



ENVIRONMENTAL
PROTECTION
96 DEC -3 PM 2:19

September 16, 1996

STD 789

Ms. Susan Hugo
Alameda County Health Agency
Division of Hazardous Materials
1131 Harbor Bay Parkway, Rm 250
Alameda, CA 94502-6577

Subject: **Tank Removal Closure Report
6655 Hollis Street, Emeryville, California**

Dear Ms. Hugo:

Enclosed please find a copy of the report documenting the tank removal, soil remediation and sampling activities for the two underground fuel storage tanks located at 6655 Hollis Street in Emeryville, California.

If you have any questions or comments, do not hesitate to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read 'C. Lilienthal'.

Christopher R. Lilienthal

Enclosure

cc: Mr. Robert Thomas, McGrath Steel Company

SUBSURFACE ENVIRONMENTAL CORP



**UNDERGROUND STORAGE TANK REMOVAL
CLOSURE REPORT**

**6655 Hollis Street
Emeryville, California**

September 16, 1996

Prepared for:

**McGrath Steel
6655 Hollis Street
Emeryville, California**

1.0 INTRODUCTION

At the request of Mr. Robert Thomas of McGrath Steel, the tank owner's representative, Subsurface Environmental Corp. (Subsurface) removed two 2,000 gallon capacity fuel underground storage tanks (UST's) and associated contaminated soil. This report describes the tank removal, soil remediation, and soil sampling activities. Appendix A contains the Underground Storage Tank Closure Plan permit issued by the Alameda County Health Agency, Division of Hazardous Materials, Department of Environmental Health (ACDEH) and other appropriate permits.

2.0 BACKGROUND

The Site is located at 6655 Hollis Street, Emeryville, California. The Site is owned by the Loretta A. McGrath Family Trust and is occupied by a commercial steel fabricator, McGrath Steel Company. Two 2,000 gallon capacity fuel UST's, one that contained diesel and one that contained unleaded gasoline, were located beneath the sidewalk, immediately in front of the warehouse building on 67th Street. The UST's were used to store fuel to operate the company's vehicles.

The diesel tank was installed in 1979 and was last used in January 1996. The unleaded gasoline tank was installed in February 1981 and was last used in October 1995. Both of the tanks were single walled steel tanks. No known previous investigations were performed on the site or UST's.

3.0 UST REMOVAL ACTIVITIES

3.1 Removal Activities

The UST removal activities were conducted on July 2 and July 3, 1996. After removing the concrete sidewalk with a concrete breaker, the soil surrounding the UST's was excavated, exposing the UST's, and stockpiled on the adjacent parking lot. Soil from each excavation was stockpiled separately. The soil from the diesel tank was designated as Stockpile 1, and the soil excavated from the gasoline tank was designated as Stockpile 2. Shoring was installed around the perimeter of both tank excavations to protect the existing sidewalk and buildings.

There was no residual product in either tank. The gasoline tank was rinsed as required to reduce combustible vapors. Approximately 4 gallons of rinsate was pumped out of the tank and transported by Erickson, Inc., a permitted hazardous waste hauler, to Evergreen of Newark, California, for recycling. Appendix B includes a copy of the uniform hazardous waste manifest that was used for transportation of the rinsate. Approximately 200 lbs. of dry ice was placed inside the tanks to inert the tank atmosphere. A portable meter was used to determine percent oxygen and percent explosive vapors to ensure safe removal.

Upon approval of Ms. Susan Hugo of the ACDEH, Inspector George Warren of the Emeryville Fire Department, and Juan Arreguin of the Emeryville Department of Public Works, the UST's were removed with the use of conventional construction equipment. The UST's were placed upon a flatbed truck for transportation under

manifest to Erickson, Inc., a fully permitted UST recycling facility. Appendix B includes a copy of the uniform hazardous waste manifest that was used for transportation and disposal of the UST's.

3.2 Visual Inspection

After UST removal, Ms. Hugo conducted a visual inspection of the UST's and soil in the excavation. No holes were found on the tanks. However, some weakness at the tank bungs were noted. There was some obvious contamination in the soil surrounding the tanks. Discoloration and odor was present in both the excavations and in the stockpiles of soil.

3.3 Sampling

Subsurface personnel sampled the soils under the direction of Ms. Hugo and in accordance with the State of California Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites.

Two soil samples were taken from the bottom of each excavation and one sample was taken from each stockpile. Samples were obtained from the bottom and sidewalls of the tank pit by bringing soil to the surface whereupon two-inch diameter by 6-inch long brass tubes were driven into the soil to be sampled. Samples were obtained from the stockpiles by driving brass tubes directly into the soil to be sampled. The ends of each brass tube were covered with Teflon and capped with plastic end caps. Strict chain of custody protocols were observed in all phases of sample handling. The samples were placed on dry ice in a portable cooler and delivered to a State certified laboratory.

Please refer to Table 1 and the soil sampling map for locations and depths of samples.

4.0 LABORATORY ANALYTICAL PROCEDURES

The samples were analyzed by McCampbell Analytical Inc., of Pacheco, California, a State Certified environmental testing laboratory.

The samples were analyzed for total petroleum hydrocarbons as diesel (TPHd) using EPA Method Modified 8015; total petroleum hydrocarbons as gasoline (TPHg) by EPA Method Modified 8015, benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA Method 8020, methyl tert-butyl ether MTBE by EPA Method 8020, and lead by EPA Method 6010.

5.0 LABORATORY ANALYTICAL RESULTS

Diesel and BTEX was detected in the diesel tank excavation at both ends and in Stockpile 1. Gasoline, BTEX, MTBE and lead was detected in the gasoline tank excavation at both ends and in Stockpile 2.

Please refer to Table 1 for analytical results. Copies of the laboratory reports, certificates of analysis, chain of custody documentation, and QA/QC are attached as Appendix C.

6.0 SOIL REMEDIATION ACTIVITIES

6.1 Overexcavation

On July 11, 1996, Subsurface personnel returned to the site to perform the overexcavation activities. Ms. Hugo was onsite to witness the overexcavation and soil sampling activities. As much soil as possible was excavated from each tank pit without compromising the integrity of the shoring and adjacent improvements. Contaminated soil from each tank excavation was stockpiled separately and covered with polyethylene sheeting.

6.2 Overexcavation Sampling

Following completion of the overexcavation activities, soil samples were collected from the sidewalls and the bottom of the tank excavations to determine what, if any, contamination remained.

Please refer to Table 2 and the soil sampling map for soil sample locations and analytical results.

6.3 Contaminated Soil Disposal

The originally excavated soil (Stockpile 1 and Stockpile 2) and the overexcavated soil from each tank excavation were sampled and analyzed as required by Browning Ferris Industries (BFI) of Livermore, California, the selected disposal facility. Upon acceptance by BFI, approximately 50 cubic yards of soil was loaded onto trucks for transport. One 10 yard load of soil was transported by Subsurface and two 20 yard loads were transported by Rogers Trucks of South San Francisco, to BFI for disposal. Copies of the manifests that were used for soil disposal are included in Appendix B.

7.0 BACKFILLING OPERATIONS

Approximately 70 cubic yards of clean import fill material was placed inside the tank excavations and compacted with a vibratory plate to an approximate density of 90%. At the completion of backfilling and compacting activities, the sidewalk was replaced. A visual inspection of the new sidewalk was performed by the Emeryville Public Works Department and approved.

8.0 CONCLUSIONS

Although no holes were found on either tank, contamination detected in the soil may have been caused by the leaks in the tank bungs. Some overspilling also may have occurred during the years the tanks were in operation.

