor who is not a permit holder for such work must obtain a permit for construction. All contractors and craftsmen involved with the removal of these tanks must be on the job and must be supervised by a contractor or craftsman involved with the removal. All contractors and craftsmen involved with the removal of these tanks must be on the job and must be supervised by a contractor or craftsman involved with the removal. All contractors and craftsmen involved with the removal of these tanks must be on the job and must be supervised by a contractor or craftsman involved with the removal.

Removal of Tank and Piping
 Symboling
 Final Inspection

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

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE PERMITS

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1. Business Name AMERICAN BRASS AND IRON FOUNDRY
 Business Owner ALLAN BOSCACCI

2. Site Address 7825 SAN LEANDRO STREET
 City OAKLAND Zip 94621 Phone (510) 632-3467

3. Mailing Address 7825 SAN LEANDRO STREET
 City OAKLAND Zip 94621 Phone (510) 632-3467

4. Land Owner ALLAN BOSCACCI
 Address 7825 SAN LEANDRO ST. City, State OAKLAND, CA Zip 94621

5. Generator name under which tank will be manifested AMERICAN BRASS AND IRON FOUNDRY

PA I.D. No. under which tank will be manifested CAD 021774559

6. Contractor SAME AS OWNER
Address _____
City _____ Phone _____
License Type _____ ID# _____

Consultant LEVINE-FRICKE
Address 1900 POWELL STREET, 12th FLOOR
City EMERYVILLE Phone (510) 632-3467

Contact Person for Investigation .
Name JOHN STURMAN Title SENIOR PROJECT
Phone (415) 652-4500 GEOTECHNICAL ENGINEER

Number of tanks being closed under this plan 1
Length of piping being removed under this plan APP. 10 FT.
Total number of tanks at facility 1

State Registered Hazardous Waste Transporters/Facilities (see instructions).
** Underground tanks are hazardous waste and must be handled **
as hazardous waste

a) Product/Residual Sludge/Rinsate Transporter
Name EVERGREEN ENVIRONMENTAL SVCS. EPA I.D. No. CAD 980695761
Hauler License No. _____ License Exp. Date _____
Address 6880 SMITH ROAD
City NEWARK State CA Zip 94560

b) Product/Residual Sludge/Rinsate Disposal Site
Name EVERGREEN ENVIRONMENTAL EPA I.D. No. CAD 980887418
Address 6880 SMITH ROAD
City NEWARK State CA Zip 94560

c) Tank and Piping Transporter

Name H & H SHIP SERVICE EPA I.D. No. CAD 004771168
Hauler License No. 0334 License Exp. Date 1/31/92
Address 220 CHINA BASIN STREET
City SAN FRANCISCO State CA Zip 94107

d) Tank and Piping Disposal Site

Name SAME AS TRANSPORTER EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

11. Experienced Sample Collector

Name JOHN STURMAN
Company LEVINE-FRICKE
Address 1900 POWELL STREET
City EMERYVILLE State CA Zip 94608 Phone (510) 652-4500

12. Laboratory

Name BC ANALYTICAL
Address 1255 POWELL STREET
City EMERYVILLE State CA Zip 94608
State Certification No. 1353

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

If yes, describe. _____

14. Describe methods to be used for rendering tank inert

1) PRODUCT AND SLUDGE REMOVAL

2) RINSING PIPING AND TANKS

3) DRY ICE

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

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

15. Tank History and Sampling Information

| Tank | | Material to be sampled (tank contents, soil, groundwater, etc.) | Location and Depth of Samples |
|-------------|--|---|--|
| Capacity | Use History (see instructions) | | |
| 10,000 GAL. | REGULAR DIESEL STOKEN, INSTALLATION DATE UNKNOWN. PRSENTLY IN SERVICE. | SOIL, GROUNDWATER IF SOIL IS CONTAMINATED OR IF GROUNDWATER IS PRESENT IN THE EXCAVATION. | SOIL-1" INTO NATIVE SOIL WATER - AT STATIC WATER LEVEL IN EXCAVATION. <i>1 sple at each end of tank</i> |

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

| Excavated/Stockpiled Soil | |
|------------------------------------|--|
| Stockpiled Soil Volume (Estimated) | Sampling Plan |
| | <i>Stockpile must be characterized pursuant to disposal method</i> |

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

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

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

| Contaminant Sought | EPA, DHS, or Other Sample Preparation Method Number | EPA, DHS, or Other Analysis Method Number | Method Detection Limit |
|-----------------------------------|---|---|------------------------------------|
| TPH GASOLINE Diesel | EPA 5090- 3550 | EPA METHOD 8015 | 10 PPM (SOIL) 0.050 PPM (WATER) |
| BTXE | SAME | EPA METHOD 8020 | 0.005 PPM(SOIL) 0.005 PPM WATER |

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer SELF INSURED TO \$400,000. TRANSAMERICA
INSURANCE COMPANY THEREAFTER

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 report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (see Instructions)

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

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

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

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

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

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

Signature of Contractor

Name (please type) DAVE ROBINSON

Signature *Dave Robinson*

Date 11/27/91

Signature of Site Owner or Operator

Name (please type) ALLAN BOSCACCI

Signature *Allan Boscacci*

Date _____

Excavation Permit Granted No. 92
Tant Permit

CITY OF OAKLAND

Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks. No. 9585

Oakland, California, JUNE 27, 19 92

PERMISSION IS HEREBY GRANTED TO REMOVE TANKS Gasoline tank and excavate commencing 100 feet inside PROPERTY line

on the west side of San Leandro Street 400 feet west of San Leandro Street Street Avenue

House No. 7825 San Leandro Street Present Storage

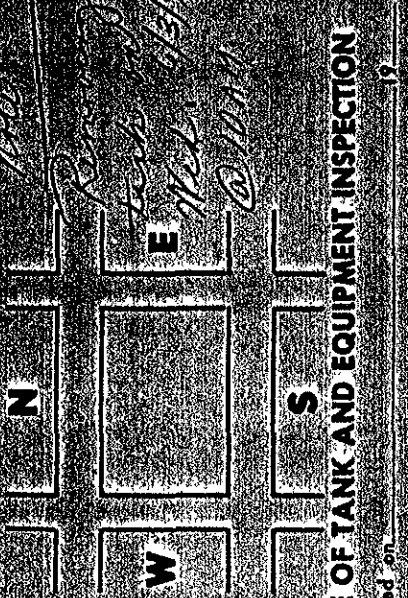
Owner American Brass & Iron Address 7825 San Leandro St. Phone 632-3467

Applicant John Fehringer Address same Phone same

Dimensions of street (sidewalk) surface to be disturbed X Capacity 10,000 Gallons, each

Remarks

This Permit is granted in accordance with existing City Ordinances. Owner hereby agrees to remove tanks on discontinuance of use or when notified by the City Authorities. When installing, removing or repairing tanks, no open flame to be on or near premises.



Inspected and passed on 19

EXCAVATING PERMIT

Issued in accordance with Ord. No. 278 CMS, Sec. 4-2.14

square feet of digging or removal granted

The receipt of \$ special deposit is hereby acknowledged.

GENERAL DEPOSIT.

BUREAU OF PERMITS AND LICENSES.

Inspection Fee Paid \$ 80.00 ck#16258 rec#666159

Received by Johnson

NOTICE

Before Covering Tanks, Above Certificate Must Be Signed.

When ready for inspection notify Fire Prevention Bureau, 273-1851

THIS PERMIT MUST BE LEFT ON THE WORK AS AUTHORITY THEREFOR.

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 HAVE DISTRIBUTED THIS INFORMATION ACCORDING TO THE DISTRIBUTION SHOWN ON THE INSTRUCTION SHEET ON THE BACK PAGE OF THIS FORM. |
| REPORT DATE 05/29/92 | CASE # | SIGNED: <i>[Signature]</i> DATE: |

| | | | |
|---|---|--|---------------------------------|
| REPORTED BY | NAME OF INDIVIDUAL FILING REPORT JOHN FEHRINGER | PHONE (510) 632-3467 | SIGNATURE <i>[Signature]</i> |
| | REPRESENTING <input type="checkbox"/> LOCAL AGENCY <input checked="" type="checkbox"/> OWNER/OPERATOR <input type="checkbox"/> REGIONAL BOARD <input type="checkbox"/> OTHER | COMPANY OR AGENCY NAME AMERICAN BRASS & IRON FOUNDRY | |
| ADDRESS 7825 SAN LEANDRO STREET OAKLAND, CALIFORNIA 94621 | | | |

| | | | |
|-------------------|---|--|--------------------------------|
| RESPONSIBLE PARTY | NAME AMERICAN BRASS & IRON | CONTACT PERSON DAVE ROBINSON | PHONE (510) 632-3467 |
| | ADDRESS 7825 SAN LEANDRO STREET OAKLAND, CALIFORNIA 94621 | | |

| | | | |
|------------------------------------|---|---------------------------------|--------------------------------|
| SITE LOCATION | FACILITY NAME (IF APPLICABLE) AMERICAN BRASS & IRON | OPERATOR CLIFF COOPER | PHONE (510) 632-3467 |
| | ADDRESS 7825 SAN LEANDRO STREET OAKLAND, CALIFORNIA 94621 | | |
| CROSS STREET 77TH AVENUE | | | |

| | | | |
|--------------------------------------|--|--|--------------------------------|
| IMPLEMENTING AGENCIES | LOCAL AGENCY AGENCY NAME ALAMEDA COUNTY HEALTH CARE SVCS. | CONTACT PERSON MR. BARNEY CHAN | PHONE (510) 271-4320 |
| | REGIONAL BOARD CALIF. REGNL. WATER QUAL. CONTROL BRD. - SAN FRAN. REGION | | |
| CONTACT PERSON MR. EDDY SO | | | |
| PHONE (510) 464-1253 | | | |

| | | |
|---------------------|--|--|
| SUBSTANCES INVOLVED | (1) NAME REGULAR GASOLINE, UNLEADED GASOLINE | QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN |
| | (2) NAME DIESEL FUEL, 1-1-1 TRICHLOROETHANE | QUANTITY LOST (GALLONS) <input checked="" type="checkbox"/> UNKNOWN |

