



43289 Osgood Road, Fremont, Calif. 94539

(510) 623-0480

Cal. State Cont. Lic. # 572427

TANK CLOSURE REPORT

for

**Copper & Brass Sales
1295 67th Street
Emeryville, California**

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3932

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00
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December 29, 1992

Mr. George Blandino
Copper & Brass Sales
1295 67th Street
Emeryville, California 94608

Mr. Blandino:

K.T.W. & Associates, Inc. is pleased to submit this report describing closure activities associated with the removal of one underground storage tank in Emeryville, California. This report provides a description of site activities and observations that include: the condition of the excavated tank, the condition of tank's backfill and other subsurface materials, sampling procedures and locations, laboratory analytical procedures and certified analytical results, chain of custody documentation, a hazardous waste manifest, and a certificate of disposal.

Site Description

The site is Copper & Brass Sales, located at 1295 67th Avenue, Emeryville, California. A site location map is presented in Plate 1. One (1) 2,000 gallon underground diesel fuel tank was formerly located at the subject site. A site map showing the location of the site structure and former underground tank is presented in Plate 2.

Closure Plan and Permitting

A closure plan and permit applications for removal of underground tanks were completed and submitted to the City of Emeryville, Fire Department (EFD), the Alameda County Health Care Services Agency (ACHCSA) and City of Emeryville Building Department (EBD). Closure activities proceeded under an ACHCSA permit, the EFD permit No. 1271, and the EBD permit No. B-4496-11992 which are presented in Attachment A.

Underground Tank Closure

Prior to removal, the tank was pumped of 325 gallons of diesel fuel on December 9, 1992. The fuel was transported and disposed of as hazardous under manifest by a certified disposal and recycling firm. The manifest is located in Attachment C, Section 1. Tank removal activities occurred on December 14, 1992. Inspector Brian Oliva, Alameda County Health Care Services Agency, and Fire Inspector George Warren, Emeryville Fire Department, were present to observe the tank removal and sampling activities. Construction, documentation, and sampling services associated with closure were performed by K.T.W. & Associates. Closure activities were documented in an Inspection Report prepared by Brian Oliva, Attachment B.

Upon removal, although wrapped, the structural integrity of the tank was observed to be unsound, and contained corrosion holes at least one inch (1") or more in diameter at the west end of the tank. The tank was removed and transported from the site by a permitted hazardous waste transporter under hazardous waste manifest. A copy of the hazardous waste manifest and a Certificate of Disposal are located in Attachment C, Section 2.

General Observations, Underground Tank Closure

The tank, which had been used to store diesel fuel prior to its removal, contained the following trim; a vent line, a product line, an extraction riser, and a fill riser. The vent line, product line, extraction riser and fill riser were made of steel, wrapped, and no corrosion was apparent.

The vent line on the tank was properly installed so as to vent to the atmosphere, and not into the earth, and the riser assemblies that constituted the fill pipes for the tank were correctly assembled.

Strong hydrocarbon odors were observed while removing the tank, and the overburden material contained moderate discoloration. However, the soil remaining in the excavation was highly discolored with a grayish-green tint at the fill end and the bottom. The backfill material consisted of imported sands.¹

In addition to the soil staining, there was a small amount of water with a sheen of free product floating on top that also exhibited a hydrocarbon odor in the excavation.

¹Contamination found is believed to be from appearant over spills, and the holes found in the tank.

Soil Sampling

At the request of Inspector Oliva, two (2) soil samples (W. END and E. END) were taken from the excavation at nine (9) feet in depth. ²

The soil samples from the excavation were obtained by the use of a backhoe bucket. Upon removal of the soil, samples were extracted by driving a brass tube into the soil in the bucket; then sealed with foil and plastic caps and promptly stored on blue ice in a cooler.

Both samples were submitted on blue ice to McCampbell Analytical, Pacheco, California (DOHS #1644) on December 15, 1992, under the appropriate chain of custody documentation. The sample locations are noted on Plate 2 and combined in Table I.

Certified Analytical Results

Samples collected for minimum verification analyses (MVA) were analyzed in accordance with appropriate regulatory guidelines contained within Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks (RWQCB, 1988). Copies of soil analytical results are presented in Attachment D.