All contaminated soil as required by the ACDEH was removed. Analytical results following the completion of the contaminated soil removal showed that gasoline contamination had been reduced from a high of 1,300 parts per million (ppm) to 15 ppm. Analytical results for samples taken from the diesel tank excavation following the completion of the contaminated soil removal show diesel contamination ranging from 15 ppm to 870 ppm.

All tank removal and soil remediation work was performed in accordance with all regulatory guidelines, and as required by the ACDEH. Therefore, on behalf of the property owners, Subsurface Environmental requests that closure for the UST's be granted by the ACDEH.

9.0 REPORT DISTRIBUTION

Copies of this report were delivered to:

Ms. Susan Hugo
Alameda County Health Agency
Division of Hazardous Materials
1131 Harbor Bay Parkway, Rm 250
Alameda, CA 94502-6577

Mr. Robert Thomas
McGrath Steel Company
6655 Hollis Street
Emeryville, CA 94526

Mr. Denes Turcsayni
Environmental Consultant
849 Santa Barbara Road
Berkeley, CA 94707

APPENDIX A

PERMITS

ALameda County Health Care Services Agency
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 ENVIRONMENTAL PROTECTION DIVISION
 1131 HARBOR BAY PARKWAY, RM 250
 ALAMEDA, CA 94502-6577
 PHONE # 510/567-6700
 FAX # 510/337-9335

Project Specialist

ACCEPTED

Underground Storage Tank Closure Permit Application
 Address in County of Alameda, California
 1131 Harbor Bay Parkway, Rm 250
 Alameda, CA 94502-6577

These closure plans must be in conformance with the requirements of State and local laws and regulations. The closure plans must be approved by the Department of Environmental Health and Building Inspection. The Department will not issue a permit for the closure of a tank until the Department has received the required information. The Department will not issue a permit for the closure of a tank until the Department has received the required information. The Department will not issue a permit for the closure of a tank until the Department has received the required information.

- Removal of Tank and piping
- Grouting
- Final Installation

Issuance of a permit to operate, by permittee, after closure, is dependent on compliance with accepted plans and all applicable laws and regulations.

THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.

Contact Specialist:

UNDERGROUND TANK CLOSURE PLAN
 * * * Complete according to attached instructions * * *

1. Name of Business McGrath Steel Company
 Business Owner or Contact Person (PRINT) Robert L. Thomas

2. Site Address 6655 Hollis Street
 City Emeryville, CA Zip 94608 Phone (510) 596-2400

3. Mailing Address P.O. Box 8036
 City Emeryville, CA Zip 94662 Phone (510) 596-2400

4. Property Owner Loretta A. McGrath Family Trust
 Business Name (if applicable) _____
 Address 658 Doral Drive
 City, State Danville, CA Zip 94526

5. Generator name under which tank will be manifested
McGrath Steel Company

EPA ID# under which tank will be manifested CA 000148441

Address 1796 18th Street Ste C
City San Francisco, CA Phone (415) 863-8100
General Engineering A
License Type w/Hazardous Substances ID# 618766

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board.

7. Consultant (if applicable) _____
Address _____
City, State _____ Phone _____

8. Main Contact Person for Investigation (if applicable)
Name Roxanne Harris Title Project Manager
Company Subsurface Environmental
Phone (415) 863-8100

9. Number of underground tanks being closed with this plan 2
Length of piping being removed under this plan 20 feet
Total number of underground tanks at this facility (**confirmed with owner or operator) 2

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground storage tanks must be handled as hazardous waste **

a) Product/Residual Sludge/Rinsate Transporter
Name American Valley EPA I.D. No. CAL 000121154
Hauler License No. 2953 License Exp. Date 6/97
Address 2930 Geer Road #156
City Turlock State CA Zip 95382

b) Product/Residual Sludge/Rinsate Disposal Site
Name Petroleum Recycling Corp EPA ID# CAD 083166728
Address P.O. Box 1167
City Patterson State CA Zip 95363

c) Tank and Piping Transporter

Name Erickson EPA I.D. No. CAD009466392
Hauler License No. 0019 License Exp. Date NA
Address 255 Parr Blvd
City Richmond State CA Zip 94801

d) Tank and Piping Disposal Site

Name Erickson EPA I.D. No. CAD009466392
Address 255 Parr Blvd,
City Richmond State CA Zip 94801

11. Experienced Sample Collector

Name Roxanne Harris
Company Subsurface Environmental Corp
Address 1796 18th Street Suite C
City San Francisco State CA Zip 94107 Phone (415) 863-8100

12. Laboratory

Name McCampbell
Address 110 2nd Avenue So.#D7
City Pacheco State CA Zip 94553
State Certification No. 1644

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

If yes, describe. _____

Pressure wash tanks, pump out rinsate, and place 50 lbs of carbon dioxide for every 1000 gallons of tank volume.

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 permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000, along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of a combustible gas indicator to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert.

15. Tank History and Sampling Information *** (see instructions) ***

Capacity	Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
	Use History include date last used (estimated)			
2000	TANK #1 Diesel Installed 1979 Last used 1/96		Soil	One at each end of tank excavation 2' max below bottom of tank #1 excavation.
2000	TANK #2 Unleaded Installed 2/4/81 Last used 10/95		Soil	One at each end of tank excavation 2' max below bottom of tank #2 excavation.
<p><i>And sample must be collected underneath the dispenser.</i></p>				

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

Excavated/Stockpiled Soil

Stockpiled Soil Volume (estimated)	Sampling Plan
20 cubic yards: 10 cubic yards for each tank excavation	1 - four point composite sample for each stockpile of approx 10 yards.

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

Will the excavated soil be returned to the excavation immediately after tank removal? yes no unknown

If yes, explain reasoning will only place stockpile back in tank excavation, if more safe for public and if approved by Alameda County at the time of the tank pull.

~~If unknown at this point in time, please be aware that excavated soil may not be returned to the excavation without prior approval from Alameda County. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling operations.~~

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.

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

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
Gasoline	TPH-G (5030)	EPA Modified (8015)	1.0ppm
Diesel	TPH-D (3550)	EPA Modified (8015)	1.0ppm
	BTEX (5030)	EPA Modified (8020)	0.005-0.5ppm
1992C			
Pb			

Name of Insurer State Compensation Insurance Fund Policy #1291679-95

- 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 written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form.
- 22. Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.
- 23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner)

I declare that to the best of my knowledge and belief that 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 approval from the Environmental Protection Division 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.

CONTRACTOR INFORMATION

Name of Business Subsurface Environmental Corp.