| | | | |
|---------------------|---|--|---|
| DISCOVERY/ABATEMENT | DATE DISCOVERED M/D/Y | HOW DISCOVERED <input type="checkbox"/> INVENTORY CONTROL <input type="checkbox"/> SUBSURFACE MONITORING <input type="checkbox"/> NUISANCE CONDITIONS <input type="checkbox"/> TANK TEST <input checked="" type="checkbox"/> TANK REMOVAL (S) <input type="checkbox"/> OTHER | DATE DISCHARGE BEGAN M/D/Y |
| | HAS DISCHARGE BEEN STOPPED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, DATE M/D/Y | | METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY) <input type="checkbox"/> REMOVE CONTENTS <input checked="" type="checkbox"/> CLOSE TANK & REMOVE <input type="checkbox"/> REPAIR PIPING <input type="checkbox"/> REPAIR TANK <input type="checkbox"/> CLOSE TANK & FILL IN PLACE <input type="checkbox"/> CHANGE PROCEDURE <input type="checkbox"/> REPLACE TANK <input type="checkbox"/> OTHER |

| | | |
|--------------|--|--|
| 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 checked="" type="checkbox"/> UNKNOWN <input type="checkbox"/> OTHER |
|--------------|--|--|

| | |
|-----------|--|
| CASE TYPE | CHECK ONE ONLY <input checked="" type="checkbox"/> UNDETERMINED <input type="checkbox"/> SOIL ONLY <input 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 type="checkbox"/> PRELIMINARY SITE ASSESSMENT UNDERWAY <input checked="" type="checkbox"/> POST CLEANUP MONITORING IN PROGRESS <input type="checkbox"/> REMEDIATION PLAN <input type="checkbox"/> CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) <input checked="" type="checkbox"/> CLEANUP UNDERWAY |
|----------------|---|

| | | | |
|-----------------|---|--|------------|
| REMEDIAL ACTION | CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS) | <input type="checkbox"/> EXCAVATE & DISPOSE (ED) <input type="checkbox"/> REMOVE FREE PRODUCT (FP) <input type="checkbox"/> ENHANCED BIO DEGRADATION (IT) <input checked="" type="checkbox"/> EXCAVATE & TREAT (ET) <input type="checkbox"/> PUMP & TREAT GROUNDWATER (GT) <input type="checkbox"/> REPLACE SUPPLY (RS) <input type="checkbox"/> CONTAINMENT BARRIER (CB) <input type="checkbox"/> NO ACTION REQUIRED (NA) <input type="checkbox"/> TREATMENT AT HOOKUP (HU) <input type="checkbox"/> VENT-SOIL (VS) <input type="checkbox"/> VACUUM EXTRACT (VE) <input type="checkbox"/> OTHER (OT) | SLO |
|-----------------|---|--|------------|

THIS UNAUTHORIZED RELEASE FORM IS FOR 4 UNDERGROUND TANKS REMOVED FROM AMERICAN BRASS & IRON FOUNDRY-1-8000 GALLON UNLEADED GASOLINE, 1-550 GALLON REGULAR GASOLINE, 1-8000 GALLON 1-1-1 TRICHLOROETHANE, AND 1-10000 GALLON DIESEL FUEL.

ACKNOWLEDGMENT

Bay Area Air Quality Management District
acknowledges receipt of your Tank
Removal/Contaminated Soil Excavation
Notification Form received on

5/28/92 Bly

REGULATION 8, RULE 40 *N. Lew*
Aeration of Contaminated Soil and
Removal of Underground Storage Tanks

NOTIFICATION FORM

- Removal or Replacement of Tanks
- Excavation of Contaminated Soil

FORMATION

STREET

OWNER NAME AMERICAN BRASS AND IRON FOUNDRY ZIP 94621

SPECIFIC LOCATION OF PROJECT UNOERGROUND DIESEL FUEL TANK-

TANK REMOVAL

SCHEDULED STARTUP DATE 6/3/92

VAPORS REMOVED BY:

- WATER WASH
- VAPOR FREEING (CO²)
- VENTILATION

CONTAMINATED SOIL EXCAVATION

SCHEDULED STARTUP DATE 6/3/92

STOCKPILES WILL BE COVERED? YES NO

ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW):

(MAY REQUIRE PERMIT)

CONTRACTOR INFORMATION

NAME AMERICAN BRASS & IRON CONTACT DAVE ROBINSON
 ADDRESS 7825 SAN LEANDRO ST PHONE (510) 632-3467
 CITY, STATE, ZIP OAKLAND, CALIFORNIA 94621

CONSULTANT INFORMATION (IF APPLICABLE)

NAME LEVINE FRICKE CONTACT JULIE SHARP
 ADDRESS 1900 POWELL ST., 12th FLOOR PHONE (510) 652-4500
 CITY, STATE, ZIP EMERYVILLE, CALIFORNIA 94608

FOR OFFICE USE ONLY

DATE RECEIVED FAX _____

DATE POSTMARKED 5/28/92

CC: INSPECTOR NO. 553

UPDATE: CONTACT NAME _____

AQMD N # _____

BY _____

BY Bly (init.)

DATE 6/1/92

DATE _____

DATA ENTRY 6/1/92

BY Bly (init.)

BY _____ (init.)

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



COMPLETE THIS FORM FOR EACH FACILITY/SITE

MARK ONLY ONE ITEM 1 NEW PERMIT 3 RENEWAL PERMIT 5 CHANGE OF INFORMATION 7 PERMANENTLY CLOSED SITE
 2 INTERIM PERMIT 4 AMENDED PERMIT 6 TEMPORARY SITE CLOSURE

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

| | | | | |
|--|--------------------------------------|---|---|---|
| DBA OR FACILITY NAME AMERICAN BRASS & IRON FOUNDRY | | NAME OF OPERATOR ALLAN BOSCACCI | | |
| ADDRESS 7825 SAN LEANORDO STREET | | NEAREST CROSS STREET HEGENBERGER | PARCEL # (OPTIONAL) | |
| CITY NAME OAKLAND | | STATE CA | ZIP CODE 94621 | SITE PHONE # WITH AREA CODE (510)632-3467 |
| <input checked="" type="checkbox"/> BOX TO INDICATE | <input type="checkbox"/> CORPORATION | <input type="checkbox"/> INDIVIDUAL | <input checked="" type="checkbox"/> PARTNERSHIP | <input type="checkbox"/> LOCAL AGENCY DISTRICTS |
| | | <input type="checkbox"/> COUNTY AGENCY | <input type="checkbox"/> STATE AGENCY | <input type="checkbox"/> FEDERAL AGENCY |
| TYPE OF BUSINESS | | <input type="checkbox"/> 1 GAS STATION | <input type="checkbox"/> 2 DISTRIBUTOR | <input type="checkbox"/> 3 FARM |
| | | <input checked="" type="checkbox"/> 4 PROCESSOR | <input type="checkbox"/> 5 OTHER | <input type="checkbox"/> IF INDIAN RESERVATION OR TRUST LANDS |
| | | # OF TANKS AT SITE 1 | E. P. A. I. D. # (optional) CAD 021774559 | |

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

| | | | |
|---|--|--|--|
| DAYS: NAME (LAST, FIRST) ROBINSON, DAVE | PHONE # WITH AREA CODE (510)489-5312 | DAYS: NAME (LAST, FIRST) FEHRINGER, JOHN | PHONE # WITH AREA CODE (510) |
| NIGHTS: NAME (LAST, FIRST) ROBINSON, DAVE | PHONE # WITH AREA CODE (510)489-5312 | NIGHTS: NAME (LAST, FIRST) FEHRINGER, JOHN | PHONE # WITH AREA CODE (510) |

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

| | | | | |
|--|--|---|---|--|
| NAME ALLAN BOSCACCI | | CARE OF ADDRESS INFORMATION | | |
| MAILING OR STREET ADDRESS 7825 SAN LEANORDO STREET | | <input checked="" type="checkbox"/> box to indicate | <input type="checkbox"/> INDIVIDUAL | <input type="checkbox"/> LOCAL AGENCY |
| CITY NAME OAKLAND C | | <input type="checkbox"/> CORPORATION | <input checked="" type="checkbox"/> PARTNERSHIP | <input type="checkbox"/> STATE AGENCY |
| | | <input type="checkbox"/> COUNTY AGENCY | <input type="checkbox"/> FEDERAL AGENCY | |
| | | STATE CA | ZIP CODE 94621 | PHONE # WITH AREA CODE (510)632-3467 |

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

| | | | | |
|--|--|---|---|--|
| NAME OF OWNER ALLAN BOSCACCI | | CARE OF ADDRESS INFORMATION | | |
| MAILING OR STREET ADDRESS 7825 SAN LEANORDO STREET | | <input checked="" type="checkbox"/> box to indicate | <input type="checkbox"/> INDIVIDUAL | <input type="checkbox"/> LOCAL AGENCY |
| CITY NAME OAKLAND | | <input type="checkbox"/> CORPORATION | <input checked="" type="checkbox"/> PARTNERSHIP | <input type="checkbox"/> STATE AGENCY |
| | | <input type="checkbox"/> COUNTY AGENCY | <input type="checkbox"/> FEDERAL AGENCY | |
| | | STATE CA | ZIP CODE 94621 | PHONE # WITH AREA CODE (510)632-3467 |

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 323-9555 if questions arise.