MVA for Underground Fuel Tank Excavation

The soil samples (W. END and E. END) collected from the native material below the fuel tank ranged from non-detected (N.D.) to high levels of the constituents sought. Sample W. END, taken from the west end of the excavation, ranged from N.D. for Benzene, Toluene, Total Xylenes and Ethylbenzene (BTXE), to 6.5 parts per million (p.p.m.) Total Petroleum Hydrocarbons as Gasoline (TPH-G); and at it's highest level, 42 p.p.m. Total Petroleum Hydrocarbons as Diesel (TPH-D). Sample E. END, taken from the east end of the excavation, ranged from 0.38 p.p.m. to 2.9 p.p.m. BTXE combined, 300 p.p.m. TPH-G and was 1,800 p.p.m. TPH-D at it's highest level of all constiuents sought. ³

²Inspector Oliva also requested a water sample be taken, but there was not enough water available in the excavation to do so.

³ Samples were also analyzed for Total Petroleum Hydrocarbons as Gasoline (TPH-G), although it was not requested by Alameda County Health Care Services Agency.

Overexcavation

After examination of the excavation, on December 15, 1992 overexcavation of the tank pit was done. Approximately seventy-five (75) yards of stained contaminated soil was removed, stockpiled on and covered with 10MIL polyethylene sheeting. Upon completion of these activities temporary fencing was placed around the excavation for safety, pending analytical results and further definition from regulatory agencies on this site.

Regulatory Guidelines

The Regional Water Quality Control Board - San Francisco Bay Region has established a level of 100 ppm TPH concentrations in soil as a general decision value for requiring further definition of site soil and groundwater contamination where shallow groundwater conditions are known to exist. The origin of the 100 ppm level was to "develop a method to prioritize the case load and indicate whether a significant volume of fuel had been released or discharged" (RWQCB, June, 1988).

K.T.W. & Associates suggests additional sampling be done in the excavation as well as the stockpile, clean imported fill be replaced in the excavation after all contaminated material has been removed, and the stockpiled material be remediated or disposed of at a Class III Landfill upon acceptance. All options given will be addressed as an addendum to this report under a separate letterhead upon characterization of the site from the regulatory agencies.

A copy of this report should be submitted to:

Alameda County Health Care Services Agency ✓
80 Swan Way, Room 200
Oakland, California 94621
Attn: Mr. Brian Oliva

City of Emeryville
Emeryville Fire Department
6303 Hollis Street
Emeryville, California 94608
Attn: Mr. George Warren

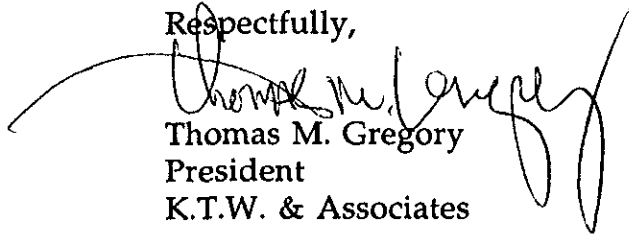
Mr. George Blandino
Copper & Brass Sales
December 29, 1992
Page 5

Regional Water Quality Control Board
1800 Harrison Street
Oakland, California 94612

Additional copies of this report have been provided for the purpose of regulatory submittal.

Should you have any questions or comments regarding the evaluations presented in this report, please call.