Name of Individual Roxanne Harris

Signature _____ Date _____

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business McGrath Steel Company

Name of Individual Robert L. Thomas

Signature *Robert L. Thomas* Date 6-11-96

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

<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED SITE
<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY SITE CLOSURE	

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

DBA OR FACILITY NAME: McGrath Steel Company NAME OF OPERATOR: Robert L. Thomas

ADDRESS: 6655 Hollis Street NEAREST CROSS STREET: _____ PARCEL ID (OPTIONAL): _____

CITY NAME: Emeryville, Ca STATE: CA ZIP CODE: 94662 SITE PHONE # WITH AREA CODE: _____

INDICATE: BOX CORPORATION INDIVIDUAL PARTNERSHIP LOCAL AGENCY DISTRICT COUNTY AGENCY STATE AGENCY FEDERAL AGENCY

* If owner of UST is a public agency, complete the following: name of supervisor of division, section, or unit in which operates the UST

TYPE OF BUSINESS: 1 GAS STATION 2 DISTRIBUTOR 3 FARM 4 PROCESSOR 5 OTHER

IF INDIAN RESERVATION OR TRUST LANDS # OF TANKS AT SITE: 2 E.P.A. ID # (optional): CA10001644

EMERGENCY CONTACT PERSON (PRIMARY)

DAYS: NAME (LAST, FIRST): Harris, Roxanne PHONE # WITH AREA CODE: (415) 863-8100

NIGHTS: NAME (LAST, FIRST): Harris, Roxanne PHONE # WITH AREA CODE: (415) 393-9343

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST): _____ PHONE # WITH AREA CODE: _____

NIGHTS: NAME (LAST, FIRST): _____ PHONE # WITH AREA CODE: _____

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME: Loretta A. McGrath Family Trust CARE OF ADDRESS INFORMATION: _____

MAILING OR STREET ADDRESS: 658 Doral Drive BOX INDIVIDUAL LOCAL AGENCY STATE AGENCY

CITY NAME: Danville CORPORATION PARTNERSHIP COUNTY AGENCY FEDERAL AGENCY

STATE: CA ZIP CODE: 94526 PHONE # WITH AREA CODE: _____

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME OF OWNER: McGrath Steel Company CARE OF ADDRESS INFORMATION: _____

MAILING OR STREET ADDRESS: P.O. Box 8036 BOX INDIVIDUAL LOCAL AGENCY STATE AGENCY

CITY NAME: Emeryville CORPORATION PARTNERSHIP COUNTY AGENCY FEDERAL AGENCY

STATE: CA ZIP CODE: 94662 PHONE # WITH AREA CODE: _____

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Cal: (916) 322-9669 if questions arise.

TY (TK) HQ: 46 - [] [] [] [] [] [] [] [] [] []

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

SELF INSURED 1 SELF INSURED 2 GUARANTEE 3 INSURANCE 4 BUREAU BOND

LETTER OF CREDIT 5 EXEMPTION 6 OTHER

VI. LEGAL NOTIFICATION AND BILLING ADDRESS Legal notification and billing will be sent to the tank owner unless box 1 or 2 is checked

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING

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

OWNER'S NAME (PRINT & SIGN): [Signature] OWNER'S TITLE: AL DEMIL EXEC. VICE PRES. DATE: JUNE 11, 1996

LOCAL AGENCY USE ONLY

COUNTY # [] JURISDICTION # [] FACILITY # []

LOCATION CODE (OPTIONAL) [] [] [] [] [] [] [] [] [] []

CEMS TRACT # (OPTIONAL) [] [] [] [] [] [] [] [] [] []

SUPPLIER - DISTRICT CODE (OPTIONAL) [] [] [] [] [] [] [] [] [] []

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY. OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

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"/> 6 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"/> 5 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED: McGrath Steel Company

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A OWNER'S TANK I.D.# ONE

C DATE INSTALLED (MO/DAY/YEAR) 1979

B MANUFACTURED BY UNKNOWN

D TANK CAPACITY IN GALLONS 2000

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

A 1 MOTOR VEHICLE FUEL

2 PETROLEUM

3 CHEMICAL PRODUCT

4 OIL

5 EMPTY

6 UNKNOWN

B 1 PRODUCT

2 WASTE

C 10 REGULAR UNLEADED

11 PREMIUM UNLEADED

12 MIDGRADE UNLEADED

13 LEADED

3 DIESEL

4 GAS/OIL

5 JET FUEL

6 AVIATION GAS

7 METHANOL

8 MMS

99 OTHER (DESCRIBE IN ITEM D BELOW)

D IF (A) IS NOT MARKED ENTER NAME OF SUBSTANCE STORED

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

A. TYPE OF SYSTEM

1 DOUBLE WALL

2 SINGLE WALL

3 SINGLE WALL WITH EXTERIOR LINER

4 SINGLE WALL IN A VAULT

5 INTERNAL BLADDER SYSTEM

6 OTHER

B. TANK MATERIAL (Primary Tank)

1 BARE STEEL

2 STAINLESS STEEL

3 FIBERGLASS

4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC

5 CONCRETE

6 POLYVINYL CHLORIDE

7 ALUMINUM

8 100% METHANOL COMPATIBLE WEAP

9 BRONZE

10 GALVANIZED STEEL

11 UNKNOWN

12 OTHER

C. INTERIOR LINING OR COATING

1 RUBBER LINING

2 ALKYL LINING

3 EPOXY LINING

4 PHENOLIC LINING

5 GLASS LINING

6 UNLINED

7 UNKNOWN

8 OTHER

IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES NO

D. EXTERIOR CORROSION PROTECTION

1 POLYETHYLENE WRAP

2 COATING

3 VINYL WRAP

4 FIBERGLASS REINFORCED PLASTIC

5 CATHODIC PROTECTION

6 NONE

7 UNKNOWN

8 OTHER

E. SPILL AND OVERFILL, ETC. SPILL CONTAINMENT INSTALLED (YEAR) NONE OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) NONE

DROP TUBE YES NO STRIKER PLATE YES NO DISPENSER CONTAINMENT YES NO

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

A. SYSTEM TYPE

A U 1 SUCTION

A U 2 PRESSURE

A U 3 GRAVITY

A U 4 FLEXIBLE PIPING

A U 5 OTHER

B. CONSTRUCTION

A U 1 SINGLE WALL

A U 2 DOUBLE WALL

A U 3 UNED TRENCH

A U 4 OTHER

C. MATERIAL AND CORROSION PROTECTION

A U 1 BARE STEEL

A U 2 STAINLESS STEEL

A U 3 POLYVINYL CHLORIDE (PVC)

A U 4 FIBERGLASS PIPE

A U 5 ALUMINUM

A U 6 CONCRETE

A U 7 STEEL W/ COATING

A U 8 100% METHANOL COMPATIBLE WEAP

A U 9 GALVANIZED STEEL

A U 10 CATHODIC PROTECTION

A U 11 UNKNOWN

A U 12 OTHER

D. LEAK DETECTION

1 PERMANENT LEAK DETECTOR

2 LEAK TRENCH

3 CONTINUOUS AUTOMATIC MONITORING

4 SETPOINT LEAK DETECTOR

5 AUTOMATIC PUMP

6 OTHER NONE

V. TANK LEAK DETECTION

1 VISUAL CHECK

2 MANUAL INVENTORY RECONCILIATION

3 VADOLZ MONITORING

4 AUTOMATIC TANK GAUGING

5 GROUND WATER MONITORING

6 ANNUAL TANK TESTING

7 CONTINUOUS INTERSTITIAL MONITORING

8 IIR

9 WEEKLY MANUAL TANK GAUGING

10 MONTHLY TANK TESTING

11 UNKNOWN

12 OTHER

VI. TANK CLOSURE INFORMATION (PERMANENT CLOSURE IN PLACE)

1 ESTIMATED DATE LAST USED (MO/DAY/YEAR) 1976

2 ESTIMATED QUANTITY OF SUBSTANCE REMAINING UNKNOWN GALLONS

3 WAS TANK FILLED WITH INERT MATERIAL? YES NO

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

TANK OWNER'S NAME (PRINTED & SIGNED) AL DEMIL

EXECUTIVE VICE PRESIDENT

DATE JUNE 11, 1996

LOCAL AGENCY USE ONLY THE STATE ID NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE ID.#

COUNTY #

JURISDICTION #

FACILITY #

TANK #

PERMIT NUMBER

PERMIT APPROVED BY DATE

PERMIT EXPIRATION DATE

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A UNLESS A CURRENT FORM A HAS BEEN FILED. FORM C MUST BE COMPLETED FOR INSTALLATIONS. THIS FORM SHOULD BE ACCOMPANIED BY A PLOT PLAN. FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS.