TY (TK) HQ **44** -

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

| | | | | |
|---|--|--------------------------------------|--------------------------------------|--|
| <input checked="" type="checkbox"/> box to indicate | <input checked="" type="checkbox"/> 1 SELF-INSURED | <input type="checkbox"/> 2 GUARANTEE | <input type="checkbox"/> 3 INSURANCE | <input type="checkbox"/> 4 SURETY BOND |
| | <input type="checkbox"/> 5 LETTER OF CREDIT | <input type="checkbox"/> 6 EXEMPTION | <input type="checkbox"/> OTHER | |

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

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

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

| | | | |
|--|---|------------------------|----------------|
| APPLICANT'S NAME (PRINTED & SIGNATURE) DAVE ROBINSON | APPLICANT'S TITLE ENV. ENG. MANAGER | DATE 5/28/92 | MONTH/DAY/YEAR |
|--|---|------------------------|----------------|

LOCAL AGENCY USE ONLY

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

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



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

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

DBA OR FACILITY NAME WHERE TANK IS INSTALLED:

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

| | |
|--|--|
| A. OWNER'S TANK I.D. # | B. MANUFACTURED BY: <u>N/A</u> |
| C. DATE INSTALLED (MO/DAY/YEAR) <u>1982 (EST.)</u> | D. TANK CAPACITY IN GALLONS: <u>10,000</u> |

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

| | | | | | |
|--|-------------------------------------|---------------------------------------|---|--|---|
| A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL | <input type="checkbox"/> 4 OIL | B. <input type="checkbox"/> 1 PRODUCT | C. <input type="checkbox"/> 1a REGULAR UNLEADED | <input checked="" type="checkbox"/> 3 DIESEL | <input type="checkbox"/> 6 AVIATION GAS |
| <input type="checkbox"/> 2 PETROLEUM | <input type="checkbox"/> 80 EMPTY | <input type="checkbox"/> 2 WASTE | <input type="checkbox"/> 1b PREMIUM UNLEADED | <input type="checkbox"/> 4 GASAHOL | <input type="checkbox"/> 7 METHANOL |
| <input type="checkbox"/> 3 CHEMICAL PRODUCT | <input type="checkbox"/> 95 UNKNOWN | | <input type="checkbox"/> 2 LEADED | <input type="checkbox"/> 5 JET FUEL | <input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D. BELOW) |

D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED _____ C. A. S. #:

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

| | | | |
|---------------------------------|--|---|--|
| A. TYPE OF SYSTEM | <input type="checkbox"/> 1 DOUBLE WALL | <input checked="" type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER | <input type="checkbox"/> 95 UNKNOWN |
| | <input type="checkbox"/> 2 SINGLE WALL | <input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK) | <input type="checkbox"/> 99 OTHER |
| B. TANK MATERIAL (Primary Tank) | <input checked="" type="checkbox"/> 1 BARE STEEL | <input type="checkbox"/> 2 STAINLESS STEEL | <input type="checkbox"/> 3 FIBERGLASS |
| | <input type="checkbox"/> 5 CONCRETE | <input type="checkbox"/> 6 POLYVINYL CHLORIDE | <input type="checkbox"/> 7 ALUMINUM |
| | <input type="checkbox"/> 9 BRONZE | <input type="checkbox"/> 10 GALVANIZED STEEL | <input type="checkbox"/> 95 UNKNOWN |
| C. INTERIOR LINING | <input type="checkbox"/> 1 RUBBER LINED | <input type="checkbox"/> 2 ALKYD LINING | <input type="checkbox"/> 3 EPOXY LINING |
| | <input type="checkbox"/> 5 GLASS LINING | <input type="checkbox"/> 6 UNLINED | <input checked="" type="checkbox"/> 95 UNKNOWN |
| | IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___ | | |
| D. CORROSION PROTECTION | <input type="checkbox"/> 1 POLYETHYLENE WRAP | <input type="checkbox"/> 2 COATING | <input type="checkbox"/> 3 VINYL WRAP |
| | <input type="checkbox"/> 5 CATHODIC PROTECTION | <input type="checkbox"/> 91 NONE | <input checked="" type="checkbox"/> 95 UNKNOWN |
| | | | <input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC |
| | | | <input type="checkbox"/> 99 OTHER |

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

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

V. TANK LEAK DETECTION

| | | | | |
|--|---|---|--|--|
| <input checked="" type="checkbox"/> 1 VISUAL CHECK | <input type="checkbox"/> 2 INVENTORY RECONCILIATION | <input type="checkbox"/> 3 VAPOR MONITORING | <input checked="" type="checkbox"/> 4 AUTOMATIC TANK GAUGING | <input type="checkbox"/> 5 GROUND WATER MONITORING |
| <input checked="" type="checkbox"/> 6 TANK TESTING | <input type="checkbox"/> 7 INTERSTITIAL MONITORING | <input type="checkbox"/> 91 NONE | <input type="checkbox"/> 95 UNKNOWN | <input type="checkbox"/> 99 OTHER |

VI. TANK CLOSURE INFORMATION

| | | |
|---|--|---|
| 1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>5/13/92</u> | 2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>0</u> GALLONS | 3. WAS TANK FILLED WITH INERT MATERIAL? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> |
|---|--|---|

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

| | |
|--|------------------------|
| APPLICANT'S NAME (PRINTED & SIGNATURE) <u>DAVE ROBINSON</u> | DATE <u>5/28/92</u> |
|--|------------------------|

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

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

AMERICAN BRASS & IRON FOUNDRY

SITE HEALTH AND SAFETY PLAN

MAY 1, 1992

SITE HEALTH AND SAFETY PLAN FOR (company name)

AMERICAN BRASS AND IRON FOUNDRY

SITE 10 000 GAL DIESEL TANK PROJECT NUMBER —

ORIGINAL SITE HEALTH & SAFETY PLAN: Yes (X) No () REVISION # —

PLAN PREPARED BY JOHN FEHRINGER DATE 5/20/92

PLAN APPROVED BY _____ DATE _____

1. KEY PERSONNEL AND RESPONSIBILITIES

PROJECT MANAGER DAVE ROBINSON PHONE # (510) 632-3467

HEALTH AND SAFETY RESPONSIBILITIES ASSESS POTENTIAL

HEALTH AND SAFETY HAZARDS AT SITE, MODIFY HSP IF
NECESSARY, REQUIRE MEDICAL ATTENTION, IF NECESSARY,
DENY UNAUTHORIZED ENTRY

SITE HEALTH AND SAFETY OFFICER JOHN FEHRINGER

PHONE # (510) 632-3467

HEALTH AND SAFETY RESPONSIBILITIES INFORM SITE WORKERS OF
EXPECTED HAZARDS, ORDER SITE EVACUATION OR SHUT
DOWN, IF NECESSARY, MODIFY HSP, IF NECESSARY, REQUIRE
MEDICAL ATTENTION, IF NECESSARY, DENY UNAUTHORIZED ENTRY

FIELD TEAM MEMBERS JULIE SHARP, EWALD SCHMIDT,

VICTOR SEVICIA, EDUARDO GONZALEZ

AGENCIES REPRESENTED (fire department, health services, etc.)

ALAMEDA COUNTY HEALTH CARE SERVICES

CITY OF OAKLAND FIRE DEPARTMENT

2. JOB HAZARD ANALYSIS

CHEMICAL HAZARDS (INCLUDING HAZARDOUS MATERIALS PRESENT ON SITE) POSSIBLE SOIL CONTAMINATION WITH

DIESEL - BENZENE, TOLUENE, ETHYLBENZENE, XYLENE

CHARACTERISTICS OF MATERIALS LISTED ABOVE

MATERIAL #1 DIESEL FUEL

CORROSIVE () IGNITABLE (X) TOXIC (X)
REACTIVE () VOLATILE (X) RADIOACTIVE ()
BIOLOGICAL AGENT () GASOLINE VAPOR ()
EXPOSURE ROUTES: INHALATION (X) INGESTION (X)
EYE CONTACT (X) SKIN AND MUCOUS MEMBRANE (X)

MATERIAL #2 BENZENE

CORROSIVE () IGNITABLE () TOXIC (X)
REACTIVE () VOLATILE (X) RADIOACTIVE ()
BIOLOGICAL AGENT () GASOLINE VAPOR ()
EXPOSURE ROUTES: INHALATION (X) INGESTION ()
EYE CONTACT () SKIN AND MUCOUS MEMBRANE (X)

MATERIAL #3 TOLUENE

CORROSIVE () IGNITABLE () TOXIC (X)
 REACTIVE () VOLATILE (X) RADIOACTIVE ()
 BIOLOGICAL AGENT () GASOLINE VAPOR ()
 EXPOSURE ROUTES: INHALATION (X) INGESTION ()
 EYE CONTACT () SKIN AND MUCOUS MEMBRANE (X)

MATERIAL #4 ETHYLBENZENE

CORROSIVE () IGNITABLE () TOXIC (X)
 REACTIVE () VOLATILE (X) RADIOACTIVE ()
 BIOLOGICAL AGENT () GASOLINE VAPOR ()
 EXPOSURE ROUTES: INHALATION (X) INGESTION ()
 EYE CONTACT () SKIN AND MUCOUS MEMBRANE ()

MATERIAL #5 XYLENE

CORROSIVE () IGNITABLE () TOXIC (X)
 REACTIVE () VOLATILE (X) RADIOACTIVE ()
 BIOLOGICAL AGENT () GASOLINE VAPOR (X)
 EXPOSURE ROUTES: INHALATION (X) INGESTION ()
 EYE CONTACT (X) SKIN AND MUCOUS MEMBRANE ()

PHYSICAL AND OTHER HAZARDS _____

HAZARDS OF SPECIFIC TASKS (e. g. cave-ins, explosions, traffic, back injuries)

TASK #1 EXCAVATE SOIL

HAZARDS CAVE-IN, INJURY TO SITE WORKERS,

PRECAUTIONARY MEASURES NOBODY ALLOWED IN PIT, MACHINERY A SAFE DISTANCE FROM PIT, CAUTION OPERATING MACHINERY AROUND SITE WORKERS,

TASK #2 TRANSFERRING EXCAVATED SOIL

HAZARDS COLLISION WITH SITE WORKERS, COLLISION WITH SURROUNDING TRAFFIC

PRECAUTIONARY MEASURES OPERATE MACHINERY SAFELY, SITE WELL-MARKED WITH CAUTION TAPE, ETC.