Respectfully,

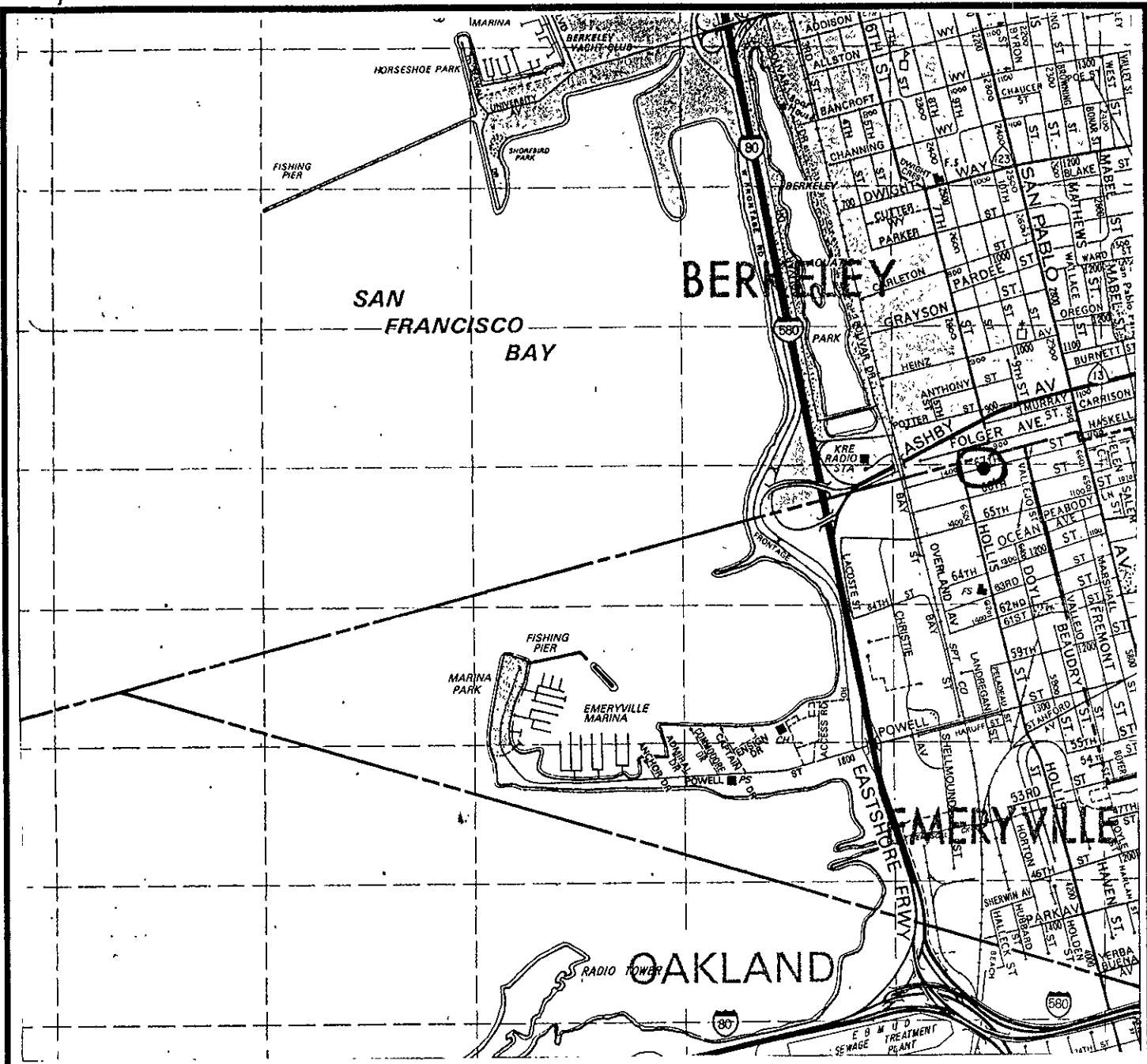


Thomas M. Gregory
President
K.T.W. & Associates

TMG/emm

Attachments

PLATES



SCALE
NTS

DATE
12/29/92

DRWG. BY
EMM

PLATE

1



SITE LOCATION
COPPER & BRASS SALES
1295 67th Street
Emeryville, California

● = Site Location

67th Street

Sidewalk

Driveways

Planters



Concrete

Former 2,000 Gallon Diesel Tank

Sample W. End

Original Excavation

Sample E. End

Overexcavation Area
2' in North, South & East Directions

Stockpile

Loading Dock

Neighboring Building

Existing Building

SCALE
NTS

DATE
12/29/92

DRWG. BY
EMM



SITE LOCATION
COPPER & BRASS SALES
1295 67th Street
Emeryville, California

PLATE

2

TABLE

COPPER BRASS SALES TABLE I

<u>SOIL SAMPLES</u>	<u>DATE</u>	<u>DEPTH</u>	<u>TPH-G</u>	<u>TPH-D</u>	<u>B</u>	<u>T</u>	<u>X</u>	<u>E</u>
W. END	12/14/92	9'	6.5	42	N.D.	N.D.	N.D.	N.D.
E. END	12/14/92	9'	300	1800	0.39	0.38	2.90	1.20

ABBREVIATIONS

TPH-G TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 TPH-D TOTAL PETROLEUM HYDROCARBONS AS DIESEL
 B BENZENE
 T TOLUENE
 X TOTAL XYLENES
 E ETHYLBENZENE
 N.D. NON-DETECTED