ENCROACHMENT PERMIT
CITY OF EMERYVILLE PUBLIC WORKS DEPARTMENT
2200 POWELL ST., 12TH FLR. (510) 596-4330
EMERYVILLE, CA 94608

DATE 6/18/96
PROPERTY OWNER Loretta A McGrath Family Trust
CONTACT PERSON Robert L. Thomas PHONE NO. (510) 596-2400
ADDRESS 658 Doral Drive, Danville, CA 94526

CONTRACTOR Subsurface Environmental
CONTACT PERSON Roxanne Harris PHONE NO. (415) 863-8100
ADDRESS 1796 18th St. Ste C, San Francisco, 94107
LOCATION OF WORK (INCLUDE ADDRESS AND STREET NAME AND CROSS STREETS)

MCGrath Steel
6655 Hollis Street, Emeryville, CA 94608
Cross street - 67th

PLANNED DATE OF COMMENCEMENT 6/24/96 PLANNED DATE OF COMPLETION 6/31/96

DESCRIPTION OF WORK (INCLUDE AVERAGE DEPTH OF EXCAVATION, MAXIMUM DEPTH, AVERAGE WIDTH, LENGTH, AND ESTIMATED COST OF WORK)
Removal of 2 underground storage tanks
8' avg depth; 6' avg width; 11' avg length
Estimated cost: \$14,503.00

24 HR NOTICE PRIOR TO START OF WORK MONUMENTS TO BE REPLACED PLAN SUBMITTED

CURRENT BUSINESS LICENSE ON FILE YES? NO?

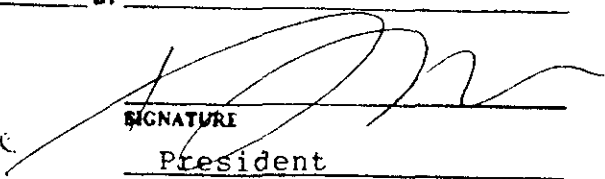

REMARKS _____

NOTE: PROOF OF ADEQUATE INSURANCE MUST BE PRESENTED PRIOR TO START OF WORK OR THIS PERMIT IS VOID.

FOR INSPECTION UPON COMPLETION OF WORK, PLEASE CALL JUAN ARREGUIN AT (510) 596-4333
FOR REFUNDABLE DEPOSIT UPON ENGINEER SIGN-OFF, PLEASE CALL KATHLEEN WALLS AT (510) 596-4334. PLEASE REFER TO THE PERMIT NUMBER LISTED ABOVE.

INSPECTION COMPLETED ON _____ BY _____
REFUNDABLE DEPOSIT RETURNED ON _____ BY _____

Post-it brand fax transmittal memo 7671		# of pages: 4	
to: <u>SURV</u>	from: <u>Subsurface Environmental</u>	City of Emeryville	
date: _____	phone: _____	_____	
415-863-8100		_____	


SIGNATURE
President
TITLE


CITY OF EMERYVILLE
 FIRE DEPARTMENT
 6303 HOLLIS STREET
 EMERYVILLE, CA, 94608
 (510) 596-3750

**FIRE DEPARTMENT
 USE ONLY**

(PERMIT NUMBER)

APPLICATION AND PERMIT

THIS APPLICATION IS YOUR PERMIT WHEN PROPERLY FILLED OUT,
 SIGNED, VALIDATED AND FEES PAID.

ADDRESS: 6655 Hollis Street

BUSINESS NAME: McGrath Steel

CONTACT PERSON: Roxanne Harris

TELEPHONE NUMBER: (415) 863-8100

DESCRIPTION OF OPERATION:

Removal of 2 2000 gallon underground
 storage tanks by Subsurface
 Environmental

APPLICANT READ AND SIGN BELOW:

I CERTIFY THAT I HAVE READ THIS APPLICATION AND STATE THAT
 THE INFORMATION GIVEN IS TRUE AND CORRECT. I AGREE TO
 COMPLY WITH ALL LOCAL ORDINANCES AND STATE LAWS THAT
 RELATE TO THIS PERMIT. I HEREBY AUTHORIZE REPRESENTATIVES
 OF THE CITY TO ENTER UPON THE ABOVE MENTIONED PROPERTY TO
 VERIFY COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT, AT
 ANY REASONABLE TIME.

- Building Owner _____
- Business Operator _____
- Date of Application _____

Application Received :

Date: _____ Signed: _____

Permit Issued:

Date: _____ Signed: _____

EFD Permit Type(s) :
 (see reverse)

Expiration Date :

TOTAL FEES DUE \$125.⁰⁰/tank

MAKE CHECK PAYABLE TO THE CITY
 OF EMERYVILLE.

FEES ARE ESTABLISHED THRU THE
 CITY OF EMERYVILLE MASTER FEE
 SCHEDULE ADOPTED JUNE 1, 1993.
 COPY AVAILABLE ON REQUEST.

Occupancy Group/Division:
 (per UBC Table 5A)

OCCUPANCY TYPE:

- Commercial Assembly
- Industrial Educational
- Residential H-class

Other Specify: _____

THIS PERMIT MUST BE AVAILABLE FOR INSPECTION AT ALL TIMES

REVOCATION OF PERMIT

THE CHIEF IS AUTHORIZED TO SUSPEND/REVOKE A PERMIT WHEN THE CHIEF HAS
 DETERMINED THAT SECTION 4.107, 1991 UFC HAS BEEN VIOLATED

POSTING OF PERMIT

PERMIT(S) SHALL BE KEPT ON THE PREMISES DESIGNATED AT ALL TIMES AND
 SHALL BE AVAILABLE FOR INSPECTION AT ANY TIME BY ANY PERSON(S) WHO
 ARE AUTHORIZED BY THE CHIEF OF THE EMERYVILLE FIRE DEPARTMENT

DATE INSPECTION NOTES/COMMENTS INSPECTOR



BAY AREA AIR QUALITY MANAGEMENT DISTRICT

939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
(415) 771-6000

REGULATION 8, RULE 40 NOTIFICATION FORM

Check Removal or Replacement of Tanks
 Excavation of Contaminated Soil

dated 6/18

SITE INFORMATION

Site Address 6655 Hollis Street

City, State Emeryville, CA

Zip 94608

Owner Name Loretta A McGrath Family Trust (McGrath Steel)

Specific location of project 2 Tanks located beneath sidewalk on 67th Street side

Tank Removal

Scheduled startup date 6/24/96

Vapors removed by:

Water wash

Vapor freeing (CO²)

Ventilation

Indicate below if an A/C was obtained for tank replacement:

Yes _____ No _____ If yes, A/C or P/O # _____

Contaminated Soil Excavation

Scheduled Startup Date _____

Stockpiles will be covered? Yes _____ No _____

Indicate below the method used to comply with Regulation 8, Rule 40, Section 402.4:

Check 8-40-301 8-40-302 (permit required)

A/C or P/O # _____

A/C = Authority to Construct P/O = Permit to Operate

What other public agency have you notified (e.g., Fire District, Hazardous Materials Department, City or County)?

Agency _____ Contact _____ Phone # () _____

BAAQMD # _____

CONTRACTOR INFORMATION

Name Subsurface Environmental Corp.