TASK #3 BACKFILLING

HAZARDS SAME AS TASKS 1 AND 2

PRECAUTIONARY MEASURES SAME AS TASKS 1 AND 2

TASK #4 _____

HAZARDS _____

PRECAUTIONARY MEASURES _____

TASK #5 _____

HAZARDS _____

PRECAUTIONARY MEASURES _____

3. WORK REQUIREMENTS

MONITORING PLAN (PID for VOC's, CGA, etc.)

PHOTOIONIZATION DETECTOR TO DETECT AMBIENT
AIR CONCENTRATIONS OF VOLATILE ORGANIC
COMPOUNDS, COMBUSTIBLE GAS ANALYZER TO
DETERMINE CONCENTRATION OF COMBUSTIBLE GASES
AND OXYGEN IN TANK PRIOR TO REMOVAL

PERSONAL PROTECTIVE EQUIPMENT (hard hats, safety glasses, rubber gloves, respirators for organic vapors, steel toed safety shoes, hearing protection, polyethylene-coated coveralls, etc.)

HARD HATS, SAFETY GLASSES, RESPIRATORS FOR
ORGANIC VAPORS, RUBBER GLOVES, HEARING
PROTECTION AS NEEDED

ACTION LEVELS (VOC,s, benzene, LEL, etc.)

IF AMBIENT AIR CONCENTRATION OF VOC'S IN
BREATHING ZONE > 25PPM, WORK SHOULD TEMP-
ORARILY STOP UNTIL VOC'S < 25PPM, COMBUSTIBLE
GASES AS PER FIRE DEPARTMENT REQUIREMENTS

PHYSICAL HAZARDS

FIRE AND EXPLOSION (fire extinguishers, no smoking signs, etc.)

16 POUND, 20 BCG RATED FIRE EXTINGUISHER
ON SITE, NO SMOKING SIGNS

NOISE (e. g. earplugs around jack hammering, heavy machinery, etc.)

EARPLUGS AROUND JACK HAMMERING

OTHER

EYE WASH IN CORE ROOM

WORK AREA DEFINITION

METHOD OF DESIGNATION (fencing, caution tape, signs, security measures, etc.)

CAUTION TAPE, PORTABLE FENCES AROUND
PIT, PLANT SECURITY

ENTRY PROCEDURES (requirements for visitors, including entry permission, safety equipment)

DESIGNATED TEAM MEMBER ON SITE AT
ALL TIMES, PERMISSION REQUIRED FOR
VISITOR ENTRY

DECONTAMINATION PROCEDURES (PPE, tools, equipment)

CONTAMINATED PERSONAL PROTECTIVE EQUIPMENT,
TOOLS, EQUIPMENT SHOULD BE CLEANED OR
DISPOSED OF ACCORDING TO DISPOSAL LAWS.

4. EMERGENCY PROCEDURES

GENERAL INJURIES

- Step 1: Administer first aid, if appropriate.
- Step 2: Obtain outside emergency assistance, if appropriate.
- Step 3: Notify SSO and Project Manager.

TREATMENTS

FIRE: Use fire extinguisher. Activate available alarms if necessary. Call fire department if necessary.

SKIN EXPOSURE: Skin exposure to many toxic materials can often be minimized by washing the affected area with soap and water. Call an ambulance if necessary.

EYE EXPOSURE: Flush eyes with water. Call an ambulance if necessary.

CHEMICAL SPILL: Call fire department and National Response Center for Toxic Chemical and Oil Spills.

INHALATION: Move victim to fresh air. Call ambulance if necessary.

SWALLOWING: Call ambulance service if necessary. Call Poison Control Center for information.

EMERGENCY PHONE NUMBERS

| | |
|---|----------------|
| Ambulance----- | 911 |
| Fire Department----- | 911 |
| Police Department----- | 911 |
| Hospital (name, address, emergency and other phone) | |
| <hr/> | |
| <u>HUMANA HOSPITAL (510) 357-8450 (EMERGENCY)</u> | |
| <u>13855 EAST 14th STREET (510) 357-6500</u> | |
| <u>SAN LEANDRO, CA 94587</u> | |
| National Response Center----- | (800) 424-8802 |
| CHEMTREC----- | (800) 424-9300 |
| Poison Control Center----- | (800) 523-2222 |
| California Office of Emergency Services | (800) 852-7550 |
| Regional Water Quality Control Board | (805) 549-3147 |

5. TRAINING PROGRAM

Prior to commencing work activities, a safety briefing will be held to discuss the contents of this health and safety plan as well as any other safety items.

Training also includes appropriate requirements indicated by 29 CFR 1910.120 (e).

6. MEDICAL MONITORING

Appropriate medical monitoring is required as designated by 29 CFR 1910.120 (f).



APPENDIX B

- A. Fire Inspector Notes
- B. Levine*Fricke Field Notes
- C. Disposal Manifest

CITY OF OAKLAND
REPORT OF FIRE INSPECTION

ENGINE CO.

ADDRESS 7825 San Leandro

E 29

NAME _____

GENERAL INSPECTION

PERMIT OTHER

HAZARD NOTED

HAZARD ABATED

NOTICE LEFT LETTER

1st NOTICE

2nd NOTICE

FINAL

| DATE | VIOLATION | O.F.C. | CONTACTED |
|--------|---------------------------------------|--------|-----------|
| 6-3-92 | Wetness Tank Removal | | |
| | 10,000 gal. 101.2% O ₂ 18% | | |
| | Hauled by H&H \$ 300.93 | | |
| | No. Holes noted in Tank. | | |

A REINSPECTION WILL BE MADE WITHIN _____ DAYS.

338-5 (Rev. 5-77)

FIRE PREVENTION BUREAU — PHONE 273-3851

INSPECTOR Brannell #208

**LEVINE-FRICKE**

CONSULTING ENGINEERS AND HYDROGEOLOGISTS

DRAFT

September 25, 1991

LF 2408

Mr. Barney Chan
Hazardous Materials Specialist
Department of Environmental Health
Alameda County Health Care Services
80 Swan Way, Room 200
Oakland, California 94621

Subject: Filing of Unauthorized Storage Tank Release Report
Underground Tank Closure
American Brass & Iron Facility
7825 San Leandro Avenue
Oakland, California 94621

Dear Barney:

This letter documents our recent telephone conversation concerning filing of an Unauthorized Storage Tank Release Report for the subject site.

During our conversation on September 5, 1991, you indicated that American Brass & Iron (AB&I) does not need to file a report at this time, even though some gasoline-affected soil and ground water were encountered when the former 8,000-gallon gasoline storage tank was removed from the site. You stated that AB&I should file a report upon completion of its current underground tank closure project, which includes removal of four underground tanks. As I stated in our conversation, AB&I intends to complete this project by November 1991.

Because the Alameda County Department of Environmental Health is the lead implementing agency for the State of California's Underground Storage Tank Program, we are recommending to AB&I that they report the tank leak in accordance with our agreement, as stated above.

If you have any questions, please contact me. Thank you for your cooperation in working with us on this matter.

Sincerely,

John Sturman
Senior Project Geotechnical Engineer

cc: Mr. John Fehringer, American Brass & Iron 1900 Powell Street 12th Floor
Emeryville California 94608
(415) 652-4500
FAX (415) 652-2246

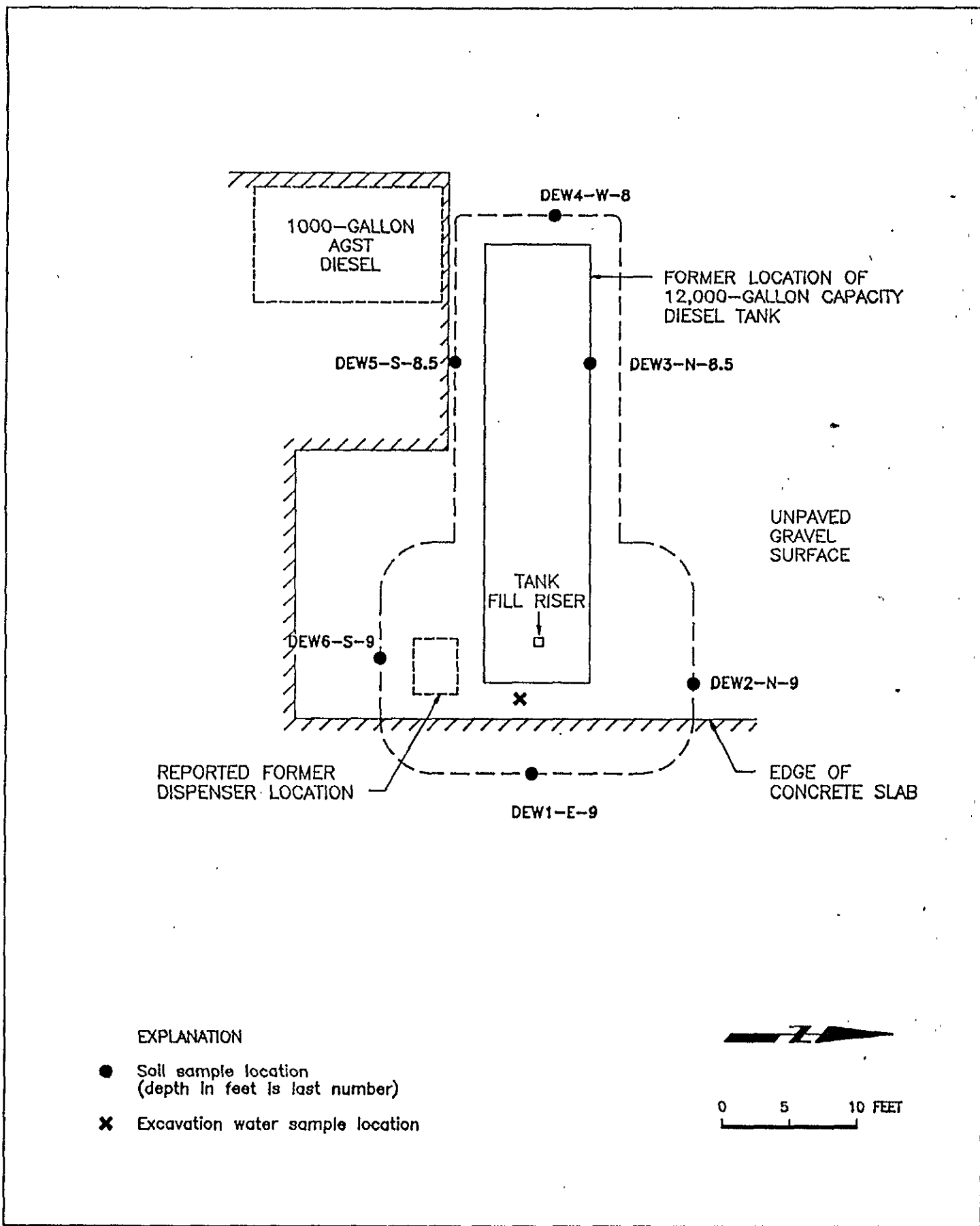


Figure 2 : PLAN SHOWING FORMER TANK AND SOIL SAMPLE LOCATIONS

JOS

LEVINE•FRICKE

PAGE 1 OF 4

DATE 6-3-92

DAILY CONSTRUCTION REPORT

| | | | | | | | |
|-----|---|---|---|---|----|---|---|
| | S | M | T | W | TH | F | S |
| DAY | | | | X | | | |

PROJECT: 2408.01

WEATHER: Sunny

OWNER: ABI

SITE CONDITIONS:

CONTRACTOR: -ABI

TEMPERATURE: 70°F

- Copy pictures for Dave - Dave will give me copy of county & H&H forms on Fri

VISITORS: Fire Dept Brande, - Marlon - Oakland FD. Inspector
County - Barney Chan

WORK FORCE

| | SUPERVISORS | WORKERS | REMARKS |
|--|-------------|---------|---------|
| | | | |
| | | | |
| | | | |
| | | | |

EQUIPMENT

| | |
|--|------------|
| Case 580E backhoe | H&H Lowboy |
| Cranp - Bucyrus Erie (magnet also for scrap) | |
| Deere 344E Loader | |

ACTIVITIES 8:30 Arrived on-site; tank is uncovered - water in pit looks petroleum-affected

ABI purging water from pit - putting in 55-gallon drums (3)
Piping all removed

Tank recently (last year) pressure tested

10:00 Stockpile of recently excavated material has 15-50 ppm on PID
- Dispenser reportedly removed prior to L-F presence

11:20 Fire & County on site - Lifting tank.

Oily product (black) in East End of tank visible in G-W

No signs of corrosion/pitting on tank (inc. underside) - in good condition; proceeded to load onto H&H low boy trailer

11:35 Purging G-W from tank excavation into barrels for their treatment system

- Began over excavation in E area; soil is black/green with PID 20-40 ppm

- Dave requested to take soil & g-w samples on Monday - after ABI

has had time to over excavate affected soil. Cocnty said OK. Stockpile

will be sampled then too. I told Dave that it might be good to either

use a drill rig or grab some samples now - because they will not need to clean up site to M.D. and that a Monitoring Well is likely anyway, also

COPIES: that any soils he excavates he will need to dispose of. Dave said he will try

bio remediation of soils and that he wants to get to where it looks clean before

SIGNED: _____

100008

LEVINE•FRICKE

DAILY CONSTRUCTION REPORT

PAGE 2 OF 4

DATE 6-3-92

S M T W TH F S

DAY

| | | | | | | |
|--|--|--|---|--|--|--|
| | | | X | | | |
|--|--|--|---|--|--|--|

PROJECT: 2408.01

WEATHER: _____

OWNER: _____

SITE CONDITIONS: _____

CONTRACTOR: _____

TEMPERATURE: _____

VISITORS

| |
|--|
| |
| |

WORK FORCE

| | SUPERVISORS | WORKERS | REMARKS |
|--|-------------|---------|---------|
| | | | |
| | | | |
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| | | | |

EQUIPMENT

| |
|--|
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| |

ACTIVITIES

sampling (6-W + Soil). County + Dave + I do not know what site clean up is for Diesel. I also mentioned that the green backfill sand could be a native color - but may also be representative of petroleum.

Pit will be over excavated in the N + S directions in East End. Soil can not be further excavated in E direction. There is also visible spots of green sand in Western end of pit - I will have them dug up before I leave Site.

∴ Eastern end has black/green discolored soil, West end has slight green sand beneath tank - Eastern end has black product (oily) and Western end has slight sheen.

2pm - Scooped in West wall of excavation - no PID + smells/looks clean (with organic sites) - also scooped green backfill sand in bottom of Western excavation - see slight (0-4ppm) PID but smell of diesel. I recommended that Dave excavate the green sand now because if ^{they} will be monitoring no sense in leaving it (as he intended to do) or trying to over excavate walls. Dave agreed.

Pl. to return to Site (w/ County also) on Friday. Dave or John will leave

COPIES:

me a message on frame tomorrow

SIGNED:

2:05

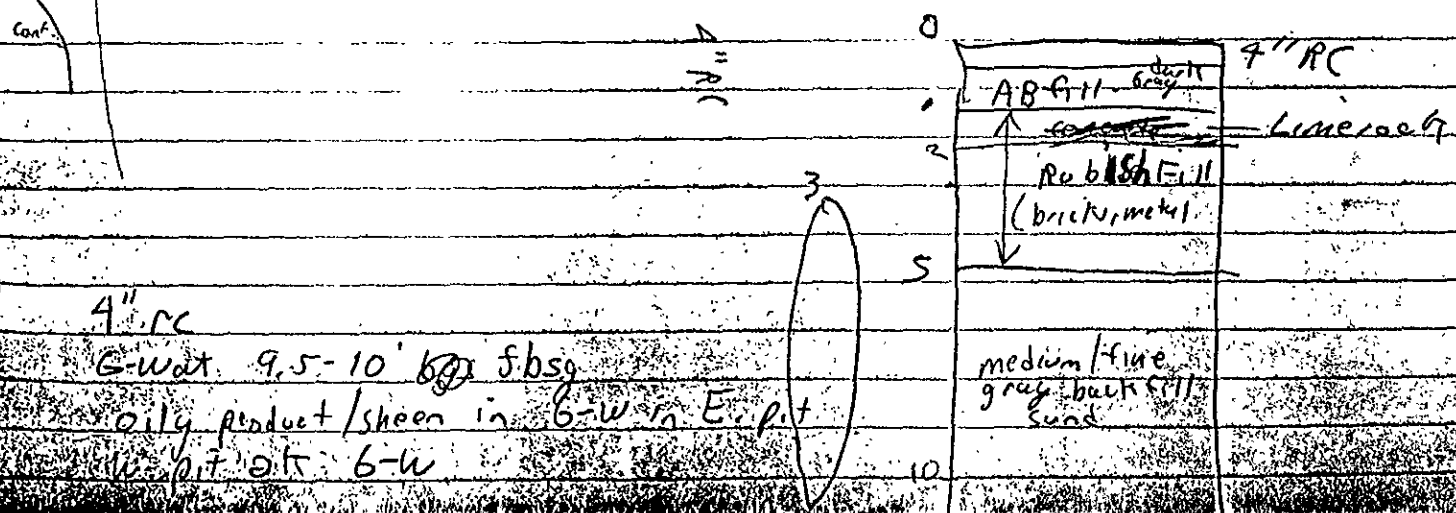
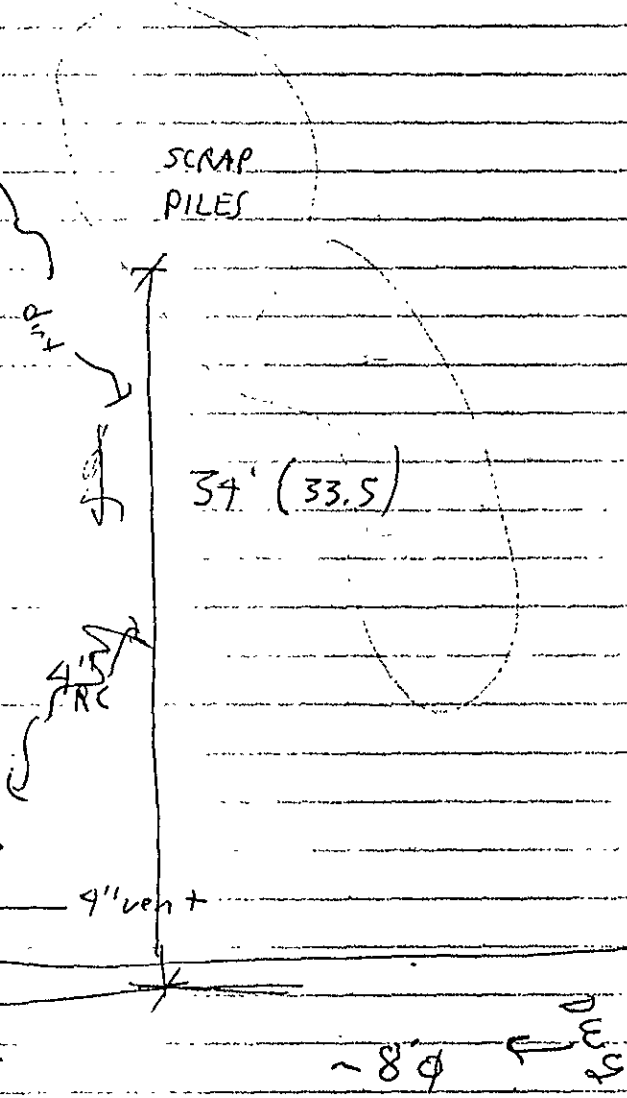
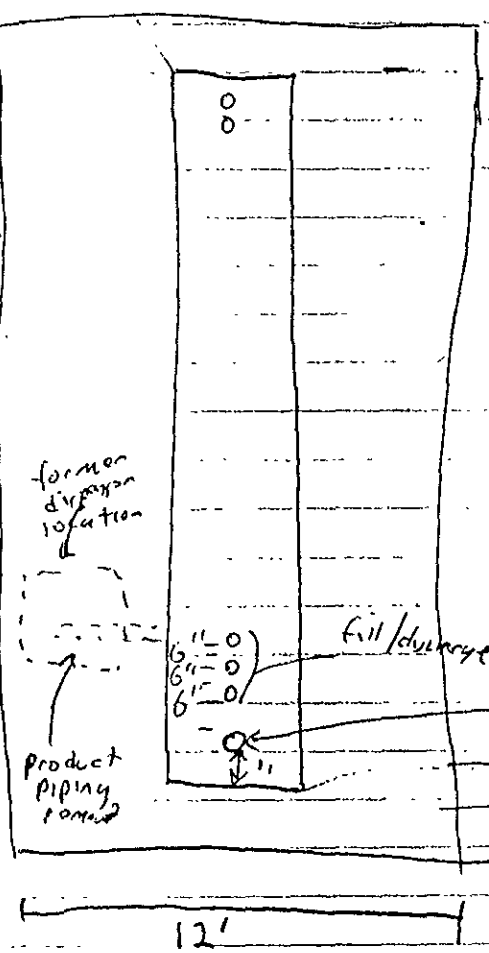
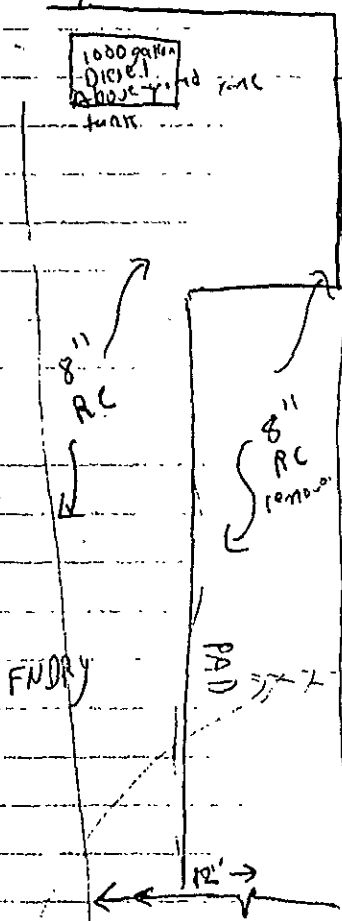
left site tank gone.