NOTE: ALL SOIL SAMPLES ARE MEASURED IN PARTS PER MILLION (PPM)

ATTACHMENT A

Permits

ALABAMA COUNTY CARE SERVICES AGENCY
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 HAZARDOUS MATERIALS DIVISION
 80 SWAN WAY, ROOM 200
 OAKLAND, CA 94621

PHONE NO. 510/271-4320

FRANK & O'CONNOR

APPROVED FOR CONSTRUCTION PERMIT
 CITY OF OAKLAND
 EX: *Alberca*
 DATE: *12-2-92*

ACCEPTED

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

These plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by the Department etc to assure compliance with State and local laws. The project proposed herein is now released for issuance of any required building permits for construction. One copy of these accepted plans must be on the job and available to all contractors and craftsmen involved with the removal.
 Any change or alterations of these plans and specifications must be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 48 hours prior to the following required inspections:
 Removal of Tank and Piping
 Sampling
 Final Inspection

Issuance 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 INSPECTIONS *800*

0 The Health Safety plan must conform to 29CFR 1910-120 note red pen marks indicate (1) (2) (3) Changes

** red pen indicates Changes made*

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1. Business Name Copper & Brass Sales
 Business Owner Mr. Lance Hadsall
 2. Site Address 1295 67th Street
 City Emeryville Zip 94608 Phone (510) 658-7212
 3. Mailing Address 1295 67th Street
 City Emeryville Zip 94608 Phone (510) 658-7212
 4. Land Owner Copper & Brass Sales
 Address 1295 67th St. City, State Emeryville, CA Zip 94608
 5. Generator name under which tank will be manifested Copper & Brass Sales
- EPA I.D. No. under which tank will be manifested CAC 000-697-504

EMERYVILLE FIRE DEPARTMENT
FIRE PREVENTION BUREAU
6303 HOLLIS STREET
EMERYVILLE, CA 94608
655-7678

CITY OF EMERYVILLE

FIRE CODE PERMIT

1271

PERMISSION IS HEREBY GRANTED K T W & Associates

~~XOPERATE~~
TO ~~MAINTAIN~~ Remove UG tank
~~XSTORE~~

ON PREMISES LOCATED AT 1295-67th Street

PERIODIC INSPECTIONS ARE A CONDITION OF THIS PERMIT WHICH IS ISSUED IN ACCORDANCE WITH UNIFORM FIRE CODE, AS SPECIFIED IN SECTION 4.108 OF SAID CODE.

ADDITION REQUIREMENTS -EFD requires 48-hr notice prior to removal
EFD & County rep to be present at removal

ENG. CO. DISTRICT # 5

EXPIRATION DATE: 01/31/93

**THIS PERMIT MUST BE
POSTED WITH BUSINESS
LICENSE**

PERMIT APPROVED BY

George Warren 12/2/92
FIRE MARSHAL DATE

BUILDING DEPARTMENT

CITY OF EMERYVILLE

Date 11/14/92 Lot No. _____

BUILDING PERMIT NO. B-24496-1192

Address 1295 67th STREET

Work LAND REMOVAL

Copper Brass + Sales _____

ITW + ASSOCIATES _____

Builder or Contractor

By [Signature] _____

City Inspector

DO NOT CONCEAL ANY WORK UNTIL INSPECTED AND APPROVED BY THE BUILDING INSPECTOR.

	DATE	INSP.
Piers & Setbacks		
Forms		
Foundation		
Slab		
Sub-Floor		
Ground Plumbing		
Ground Electrical		
Sub-Fir Insulation		
Shear Nailing		
Sewer		
Water		
Roof Sheathing		
Rough Electrical		
Rough Plumbing		
Rough Mechanical		
Frame		
Exterior Lathe		
Insulation		
Drywall		
Gas Test		
Final Electrical		
Final Plumbing		
Final Mechanical		
Final Building		
Fire Sprinkler		
Fire (Other)		

**FOR INSPECTIONS CALL 596-4315
24 HRS. PRIOR TO INSPECTION**

ATTACHMENT B

Inspection Form

white -env.health
 yellow -facility
 pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH
 Hazardous Materials Inspection Form