Contact Roxanne Harris

Address 1796 18th St., Ste. C

Phone (415) 863-8100

City, State, Zip San Francisco, CA 94107

CONSULTANT INFORMATION (if applicable)

Name

Contact

Address

Phone ()

City, State, Zip

FOR OFFICE USE ONLY

Date Received Fax:

Date Postmarked

Inspector No :

Date

By _____

Update Contact Name

Date

By _____

Update Contact Name

Date

By _____

APPENDIX B

MANIFESTS

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 24678

CUSTOMER
TERMINAL NO.
JOB NO.
DATE

FOR: ERICKSON, INC. TANK NO. 10-20

LOCATION: TERMINAL DATE: 5-1-77 TIME: 10:00

TEST METHOD NIPER GAS TAP 1004 (1977) LAST PRODUCT F

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, FLOCCED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS
WASTE FACILITY.
ERICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK
SHIPPED TO US FOR PROCESSING.

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 than 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.

Francis Chango
REPRESENTATIVE

TITLE

Dave Sato
INSPECTOR

DAY OR NIGHT
TELEPHONE
(510) 235-1393

CERTIFICATE CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 24671

CUSTOMER
JOB NO.

FOR: _____ TANK NO. _____

LOCATION: _____ DATE: _____ TIME: _____

TEST METHOD _____ LAST PRODUCT _____

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 2400 GALLON TANK CONDITION SAFE FOR FIRE

REMARKS: OXYGEN 20.9% LOWER EXPLOSIVE LIMIT LESS THAN 0.1%
ETICKSON, INC. HEREBY CERTIFIES THAT THE ABOVE NUMBERED TANK HAS BEEN
CUT OPEN, PROCESSED, AND THEREFORE DESTROYED AT OUR PERMITTED HAZARDOUS
WASTE FACILITY.
ETICKSON, INC. HAS THE APPROPRIATE PERMITS FOR, AND HAS ACCEPTED THE TANK
SHIPPED TO US FOR PROCESSING.

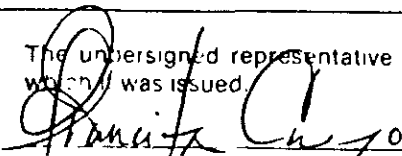
In the event of any physical or atmospheric changes affecting the gas-free conditions of the above tanks, or if in any doubt, immediately stop all hot work and contact the undersigned. This permit is valid for 24 hours if no physical or atmospheric changes occur.

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.

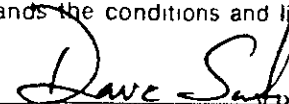
SAFE FOR FIRE: Means that in the compartment so designated (a) The concentration of flammable materials in the atmosphere is below 10 percent of the lower explosive limit, and that (b) In the judgment of the Inspector, the residues are not capable of producing a higher concentration than permitted under 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.



REPRESENTATIVE

TITLE



INSPECTOR

95780582
 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. CA400014844180582		Manifest Document No. 2		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address FORETTA A MC CRATH FAMILY TRUST 658 DOKAL DR DANVILLE CA 94526		4. Generator's Phone 510 596-2400		MCCRATH SKI 6555 HUNTS ST. EMERYVILLE CA 94662					
5. Transporter 1 Company Name Erickson, Inc.		6. US EPA ID Number CA D 0 0 9 4 6 6 3 9 2							
7. Transporter 2 Company Name		8. US EPA ID Number							
9. Designated Facility Name and Site Address Evergreen Oil Co. 6880 Smith Avenue Newark, CA 94560		10. US EPA ID Number CA D 9 8 0 8 8 7 4 1 8							
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) NON-RCRA Hazardous Waste Liquids Used Oil		12. Containers No. Type		13. Total Quantity					
		0 0 1 T T		00004		G			
15. Special Handling Instructions and Additional Information 24 Hour Contact <u>MARIE ROYANNE</u> & Phone <u>415-393-9343</u>									
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 DENES TURCSANYI FOR OWNER		Signature <i>[Signature]</i>		Month 07		Day 03		Year 96	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name SAM G. RODRIGUEZ		Signature <i>[Signature]</i>		Month 07		Day 03		Year 96	
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									
Signature <i>[Signature]</i>		Month		Day		Year			

DO NOT WRITE BELOW THIS LINE.

968622

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		Generator's US EPA ID No CA 000148441	Manifest Document No 80712	2. Page 1 of 2	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address LORETTA A. McGRATH FAMILY TRUST 638 RURAL DR. DANVILLE CA 94526			A. State Manifest Document Number 95780712		B. State Generator's ID
4. Generator's Phone (510) 596-2400			C. State Transporter's ID		
5. Transporter 1 Company Name ERICKSON INC.		6 US EPA ID Number CA 00094166392	D. Transporter's Phone (510) 235-1393		E. State Transporter's ID
7 Transporter 2 Company Name		8 US EPA ID Number	F. Transporter's Phone		G. State Facility's ID
9. Designated Facility Name and Site Address		10. US EPA ID Number	H. Facility's Phone (510) 235-1393		
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste Number
a. EMPTY STORAGE TANK(S) #18222, 18223		002 TE	04000		State 512 EPA/Other NONE
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other
J. Additional Descriptions for Materials Listed Above Qty. 2 Empty Storage Tank(s) # 18222, 18223 , Tank(s) have been inerted with 15 lbs. Dry Ice Per 1000 Gallon Capacity.			K. Handling Codes for Wastes Listed Above a. 01 b. c. d.		
15. Special Handling Instructions and Additional Information PLEASE AWAY FROM CHILDREN. ALWAYS WEAR GLOVES AND SAFETY GOGGLES. ROXANNE HARRIS (415) 393-9343					
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 DEVES TURCSANYI		Signature <i>[Signature]</i>		Month 07	Day 03
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature <i>[Signature]</i>		Month 07	Day 03
Printed/Typed Name KEVIN ROBINSON		Signature <i>[Signature]</i>		Month 07	Day 03
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day
Printed/Typed Name		Signature		Month	Day
19. Discrepancy Indication Space 2. PAGE 1 of 1					
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 <i>[Signature]</i>		Month 07	Day 08
				Year 96	

DO NOT WRITE BELOW THIS LINE.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 712822

Section I. GENERATOR

a. Generator Name: McGrath Steel b. Generating Location: Same as A
 c. Address: 105 Hollis Street d. Address: _____
San Francisco, CA 94602
 e. Phone No.: (510) 834-5082 f. Phone No.: _____
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____ h. Owner's Phone No.: _____

BFI WASTE CODE:

C	A	4	0	5	0	7	1	7	9	6	0	0	3	7
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

 Containers: _____
 Description of Waste: Gasoline Contaminated soil k. Quantity:

--	--	--	--	--	--

 Units:

--

 No.:

--	--

 TYPE:

--

- TYPE**
 DM - METAL DRUM
 DP - PLASTIC DRUM
 B - BAG
 BA - 6 MIL. PLASTIC BAG or WRAP
 T - TRUCK
 O - OTHER
- UNITS**
 P - POUNDS
 Y - YARDS
 M³ - CUBIC METERS
 Y³ - CUBIC YARDS
 O - OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

COAKY LUKAN Douglas Lukon 07118916
 Generator Authorized Agent Name Signature Shipment Date

Section II. TRANSPORTER

TRANSPORTER I
 a. Name: Rogers Eq
 b. Address: 54 TRANFORAN
 c. Driver Name/Title: Reggie Hawkins
 d. Phone No.: _____ e. Truck No.: K-91
 f. Vehicle License No./State: 9A46481
 g. Acknowledgement of Receipt of Materials:
Reggie H 0711996
 Driver Signature Shipment Date