Sampling FPI.

140358

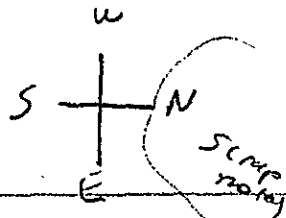
DISPENSER
STOCK PILE

oil / paper covered steel
(paper not intact)

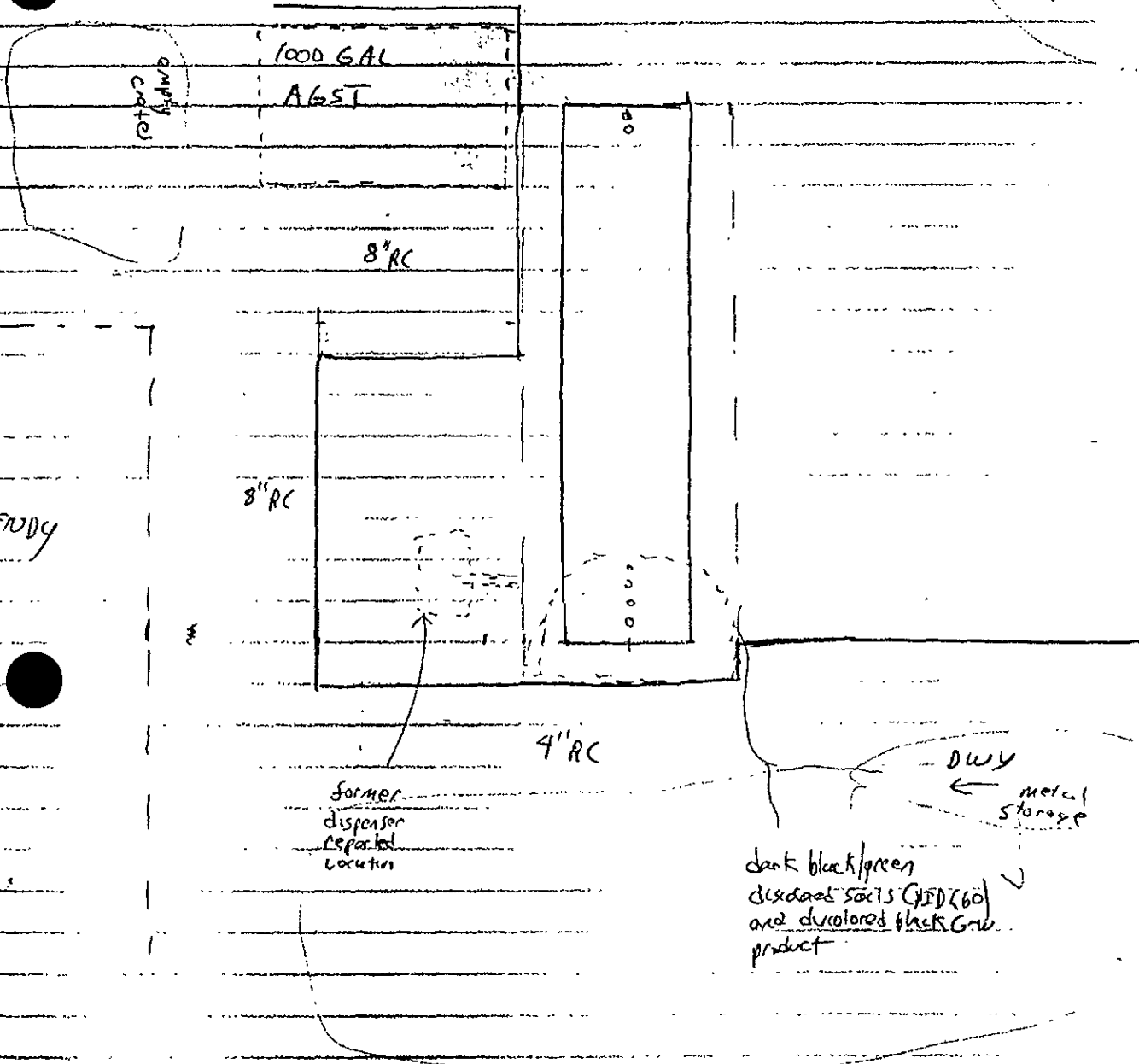


2408.01
MJD
6-3-92

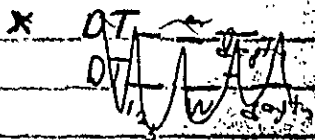
L.F.



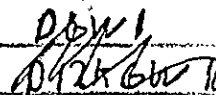
4/4
1" = 10'
SCALE



SOIL SAMPLES



H₂O SAMPLES



DGW 1

DEWI N - depth

3 E

JOS

PAGE 1 OF 5
DATE 6-5-92

LEVINE • FRICKE DAILY CONSTRUCTION REPORT

S M T W TH F S
DAY [] [] [] [] [] [X] []

PROJECT: 2408.01
OWNER: ABI
CONTRACTOR: ABI

WEATHER: Sunny
SITE CONDITIONS: Sample/backfill
TEMPERATURE: 72°F

VISITORS

| |
|--|
| |
| |

WORK FORCE

| | SUPERVISORS | WORKERS | REMARKS |
|--|-------------|---------|---------|
| | | | |
| | | | |
| | | | |
| | | | |

EQUIPMENT

| | |
|---------|--|
| Backhoe | |
| | |
| | |

ACTIVITIES 7:25 Arrived on-site. John Ferrigno + I are waiting for Dave to check

status, Dave said county does not need to be present, Grabbed water sample (8:30 finished) grab 6 to sampling - V at 10.0 ft fbg at time of sampling; visible production excavation water - but no black discoloration

WALL SAMPLES

| | |
|---|--------|
| 1 at 9' in blk/silty clay - NO PID but slight diesel odor | Method |
| 2 at 9' " " - NO PID NO odor | BH |
| 3 at 8.75' " " - NO PID, NO odor | BH |
| 4 at 8 fbg " " - NO PID or odor | BH |
| 5 at 8.5 fbg " " " " " " | BH |
| 6 at 9/8.5 fbg " " " " " " | BH |



9:45 finished sampling; ABI began backfilling (BH - Backhoe HA - Hand Auger)

~200cy stockpiled on concrete w/roof - to be analyzed (if used possibly) later

TANK D

- will send signed copy of manifest
- Dave will write report - will send to JOS for peer review

COPIES: - we put data in tables
- copy old copy also

SIGNED: MAA

Analyze: 1, 2, 4, 6 Both
Dial only * 11m diaida tank - last price 1/11/92 (Dave on 1.1)

DAILY CONSTRUCTION REPORT

PAGE 2 OF 5

DATE 6-5-92

| | | | | | | |
|---|---|---|---|----|---|---|
| S | M | T | W | TH | F | S |
| | | | | | X | |

PROJECT: 2408.01

WEATHER: _____

OWNER: _____

SITE CONDITIONS: _____

CONTRACTOR: _____

TEMPERATURE: _____

VISITORS

| |
|--|
| |
| |

WORK FORCE

| | SUPERVISORS | WORKERS | REMARKS |
|--|-------------|---------|---------|
| | | | |
| | | | |
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| | | | |

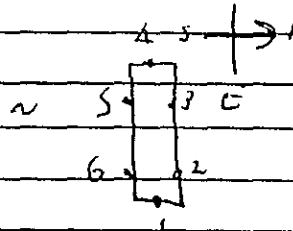
EQUIPMENT

| |
|--|
| |
| |
| |

ACTIVITIES - Back filled w/ stockpiled soil from before (UTK samples) - Dave knew results were not ND but he said results were good enough.