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

II, III

Site ID # 3932 Site Name Copper + Brass Sales Today's Date 12/14/92

Site Address 1295 67th St
 City Emeryville Zip 94609 Phone _____

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

Inspection Categories:

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

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

Comments:

TO check on # 72297
 On site for removal of 1200
 11 ST (diesel tank) tank in situ on site
 CO₂ - LEI O Tank tank under prior
 to removal. Upon removal several holes
 in tank revealed. Stained soil
 heavy petroleum also noted. Emeryville
 FD on site. Several photographs taken (5)
 There is "ice product" on top of tank
 in part
 (removed) samples at each end of tank
 2 soil, 11 July at 2:00 PM
 Samples to be taken and placed in
 RTV, TPAH-D, O
 Samples - stored in 50 gal drums
 to be disposed of in accordance
 with rules
 TO forward a written report to this
 office within 30 days.
 12/11 Make area around pipe safe
 so as to prevent injury

II.A BUSINESS PLANS (Title 19)

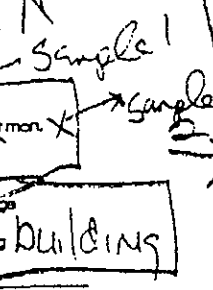
- 1. Immediate Reporting 25703
- 2. Bus. Plan Stats. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

II.B ACUTELY HAZ. MAT'LS

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Read? (Y/N)
- 14. OnSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

III. UNDERGROUND TANKS (Title 23)

- | | |
|---|---|
| General | <input type="checkbox"/> 1. Permit Application 25284 (H&S) |
| | <input type="checkbox"/> 2. Pipeline Leak Detection 25292 (H&S) |
| | <input type="checkbox"/> 3. Records Maintenance 2712 |
| | <input type="checkbox"/> 4. Release Report 2651 |
| | <input type="checkbox"/> 5. Closure Plans 2670 |
| Monitoring for Existing Tanks | <input type="checkbox"/> 6. Method |
| | 1) Monthly Test |
| | 2) Daily Vadose
Semi-annual groundwater
One time sols |
| | 3) Daily Vadose
One time sols
Annual tank test |
| | 4) Monthly Groundwater
One time sols |
| | 5) Daily Inventory
Annual tank testing
Cont pipe leak test
Vadose/groundwater mon. |
| | 6) Daily Inventory
Annual tank testing
Cont pipe leak test |
| | 7) Weekly Tank Gauge
Annual tank testing |
| | 8) Annual Tank Testing
Daily inventory |
| | 9) Other |
| New Tanks | <input type="checkbox"/> 7. Precip Tank Test 2643
Date: _____ |
| | <input type="checkbox"/> 8. Inventory Rec. 2644 |
| | <input type="checkbox"/> 9. Soil Testing 2646 |
| | <input type="checkbox"/> 10. Ground Water. 2647 |
| <input type="checkbox"/> 11. Monitor Plan 2632 | |
| <input type="checkbox"/> 12. Access, Secure 2634 | |
| <input type="checkbox"/> 13. Plans Submit 2711
Date: _____ | |
| <input type="checkbox"/> 14. As Built 2635
Date: _____ | |



Contact: _____
 Title: _____
 Signature: _____

Inspector: Ryan J...
 Signature: _____



EVERGREEN ENVIRONMENTAL SERVICES

6880 SMITH AVE., NEWARK, CA 94560
(800) 972-5284 EPA ID# CAD 980695761

A DIVISION OF CALIFORNIA OIL RECYCLERS, INC

**BILL OF LADING/
INVOICE 283631**

#1210
extra

JOB LOCATION

BILLING INFORMATION

DATE

12-09-92

CUSTOMER	NAME COPPER & BRASS				NAME KTW & ASSOC				CASH <input type="checkbox"/> CHECK #	
	ADDRESS 1295 67th St				ADDRESS 43289 OSGOOD RD.				PO # A3821-CBS	
	CITY STATE ZIP CO Emeryville CA 94608				CITY STATE ZIP CO EMERYMONT, CA 94539				CUSTOMER NO KPAS&1	
								PHONE NO 510 1655-7212		