TRANSPORTER II
 h. Name: _____
 i. Address: _____
 j. Driver Name/Title: _____
 k. Phone No.: _____ l. Truck No.: _____
 m. Vehicle License No./State: _____
 n. Acknowledgement of Receipt of Materials:
 Driver Signature Shipment Date

Section III. DESTINATION

a. Site Name: Visco Rd., Livermore c. Phone No.: _____
 b. Physical Address: _____ d. Mailing Address: _____
 e. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
MCC 0711996
 Name of Authorized Agent Signature Receipt Date

Section IV. ASBESTOS

a. Operator's Name: _____ b. Operator's Phone No.: _____
 c. Operator's Address: _____
 d. Special Handling Instructions and additional information: _____
 OPERATOR'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 government regulations.
 Operator's Name & Title: _____



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 712826

Section I

a. Generator Name: McCrath Steel b. Generating Location: Same as above
c. Address: 6665 Hollis Street d. Address: _____
Emeryville, CA 94607

e. Phone No.: (510) 834-5082 f. Phone No.: _____
If owner of the generating facility differs from the generator, provide:

g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE

C	K	4	5	0	7	1	7	9	6
---	---	---	---	---	---	---	---	---	---

0	0	0	5	7
---	---	---	---	---

j. Description of Waste: Diesel Contaminated k. Quantity: _____ Units: _____ No.: _____
Soil

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

BAG PLASTIC BAG
UNITS
METERS
YARDS

Generator Authorized Agent Name _____ Signature _____ Shipment Date _____

Section II

TRANSPORTER I
a. Name: _____
b. Address: _____
c. Driver Name/Title: _____
d. Phone No.: _____ e. Truck No.: _____
f. Vehicle License No./State: _____

TRANSPORTER II
h. Name: _____
i. Address: _____
j. Driver Name/Title: _____
k. Phone No.: _____ l. Truck No.: _____
m. Vehicle License No./State: _____

Acknowledgement of Receipt of Materials.
g. Driver Signature _____ Shipment Date

0	7	1	9	9	0
---	---	---	---	---	---

Acknowledgement of Receipt of Materials.
n. Driver Signature _____ Shipment Date

0	7	1	9	9	0
---	---	---	---	---	---

Section III

DESTINATION
a. Site Name: Vasco Rd., Livermore c. Phone No.: _____
b. Physical Address: _____ d. Mailing Address: _____
e. Discrepancy Indication Space: _____

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

f. Name of Authorized Agent _____ Signature _____ Receipt Date

--	--	--	--	--	--

Section IV

ASBESTOS (Generator completes and I, Operator, completes a)
a. Operator's Name: _____ b. Operator's Phone No.: _____
c. Operator's Address: _____
d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV.
If waste is NOT asbestos waste, complete only Sections I, II and III.

No. 712823

Section I

a. Generator Name: McGrathsteel b. Generating Location: SARE AS A
 c. Address: 6055 Hollis Street d. Address: _____
Mercuryville, CA 94606
 e. Phone No.: (510) 334-5322 f. Phone No.: _____
 If owner of the generating facility differs from the generator, provide:
 g. Owner's Name: _____ h. Owner's Phone No.: _____

i. BFI WASTE CODE

C	A	4	0	5	0	7	1	7	9	6
---	---	---	---	---	---	---	---	---	---	---

0	0	0	3	7
---	---	---	---	---

 Containers _____
 j. Description of Waste: Gasoline Contaminated k. Quantity _____ Units _____ No. _____ TYPE _____
Soil

TYPE	
DM	METAL DRUM
DP	PLASTIC DRUM
B	BAG
BA	5 MIL. PLASTIC BAG OF WRAP
T	TRUCK
O	OTHER

UNITS	
P	POUNDS
V	YARDS
M	CUBIC METERS
Y	CUBIC YARDS
O	OTHER

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR Part 268 and is no longer a hazardous waste as defined by 40 CFR Part 261.

Generator Authorized Agent Name _____ Signature [Signature] Shipment Date

7	1	8	9	6
---	---	---	---	---

Section II

TRANSPORTER I	TRANSPORTER II										
a. Name: <u>SUBSISTENCE ENVIRONMENTAL CORP</u>	b. Name: _____										
c. Address: <u>1796 - 18th St</u>	d. Address: _____										
e. Driver Name/Title: _____	f. Driver Name/Title: _____										
g. Phone No.: _____	h. Phone No.: _____										
i. Truck No.: _____	j. Truck No.: _____										
k. Vehicle License No./State: _____	l. Vehicle License No./State: _____										
m. Acknowledgement of Receipt of Materials											
n. Driver Signature: <u>[Signature]</u>	o. Driver Signature: _____										
p. Shipment Date: <table border="1"><tr><td>7</td><td>1</td><td>8</td><td>9</td><td>6</td></tr></table>	7	1	8	9	6	q. Shipment Date: <table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>					
7	1	8	9	6							

Section III

a. Site Name: VASSOGRD., Livermore g. Phone No.: _____
 b. Physical Address: _____ h. Mailing Address: _____
 e. Discrepancy Indication Space: _____
 I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.
 f. Name of Authorized Agent _____ Signature [Signature] Receipt Date

7	1	8	9	6
---	---	---	---	---

Section IV

a. Operator's Name: _____ b. Operator's Phone No.: _____
 c. Operator's Address: _____
 d. Special Handling Instructions and additional information: _____

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified,

APPENDIX C

LABORATORY REPORTS

**SOIL SAMPLE
ANALYTICAL RESULTS**

TABLE 1

Sample Number Date and Location	TPH(g)	TPH(d)	MTBE	B	T	E	X	Lead
001-T1 - 7/3/96 east bottom deisel tank 8 feet 6 inches bgs	N/A	340	N/A	4.6	33	30	170	N/A
002-T1 - 7/3/96 west sidewall deisel tank 8 feet bgs	N/A	140	N/A	0.1	0.012	0.073	0.73	N/A
003-T2 - 7/3/96 west bottom gasoline tank 9 feet bgs	710	N/A	9.7	1.5	0.52	8.7	11	0.43
004-T2 - 7/3/96 east bottom gasoline tank 9 feet bgs	1300	N/A	35	15	3.5	30	72	0.32
005-SP1 - 7/3/96 stockpile deisel tank	N/A	320	ND	ND	ND	ND	0.044	N/A
006-SP2 - 7/3/96 stockpile gasoline tank	260	N/A	4.7	0.24	2.4	1.2	19	0.25

Please refer to the attached original laboratory results.

All analytical results on this, and Table 2 are reported in parts per million (ppm).