All samples collected in Native drk gray silty clay

| OLD ID | NEW ID | REMARKS |
|--------|-------------------------|----------------------------------|
| 1 | DEW1-E-9 (TPH0/BTK) | ← test, exc. well wall depth bsg |
| 2 | DEW2-N-9 (TPH0/BTK) | |
| 3 | DEW3-N-8.5 (TPH0) | |
| 4 | DEW4-W-8 (TPH0/BTK) | |
| 5 | DEW5-S-8.5 (TPH0) | |
| 6 | DEW6-S-9 (TPH0/BTK) | |
| G-W | w D-Gravdwtr (TPH0/BTK) | |



orig G-W at 9.5 - 10' in E end (bsg)
at 9' in W end

TODAY 10' in E end
9' in W end

COPIES:

11:45 took samples to Quantity

SIGNED: _____

MAD

3/5

May 1951

0 100 200 feet

SPT Co. Tracks

Elmhurst Canal

12x
Storage
15-50pm 111

77TH AVE.

Shipping Area

Pipe Fitting

Herman Building

Boo House

Ditch

Sump

Foundry

Core Room

Rotor Case

8K TCA tank

Stock Room
Copy of EP Plan

Employee Parking

Overhead Power Line

8K in wall tank

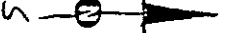
gas line

Compressed Gas Storage

12K vlt

SAN LEANDRO ST.

550-9 gas line



0 100 200

4/5 3/4
6/3/92

DISPENSER
STOCK PILE

oil / paper upon covered steel

(paper not intact)

1000 gal tank
Diesel
Product

SCRAP PILES

34' (33.5)

REVISED

FUDGE

PAD

former dispenser location

fill/drainage

Product piping removed

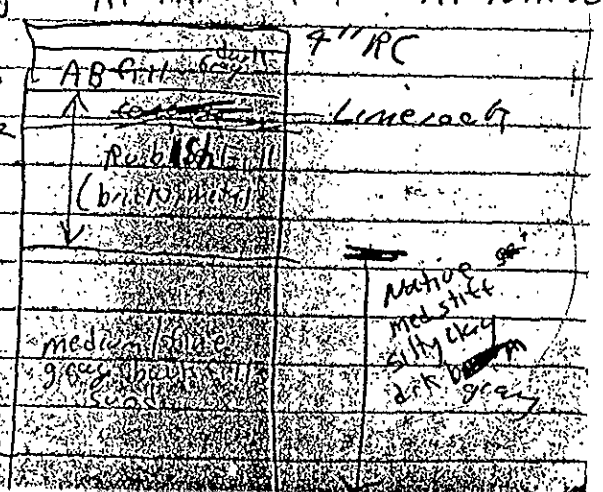
22'

12'

8" ST

AT TANK

AT NATIVE



4" RC
6-w-9.5-10.60
only product / steel in 6-w in E. pit
10' pit 6-w

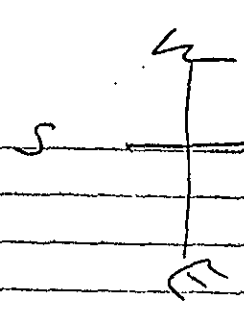
4" RC

4" RC



5

10



Please print or type. Form designed for use on elite (12-pitch typewriter).

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-852-7550

| | | | | | | | | | | |
|--|--|--|---|--|--|--|--|---|---|---------------------|
| UNIFORM HAZARDOUS WASTE MANIFEST | | 1. Generator's US EPA ID No. CA 10 10 12 11 17 17 14 15 15 19 | | Manifest Document No. 0 1 0 1 0 1 0 1 3 | | 2. Page 1 of 1 | | Information in the shaded areas is not required by Federal law. | | |
| 3. Generator's Name and Mailing Address AMERICAN BRASS & IRON FOUNDRY 7825 San Leandro Street, Oakland, CA. 94621 | | | | | | A. State Manifest Document Number 91510000 | | | | |
| 4. Generator's Phone (415) 632-3467 | | | | | | B. State Generator's ID | | | | |
| 5. Transporter 1 Company Name H & H Ship Service Company | | | 6. US EPA ID Number CA 10 10 10 14 17 17 11 11 16 18 | | | C. State Transporter's ID 300033 | | | D. Transporter's Phone (415) 543-4835 | |
| 7. Transporter 2 Company Name | | | | | | 8. US EPA ID Number | | | | |
| 9. Designated Facility Name and Site Address H & H Ship Service Company 220 China Basin Street San Francisco, CA 94107 | | | | | | 10. US EPA ID Number CA 10 10 10 14 17 17 11 11 16 18 | | | | |
| 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) | | | | | | 12. Containers | | 13. Total | | 14. Unit |
| a. RESIDUE DIESEL TANK NON-RCRA HAZARDOUS WASTE SOLID | | | | | | No. Type | | Quantity | | W/Vol |
| | | | | | | 0 0 1 T P | | 1 0 0 0 0 P | | State EPA/Other |
| b. RESIDUE ASSOCIATED PIPING NON-RCRA HAZARDOUS WASTE SOLID | | | | | | 0 0 1 B I A | | 0 1 0 0 5 0 P | | State EPA/Other |
| c. | | | | | | | | | | State EPA/Other |
| d. | | | | | | | | | | State EPA/Other |
| J. Additional Descriptions for Materials Listed Above EMPTY 10,000 gallon tank last containing diesel. Tank inerted with dry ice for transport. PROFILE #A1045 | | | | | | K. Handling Codes for Wastes Listed Above | | | | |
| | | | | | | a. 01 | | b. | | c. |
| 15. Special Handling Instructions and Additional Information JOB #10742 24 Hr. Emergency Contact: H & H #(415) 543-4835 APPROPRIATE PROTECTIVE CLOTHING AND RESPIRATOR | | | | | | | | | | |
| 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. | | | | | | | | | | |
| Printed/Typed Name JOHN P. FEHRINGER | | | Signature <i>John P. Fehring</i> | | | Month 06 | | Day 10 | | Year 1992 |
| 17. Transporter 1 Acknowledgement of Receipt of Materials | | | | | | Printed/Typed Name NORMAN L. BERG | | Signature <i>Norman L. Berg</i> | | Month 06 |
| 18. Transporter 2 Acknowledgement of Receipt of Materials | | | | | | Printed/Typed Name | | Signature | | Month 06 |
| 19. Discrepancy Indication Space LINE 13 SHOULD READ 12,000 | | | | | | | | | | |
| 20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. | | | | | | Printed/Typed Name Cleveland Valley | | Signature <i>Cleveland Valley</i> | | Month 06 |
| | | | | | | | | | | Day 10 |
| | | | | | | | | | | Year 1992 |

DO NOT WRITE BELOW THIS LINE.



Abel Carbonic

| | | | |
|-----------------|--------------------|--------|-----------------|
| CUSTOMER NUMBER | PURCHASE ORDER NO. | DATE | DELIVERY NUMBER |
| | | 6/3/92 | 1-210293 |

BY ACCEPTING THIS ORDER, CUSTOMER AGREES TO ALL OF THE TERMS AND CONDITIONS SET FORTH HEREIN, INCLUDING THOSE PRINTED ON THE REVERSE SIDE.

| | |
|---------------------|--------------------|
| NAME | ACCEPTED BY: |
| AMERICAN BRASS IRON | <i>[Signature]</i> |
| SHIPPED TO | |

| 20 SOLID | 21 HALF | 22 SLICES | 23 ROCKS | 24 AIRPORT | 29 WET ICE | |
|-------------|-------------|--------------|-------------|---------------|---------------|-----|
| UNIT | DESCRIPTION | | | CODE | POUNDS | |
| 4 | DRY ICE | ORM-A | UN1845 | 23 | 200 | |
| 1 | | | | 23 | 50 | |
| | | | | | | 250 |

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Division Inspection Form

Site ID# _____ Site Name AB+I Today's Date 6/3/92
 Site Address 7825 San Leandro St EPA ID# _____
 City _____ Zip 94621 Phone _____

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

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

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

I.A GENERATOR (Title 22)

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

Comments:

11 tanks removal of 12 K steel drums full
 Maxon bundle of PD report
 12/20 CEL Og-1890
 1 Technician & 1 D Polymer of AB+I plant
 Mike Still at lower level. Spill
 Tank is too damaged w/ considerable rusting
 perforated
 Tank has no exposed holes that disengage
 or irreversibly discolored. It is the E-end
 The pet gas oil container the water
 vented only on the east end. N
|
S
 Head is hauler, please set 3rd 933 W
 Exp. gas 93; Manifest # 91512000
 Approx. 35 drums of oil/water pumped out
 prior to sampling. San Leandro St
 Bldg
 RR tracks

I.B TRANSPORTER (Title 22)

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

Contact: Dave Robinson
 Title: _____
 Signature: [Signature]

Inspector: Barney Chan
 Signature: [Signature]

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Division Inspection Form

②

Site ID# _____ Site Name AB+I Today's Date 6/3/92
 Site Address 7825 San Leandro St EPA ID# _____
 City _____ Zip 94 Phone _____

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

Inspection Categories:

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

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

IA GENERATOR (Title 22)

- 1. Waste ID * 66471
- 2. EPA ID 66472
- 3. > 90 days 66508
- 4. Label dates 66508
- 5. Biennial 66493

Manifest

- 6. Records 66492
- 7. Correct 66484
- 8. Copy sent 66492
- 9. Exception 66484
- 10. Copies Rec'd 66492

Prevention

- 11. Treatment 66371
- 12. On-site Disp. (H.S.&C.) 26189.5
- 13. Ex Haz. Waste 66570

Emergency

- 14. Communications 67121
- 15. Aisle Space 67124
- 16. Local Authority 67126
- 17. Maintenance 67120
- 18. Training 67105

Containers, Tanks

- 19. Prepared 67140
- 20. Name List 67141
- 21. Copies 67141
- 22. Emg. Coord. Trng. 67144

- 23. Condition 67241
- 24. Compatibility 67242
- 25. Maintenance 67243
- 26. Inspection 67244
- 27. Buffer Zone 67246
- 28. Tank Inspection 67259
- 29. Containment 67245
- 30. Safe Storage 67261
- 31. Freeboard 67257

Comments:

Put in approx 10' x 30' x 13' deep
 pool and sub to a blue green with appearance
 of a reading of soil from east end gave 60ppm
 but could not read 4' high. closed.
 AB+I will over excavate the east end to
 apparent "clean" prior to soil sampling.
 The water still appears to have a dark
 & pattern. Cover will determine what
 samples (soil and GW) will be taken after
 excavation completed. Apparent dry layer
 exists approx 4' feet deep.