PLEASE PAY FROM THIS INVOICE

TERMS: NET 7 DAYS

PRODUCT	MANIFEST #	GALLONS	PRICE	AMOUNT
USED OIL, NON-RCRA HAZARDOUS WASTE, COMBUSTIBLE LIQUID, NA1270	LUBRICATING INDUSTRIAL 92090745	325		
NON-RCRA HAZARDOUS WASTE LIQUID	UN1142 (AUTOMOTIVE ANTIFREEZE) UN9189 (OIL & WATER)			
WASTE PETROLEUM OIL NOS COMBUSTIBLE LIQUID NA1270 (GREATER THAN 1000 ppm HALOGENS)				
TEST PASS <input type="checkbox"/> FAIL <input type="checkbox"/> PPM				
OTHER: FIA-C test good				
DRAINED USED OIL FILTERS	CRUSHED <input type="checkbox"/> UNCRUSHED <input type="checkbox"/> EMPTY <input type="checkbox"/>			

BACK TO MORGAN 12-10-92
FOR THE BEST

CLEAN DIESEL

TSDF EVERGREEN OIL, INC. (510) 795-4400
6880 Smith Avenue EPA ID# CAD 980887418
Newark, California 94560

I certify that the information and amounts shown above are true and correct and that the used oil provided to Evergreen Environmental Services meets the definition of used oil pursuant to California Health & Safety Code, Section 25250.1 unless otherwise noted. This further serves as notification that the used oil is being managed for disposal pursuant to Section 66268.7(10) of the Health & Safety Code. I also acknowledge that I have read and agree to the terms and conditions set forth on the reverse side of this form.

TOTAL CHARGES

DRIVER: **F. James** ROUTE #: **5** DRIVER SIGNATURE: *[Signature]* GENERATOR'S SIGNATURE: *[Signature]*

[Handwritten mark]

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. **CAA 980695761910745** Manifest Document No. **45** 2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
EVERGREEN ENVIRONMENTAL SERVICES
 6880 Smith Avenue, Newark, CA 94560

4. Generator's Phone (510) 795-4400

5. Transporter 1 Company Name
EVERGREEN ENVIRONMENTAL SERVICES

6. US EPA ID Number
CA D 9 8 0 6 9 5 7 6 1

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
EVERGREEN OIL INC.
 6880 Smith Avenue, Newark, CA 94560

10. US EPA ID Number
CA D 9 8 0 8 8 7 4 1 8

A. State Manifest Document Number
92090745

B. State Generator's ID
HAHQ316114494

C. State Transporter's ID
310344

D. Transporter's Phone
(800) 353284

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID
CA D 9 8 0 8 8 7 4 1 8

H. Facility's Phone
(510) 795-4400

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers		13. Total Quantity	14. Unit Wt/Vol	1. Waste Number
	No.	Type			
a. X USED OILS—NON-RCRA HAZARDOUS WASTE, COMBUSTIBLE LIQUID, NA 1270	0	1 TIT	01750 G		State 221 EPA/Other None
b. NON-RCRA HAZARDOUS WASTE LIQUID	0	1 TIT	00440 G		State 134 EPA/Other None
c.					State EPA/Other
d.					State EPA/Other

11. Additional Descriptions for Materials Listed Above

11A — Waste oils with water
 11B — Ethylene glycol automotive antifreeze

12. Handling Codes for Wastes Listed Above

a. **OT** b. **14**

15. Special Handling Instructions and Additional Information

WEAR RUBBER GLOVES

24 HOUR EMERGENCY RESPONSE # (510) 795-4400
EMERGENCY CONTACT — KIRK HAYWARD
GUIDE #27

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the 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 federal, state and international laws.

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: **Phillip Jameson** Signature: *Phillip Jameson* Month: **12** Day: **09** Year: **92**

17. Transporter 1 Acknowledgement of Receipt of Material
 Printed/Typed Name: **Phillip Jameson** Signature: *Phillip Jameson* Month: **12** Day: **09** Year: **92**

18. Transporter 2 Acknowledgement of Receipt of Material
 Printed/Typed Name: Signature: Month: Day: Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator Acknowledgement of Receipt of Hazardous Materials Covered by This Manifest except as noted hereon
 Printed/Typed Name: **M. H. SOUTER** Signature: *M. H. Souter* Month: Day: Year: **12 09 92**

DO NOT WRITE BELOW THIS LINE.