N/A = Not Applicable

ND = Non Detect

**SOIL SAMPLE
ANALYTICAL RESULTS**

TABLE 2

Sample Number	TPH(g)	TPH(d)	MTBE	B	T	E	X
Date and Location							
007-T2 - 7/11/96 north sidewall gasoline tank pit 9 feet 5 inches bgs	450	N/A	27	2.1	22	12	71
008-T2 - 7/11/96 east sidewall gasoline tank pit 9 feet 5 inches bgs	49	N/A	9.1	2.1	0.19	1.1	14
009-T2 - 7/11/96 south sidewall gasoline tank pit 11 feet bgs	19	N/A	12	2.5	0.041	0.66	0.069
010-T2 - 7/11/96 west sidewall gasoline tank pit 10 feet 1 inch bgs	37	N/A	71	3.3	3.7	2.1	4.1
011-T2 - 7/11/96 floor, gasoline tank pit 12 feet bgs	15	N/A	17	0.85	0.4	0.57	0.74
012-T1 - 7/11/96 north sidewall deisel tank pit 9 feet bgs	N/A	16	N/A	0.23	0.21	0.49	2.4
013-T1 - 7/11/96 west sidewall deisel tank pit 10 feet bgs	N/A	400	N/A	0.1	0.98	4	23
014-T1 - 7/11/96 east sidewall deisel tank pit 10 bgs	N/A	15	N/A	0.87	1.7	0.83	4.6
015-T1 - 7/11/96 floor,deisel tank pit 12 feet bgs	N/A	340	N/A	0.14	0.64	1.9	11
016-T1 - 7/11/96 south sidewall deisel tank pit 10 feet 6 inches bgs	N/A	870	N/A	3.2	9.6	23	13

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

07/10/96

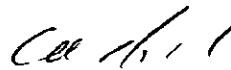
Dear Roxanne:

Enclosed are:

- 1). the results of 6 samples from your # 960241; McGrath Steel Co. project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,



Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
 Tele: 510-798-1620 Fax: 510-798-1622

Subsurface Environmental 1796 18th Street, Suite C San Francisco, CA 94107	Client Project ID: # 960241; McGrath Steel Co.	Date Sampled: 07/03/96
	Client Contact: Roxanne Harris	Date Received: 07/03/96
	Client P.O:	Date Extracted: 07/03-07/05/96
		Date Analyzed: 07/05/96

Lead*

EPA analytical methods 6010/200.7, 239.2*

Lab ID	Client ID	Matrix	Extraction ^o	Lead*	% Recovery Surrogate
66555	003-T2	S	STLC	0.43	NA
66556	004-T2	S	STLC	0.32	NA
66558	006-SP2	S	STLC	0.25	NA
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLIC	3.0 mg/kg		
	W	TTLIC	0.005 mg/L		
	--	STLC,TCLP	0.2 mg/L		

* soil and sludge samples are reported in mg/kg, and water samples and all STLC & TCLP extracts in mg/L
 * Lead is analysed using EPA method 6010 (ICP) for soils, sludges, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples
^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLIC), 3040(organic matrices,TTLIC), 3050(solids,TTLIC), STLC from CA Title 22
 * surrogate diluted out of range, N/A means surrogate not applicable to this analysis
 * reporting limit raised due matrix interference
 i) liquid sample that contains greater than ~ 2 vol. % sediment, this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations

SUBSURFACE ENVIRONMENTAL CORP.

1796 18th Street, Suite C
 San Francisco, CA 94107
 Tele: (415)863-8100 Fax: (415)863-8156

CHAIN OF CUSTODY RECORD

Owner: Loretta A. McGrath Family Trust
 Address: 658 Doran Drive Danville CA. 94526
 Phn: (510) 596-2400 Fax: _____

Sampler: Robert James Cox
 Sampler Signature: Robert James Cox

Project Location: McGrath Steel Co. 6655 Hollis St. Emeryville, CA
 Project #: 960241
 Bill To: Subsurface Env. Corp

TURN AROUND TIME: 24 Hours

ANALYSIS REQUEST

BTEX	TPH as Diesel	Total Petroleum Oil & Grease	Total Petroleum Hydrocarbons <u>as Gasoline</u>	Lead STC	RCI	Other: <u>MTBE</u>
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Laboratory Number	Sample ID Number	Sampling		# of Containers	Type Containers	Matrix				Method Preserved			FIELD REMARKS:	BTEX	TPH as Diesel	Total Petroleum Oil & Grease	Total Petroleum Hydrocarbons <u>as Gasoline</u>	Lead STC	RCI	Other: <u>MTBE</u>			
		Date	Time			Water	Soil	Sludge	Other	HCL	HNO3	ICE											
	001-T1	7-3-96	12:05	1	BT	X					X		East End Tank 1 at 8 1/2 Feet	X	X							66553	
	002-T1	7-3-96	12:10	1	BT	X					X		West Sidelabel Tank 1 at 8 Feet	X	X								66554
	003-T2	7-3-96	12:35	1	BT	X					X		West End tank 2 at 9'	X		X	X						66555
	004-T2	7-3-96	12:45	1	BT	X					X		East End Tank 2 at 9'	X		X	X						66556
	005-SP1	7-3-96	1:05	4	BT	X					X		4 Point Stock Pile Material From Tank 1	X	X								66557
	006-SP2	7-3-96	1:15	4	BT	X					X		4 Point Stock Pile Material From Tank 2	X		X	X						66558

RELINQUISHED BY: <u>Robert James Cox</u>	Date: <u>7-3-96</u>	Time: <u>11:25</u>	RECEIVED BY: <u>Loretta C. Pimental</u>
RELINQUISHED BY: <u>Robert James Cox</u>	Date: <u>7-3-96</u>	Time: <u>6:22</u>	RECEIVED BY: <u>Lucretia Pimental</u>
RELINQUISHED BY:	Date:	Time:	RECEIVED BY:

NOTES:

ICE/T* PRESERVATIVE
 GOOD CONDITION APPROPRIATE
 HEAD SPACE ABSENT CONTAINERS

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553
Tele: 510-798-1620 Fax: 510-798-1622

07/19/96

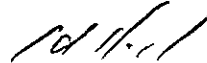
Dear Roxanne:

Enclosed are:

- 1). the results of 10 samples from your McGrath Steel, 6655 Hollis St. project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,



Edward Hamilton, Lab Director

Subsurface Environmental 1796 18th Street, Suite C San Francisco, CA 94107	Client Project ID: McGrath Steel, 6655 Hollis St.	Date Sampled: 07/11/96
	Client Contact: Roxanne Harris	Date Received: 07/12/96
	Client P.O:	Date Extracted: 07/12/96
		Date Analyzed: 07/12-07/13/96

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & 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) ⁺	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	% Rec. Surrogate
66752	007-T2	S	450,a	27	2.1	22	12	71	98
66753	008-T2	S	49j	9.1	2.1	0.19	1.1	1.4	100
66754	009-T2	S	19,a	12	2.5	0.041	0.66	0.069	104
66755	010-T2	S	37,a	71	3.3	3.7	2.1	4.1	103
66756	011-T2	S	15,a	17	0.85	0.40	0.57	0.74	98
66757	012-T1	S	---	---	0.23	0.21	0.49	2.4	99
66758	013-T1	S	---	---	0.10	0.98	4.0	23	95
66759	014-T1	S	---	---	0.87	1.7	0.83	4.6	100
66760	015-T1	S	---	---	0.14	0.64	1.9	11	92
66761	016-T1	S	---	---	3.2	9.6	23	130	96
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	5.0	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, and all TCLP extracts in mg/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~ 5 vol. % sediment; j) no recognizable pattern.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 07/11/96-07/12/96

Matrix: Soil

Analyte	Concentration (mg/kg) Sample (#66181)			Amount Spiked	% Recovery		
	MS	MSD	MSD		MS	MSD	RPD
TPH (gas)	0.000	1.959	1.958	2.03	97	96	0.1
Benzene	0.000	0.198	0.208	0.2	99	104	4.9
Toluene	0.000	0.196	0.206	0.2	98	103	5.0
Ethylbenzene	0.000	0.202	0.206	0.2	101	103	2.0
Xylenes	0.000	0.594	0.614	0.6	99	102	3.3
TPH (diesel)	0	294	293	300	98	98	0.2
TRPH (oil and grease)	0.0	23.7	23.3	20.8	114	112	1.7

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

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

20F2

6755ASE126

SUBSURFACE ENVIRONMENTAL CORP.
1796 18th Street, Suite C
San Francisco, CA 94107
Tele: (415)863-8100 Fax: (415)863-8156