IB TRANSPORTER (Title 22)

- 32. Applic./Insurance 66428
- 33. Comp. Cert./CHP Insp. 66448
- 34. Containers 66465

Manifest

- 35. Vehicles 66465
- 36. EPA ID #s 66531
- 37. Correct 66541
- 38. HW Delivery 66543
- 39. Records 66544

Containers

- 40. Name/ Covers 66545
- 41. Recyclables 66800

Contact: D. Robinson
 Title: _____
 Signature: _____

Inspector: B. Chan
 Signature: _____



APPENDIX C

A. Laboratory Analysis

DRAFT

FORMERLY MED-TOX

PAGE 1 OF 10

LEVINE-FRICKE
1900 POWELL STREET
12TH FLOOR
EMERYVILLE, CA 94608
ATTN: MICHAEL STOLL

REPORT DATE: 06/17/92

DATE SAMPLED: 06/05/92

DATE RECEIVED: 06/05/92

CLIENT PROJ. ID: 2408.01
C.O.C. SERIAL NO: 10826

QUANTEQ JOB NO: 9206070

ANALYSIS OF: WATER AND SOIL SAMPLES

| Client Sample Id. | Quanteq Lab Id. | Extractable Hydrocarbons as Diesel (mg/kg) | Extractable Hydrocarbons as Diesel (mg/L) |
|-------------------|-----------------|--|---|
| DEW1-E-9 | 01A | ND | --- |
| DEW2-N-9 | 02A | ND | --- |
| DEW3-N-8.5 | 03A | ND | --- |
| DEW4-W-8 | 04A | ND | --- |
| DEW5-S-8.5 | 05A | ND | --- |
| DEW6-S-9 | 06A | 2 | --- |
| D-GROUNDWATER | 07A | --- | 6.8 |
| Detection Limit | | 1 | 0.05 |
| Method: | | 3550 GCFID | 3520 GCFID |
| Instrument: C | | | |
| Date Extracted: | | 06/15/92 | 06/12/92 |
| Date Analyzed: | | 06/15/92 | 06/16/92 |

ND = Not Detected

Andrew Bradeen, Manager
Organic Laboratory

Results FAXed 06/16/92

PAGE 2 OF 10
Fixed

LEVINE-FRICKE

CLIENT ID: DEW1-E-9
 CLIENT PROJ. ID: 2408.01
 DATE SAMPLED: 06/05/92
 DATE RECEIVED: 06/05/92
 REPORT DATE: 06/16/92

QUANTEQ LAB NO: 9206070-01A
 QUANTEQ JOB NO: 9206070
 DATE ANALYZED: 06/08/92
 INSTRUMENT: H

BTEX (SOIL MATRIX)
 METHOD: EPA 8020 (5030)

| COMPOUND | CAS # | CONCENTRATION (ug/kg) | DETECTION LIMIT (ug/kg) |
|----------------|-----------|--------------------------|-------------------------------|
| Benzene | 71-43-2 | ND | 5 |
| Toluene | 108-88-3 | ND | 5 |
| Ethylbenzene | 100-41-4 | ND | 5 |
| Xylenes, Total | 1330-20-7 | ND | 5 |

ND = Not Detected

LEVINE-FRICKE

CLIENT ID: DEW2-N-9
 CLIENT PROJ. ID: 2408.01
 DATE SAMPLED: 06/05/92
 DATE RECEIVED: 06/05/92
 REPORT DATE: 06/16/92

QUANTEQ LAB NO: 9206070-02A
 QUANTEQ JOB NO: 9206070
 DATE ANALYZED: 06/08/92
 INSTRUMENT: H

BTEX (SOIL MATRIX)
 METHOD: EPA 8020 (5030)

| COMPOUND | CAS # | CONCENTRATION (ug/kg) | DETECTION LIMIT (ug/kg) |
|----------------|-----------|--------------------------|-------------------------------|
| Benzene | 71-43-2 | ND | 5 |
| Toluene | 108-88-3 | ND | 5 |
| Ethylbenzene | 100-41-4 | ND | 5 |
| Xylenes, Total | 1330-20-7 | ND | 5 |

ND = Not Detected

LEVINE-FRICKE

CLIENT ID: DEW4-W-8
 CLIENT PROJ. ID: 2408.01
 DATE SAMPLED: 06/05/92
 DATE RECEIVED: 06/05/92
 REPORT DATE: 06/16/92

QUANTEQ LAB NO: 9206070-04A
 QUANTEQ JOB NO: 9206070
 DATE ANALYZED: 06/08/92
 INSTRUMENT: H

BTEX (SOIL MATRIX)
 METHOD: EPA 8020 (5030)

| COMPOUND | CAS # | CONCENTRATION (ug/kg) | DETECTION LIMIT (ug/kg) |
|----------------|-----------|--------------------------|-------------------------------|
| Benzene | 71-43-2 | ND | 5 |
| Toluene | 108-88-3 | ND | 5 |
| Ethylbenzene | 100-41-4 | ND | 5 |
| Xylenes, Total | 1330-20-7 | ND | 5 |

ND = Not Detected

LEVINE-FRICKE

CLIENT ID: DEW6-S-9
 CLIENT PROJ. ID: 2408.01
 DATE SAMPLED: 06/05/92
 DATE RECEIVED: 06/05/92
 REPORT DATE: 06/16/92

QUANTEQ LAB NO: 9206070-06A
 QUANTEQ JOB NO: 9206070
 DATE ANALYZED: 06/08/92
 INSTRUMENT: H

BTEX (SOIL MATRIX)
 METHOD: EPA 8020 (5030)

| COMPOUND | CAS # | CONCENTRATION (ug/kg) | DETECTION LIMIT (ug/kg) |
|----------------|-----------|--------------------------|-------------------------------|
| Benzene | 71-43-2 | ND | 5 |
| Toluene | 108-88-3 | ND | 5 |
| Ethylbenzene | 100-41-4 | ND | 5 |
| Xylenes, Total | 1330-20-7 | ND | 5 |

ND = Not Detected

LEVINE-FRICKE

CLIENT ID: D-GROUNDWATER
CLIENT PROJ. ID: 2408.01
DATE SAMPLED: 06/05/92
DATE RECEIVED: 06/05/92
REPORT DATE: 06/16/92

QUANTEQ LAB NO: 9206070-07C
QUANTEQ JOB NO: 9206070
DATE ANALYZED: 06/08/92
INSTRUMENT: G

BTEX (WATER MATRIX)
METHOD: EPA 8020 (5030)

| COMPOUND | CAS # | CONCENTRATION (ug/L) | DETECTION LIMIT (ug/L) |
|----------------|-----------|-------------------------|------------------------------|
| Benzene | 71-43-2 | ND | 0.3 |
| Toluene | 108-88-3 | ND | 0.3 |
| Ethylbenzene | 100-41-4 | ND | 0.3 |
| Xylenes, Total | 1330-20-7 | ND | 1 |

ND = Not Detected

R-3,S-1
R-1,S-A

CHAIN OF CUSTODY / ANALYSES REQUEST FORM

Q206070

| | | | |
|-------------------------------------|-------------------------------|--------------|-------------------|
| Project No.: 2408.01 | Field Logbook No.: | Date: 6-5-92 | Serial No.: 10826 |
| Project Name: American Brass & Iron | Project Location: Oakland, CA | | |

Sampler (Signature): *Michael Stoll*

ANALYSES

SAMPLERS: MJJ

| SAMPLE NO. | DATE | TIME | LAB SAMPLE NO. | NO. OF CONTAINERS | SAMPLE TYPE | ANALYSES | | | | HOLD | RUSH | REMARKS |
|--------------|--------|------|----------------|-------------------|-----------------------|----------|---------|-------|-------|------|------|--|
| | | | | | | EPA 601 | EPA 624 | TPH-D | BTXES | | | |
| DEW1-E-9 | 6-5-92 | | 01A | 1 | Soil | | X | X | | | | Regular 7wd TAT Results to: Michael Stoll |
| DEW2-N-9 | | | 02A | 1 | | | X | X | | | | |
| DEW3-N-8.5 | | | 03A | 1 | | | X | | | | | |
| DEW4-W-8 | | | 04A | 1 | | | X | X | | | | |
| DEW5-S-8.5 | | | 05A | 1 | | | X | | | | | |
| DEW6-S-9 | | | 06A | 1 | X | | X | X | | | | |
| D-Grandwater | X | 8:20 | 07A-D | 4 | Water | | X | X | | | | Please Bill our client directly: American Brass & Iron 7825 San Leandro Street Oakland, CA 94621 Attn: Dave Robinson 632-8035 - FAX Per arrangements w/ Robin Byers |
| | | | | | 2 VOA-preserved | | | | | | | |
| | | | | | 2 Amber Hrs-preserved | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
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| | | | | | |
|---|--------------|-------------|---|--------------|-------------|
| RELINQUISHED BY: (Signature) <i>Michael Stoll</i> | DATE: 6-5-92 | TIME: 12:42 | RECEIVED BY: (Signature) <i>Gina Gillenow</i> | DATE: 6-5-92 | TIME: 12:42 |
| RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature) | DATE | TIME |
| RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature) | DATE | TIME |
| METHOD OF SHIPMENT: | DATE | TIME | LAB COMMENTS: | | |

| | |
|---|--|
| Sample Collector: LEVINE-FRICKE 1900 Powell Street, 12th Floor Emeryville, Ca 94608 (415) 652-4500 | Analytical Laboratory: Attn: Robin Byers Quantec, Pleasant Hill, CA |
|---|--|