GENERATOR

TRANSPORTER

FACILITY

ATTACHMENT C

Section 2

**Hazardous Waste Manifest
&
Certificate of Disposal**

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1

Information in the shaded areas is not required by Federal law

C1A100069750401739 1 of 1

3. Generator's Name and Mailing Address

COPPER & BRASS SALES
1295 67th ST
EMERYVILLE CA 94608
4. Generator's Phone (570) 658 7212

5. Transporter 1 Company Name

6. US EPA ID Number

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address

Erickson, Inc.
255 Parr Blvd
Richmond, Ca: 94801

10. US EPA ID Number

C6000AK6B02

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)

12. Containers

13. Total Quantity

14. Unit Wt/Vol

a. Waste Empty Storage Tank
NON-RCRA Hazardous Waste Solid.

No. Type Quantity Unit Wt/Vol
1 1 P 2000 P

15. Special Handling Instructions and Additional Information

Keep away from sources of ignition: Always wear hardhats when working around
-S.T.'s 24 Hr: Contact Name DEAN FEARD Phone 510-623-0480

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of the 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 federal, state and international laws.

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

LANCE E. HADSTELL

Signature

Lance E. Hadstell

Month Day Year
11 21 14 92

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name

DAN BAILEY

Signature

Dan Bailey

Month Day Year
11 21 14 92

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name

DAVID SATO

Signature

DAVE SATO

Month Day Year
11 21 14 92

DO NOT WRITE BELOW THIS LINE

92201739
IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802; WITHIN CALIFORNIA, CALL 1-800-952-7550

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

CUSTOMER KEW	
JOB NO.	80314

FOR: Erickson, Inc. TANK NO. 10308

LOCATION: Richmond DATE: 12/15/92 TIME: 12:03:06

TEST METHOD Visual Gastech/1314 SMPN LAST PRODUCT D

This is to certify that I have personally determined that this tank is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE 2000 Gallon Tank CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9%
LOWER EXPLOSIVE LIMIT LESS THAN 0.1%

"ERICKSON INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS
WASTE FACILITY."

In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

STANDARD SAFETY DESIGNATION

SAFE FOR MEN: Means that in the compartment or space so designated (a) The oxygen content of the atmosphere is at least 19.5 percent by volume; and that (b) Toxic materials in the atmosphere are within permissible concentrations; and (c) In the judgment of the Inspector, the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Inspector's certificate.

SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit; and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration that permitted under existing atmospheric conditions in the presence of fire and while maintained as directed on the Inspector's certificate, and further, (c) All adjacent spaces have either been cleaned sufficiently to prevent the spread of fire, are satisfactorily inerted, or in the case of fuel tanks, have been treated as deemed necessary by the Inspector.

The undersigned representative acknowledges receipt of this certificate and understands the conditions and limitations under which it was issued.

K. A. Lita REPRESENTATIVE AS INSPECTOR
TITLE

ATTACHMENT D

**Certified Analytical
Results**

KTW & Associates 43289 Osgood Road Fremont, CA 94539	Client Project ID: Copper and Brass Sales, Emeryville	Date Sampled: 12/14/92
	Client Contact: John Sutfin	Date Received: 12/15/92
	Client P.O: A3833-CBS	Date Extracted: 12/15/92
		Date Analyzed: 12/15-12/17/92

Low Boiling Point (C6-C12) TPH* as Gasoline and BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(G) ⁺	Benzene	Toluene	Ethyl Benzene	Xylenes	% Rec. Surrogate
21034	W. END	S	6.5,g	ND	ND	ND	ND	96
21035	E. END	S	300,g,e	0.39	0.38	1.2	2.9	117 [#]
Detection Limit unless otherwise stated; ND means Not Detected	W		50 ug/L	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L and soils in mg/kg

#cluttered chromatogram; sample peak co-elutes with surrogate peak

⁺The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gasoline compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) gasoline range compounds predominate; no recognizable pattern; f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds predominate.

QC REPORT

Date: 12/13-12/15/92

Matrix: Soil

Analyte	Concentration (mg/kg)			Amount Spiked	% Recovery		
	Sample	MS	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.664	1.774	2.03	82	87	6.4
Benzene	0.000	0.188	0.192	0.2	94	96	2.1
Toluene	0.012	0.212	0.218	0.2	100	103	2.8
Ethyl Benzene	0.000	0.206	0.216	0.2	103	108	4.7
Xylenes	0.000	0.612	0.644	0.6	102	107	5.1
TPH (diesel)	0	158	151	150	105	101	4.5
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