CHAIN OF CUSTODY RECORD

ANALYSIS REQUEST

Owner: McGrath steel

Sampler: Roxanne Harris

Address: _____

Sampler Signature: 

Phn: _____ Fax: _____

Project Location: 6655 Hollis street

TURN AROUND TIME: Standard

Project #: _____


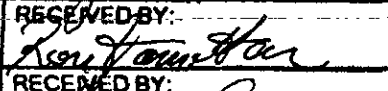

Bill To: SUBSURFACE

Laboratory Number	Sample ID Number	Sampling		# of Containers	Type Containers	Matrix				Method Preserved			FIELD REMARKS:	BTEX	TPH as Diesel	Total Petroleum Oil & Grease	Total Petroleum Hydrocarbons	Lead-Sn-Pb BTEX	RCI	Other:	
		Date	Time			Water	Soil	Sludge	Other	HCL	HNO3	ICE									
	014-T1	7-11-96	11:00	1	BT		✓						✓								
	015-T1	7-11-96	11:02	1	BT		✓						✓								
	016-T1	7-11-96	11:06	1	BT		✓						✓								

66759

66760

66761

RELINQUISHED BY: 	Date: 7-11-96	Time: 3:55	RECEIVED BY: Suzanne Moeck
RELINQUISHED BY: Suzanne Moeck	Date: 7-22-96	Time: 11:00A	RECEIVED BY: 
RELINQUISHED BY: 	Date: 7/22/96	Time: 1:45	RECEIVED BY: Heidi Riva

NOTES:

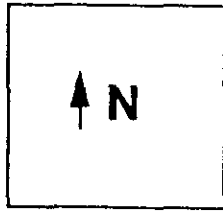
ICE/T GOOD CONDITION HEAD SPACE ABSENT

PRESERVATIVE APPROPRIATE CONTAINERS

WAS O&G METALS OTHER

APPENDIX D

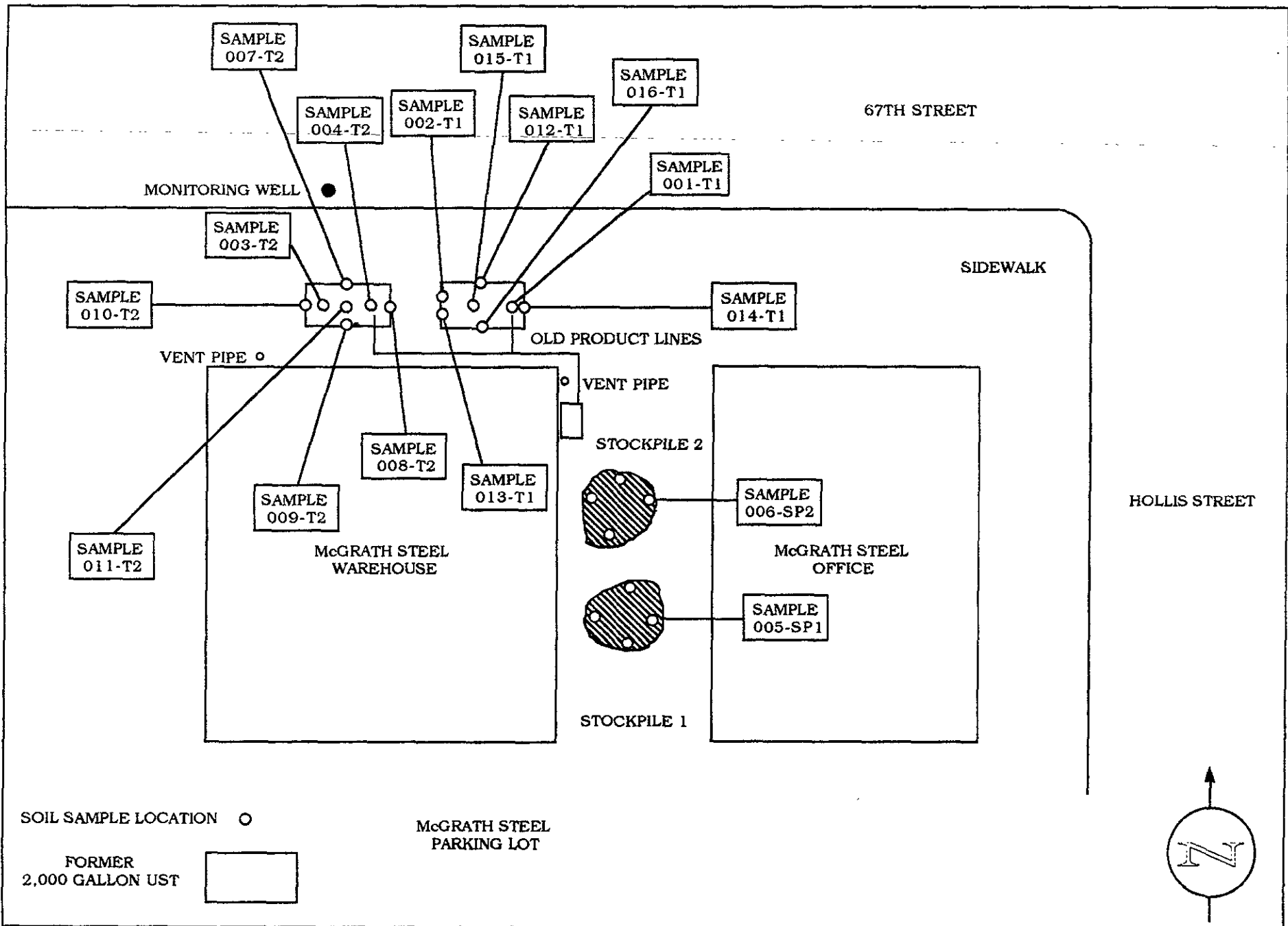
PHOTOGRAPHS & MAPS



SUBSURFACE
ENVIRONMENTAL
PROJECT #960241

MCGRATH STEEL
6655 HOLLIS STREET
EMERYVILLE, CA 94608

SITE MAP, JUNE 1996



Not to scale	Project # 960241	September, 1996	SOIL SAMPLE MAP 6655 HOLLIS STREET EMERYVILLE, CA 94608	Figure 1
Subsurface Environmental Corp.				



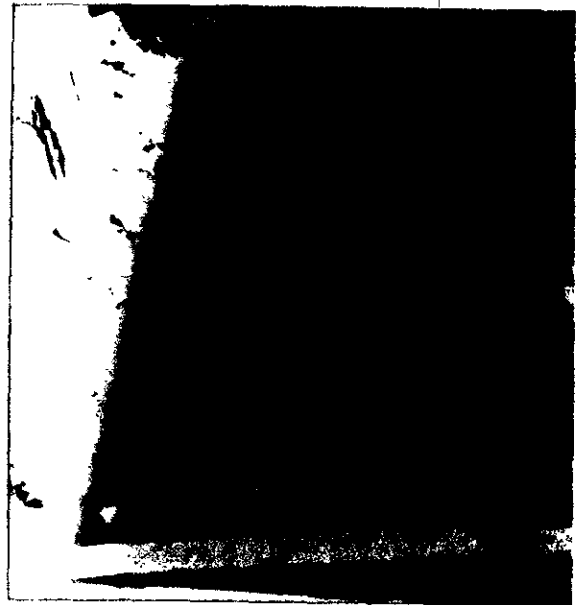
TANK # 1
Diesel 1 month
McGrath Steel



Tank # 1 Execution
McGrath Steel



TANK # 2 Gas
McGrath Steel



TANK # 2 Execution
McGrath Steel