PACCAR Automotive, Inc.

Corporate Headquarters

1400 N. Fourth Street
Renton, WA 98055
(206) 251-7600
Fax (206) 251-7763

January 22, 1993

Mr. Ron Owcarz
Alameda County Environmental Health Department
Hazardous Material Division
80 Swan Way, Room 200
Oakland, CA 94621

RE: Hydraulic Hoist Removal Report
Grand Auto Store, 2512 107th Avenue, Oakland, California

Dear Mr. Owcarz,

Please find enclosed a copy of the Hydraulic Hoist Removal Report, Former Grand Auto Store, 2512 107th Avenue, Oakland, California 94603. Five hydraulic hoists were removed from the store on December 23 and 24, 1992. There was no evidence of significant soil contamination, as either large visible stains or strong residual odors, were noted in the hoist pits backfill or native soils. Some soil staining near the top of the reservoir pits were observed.

Ten samples were taken, one from the bottom of each hoist and reservoir pit. The samples were analyzed for total petroleum hydrocarbons in both the diesel and motor oil ranges (TPH-d and TPH-m). Total petroleum hydrocarbon in the motor oil range was present in all five samples collected from the reservoir pits and one from the hoist pit. Concentrations of petroleum hydrocarbons in the diesel fuel range were not detected in all 10 samples.

Based on the laboratory test results, it appears that hydraulic fluids may have escaped from the reservoirs and/or piping confinement and migrated into the subsurface soils. It is the opinion of AllWest that the extent of the hydraulic oil impacted soil is limited and poses no immediate threat to groundwater. Soil contamination may be readily remediated by over-excavation.

AllWest will be preparing a work plan that addresses the over-excavation remediation method. Upon your approval of the plan Paccar Automotive, Inc. and AllWest will conduct the remediation. Once the remediation is, additional verification samples will be taken by AllWest. The results will be submitted to your office to obtain a closure sign-off for a clean closure.

Please contact me at (510) 577-2569 if you have any questions concerning the hydraulic hoist removal report or proposed work plan. Thank you for your assistance in this matter.

Sincerely,

Raymond Elliott, CHMM, REA
Environmental Manager

enclosure

cc: Mr. L. Ching - AllWest

Distribution Centers

7200 Edgewater Drive
Oakland, CA 94621
(510) 577-2500
Fax (510) 430-2576

1701 Pike Street NW
Auburn, WA 98001
(206) 351-3200
Fax (206) 931-3884

GRAND Auto Supply Tires & Service — ALS AUTO SUPPLY

AllWest Environmental, Inc.

Specialists in Physical Due
Diligence and Remedial Services

One Sutter Street, Suite 600
San Francisco, Ca 94104
Tel 415.391.2510
Fax 415.391.2008

HYDRAULIC HOIST REMOVAL REPORT

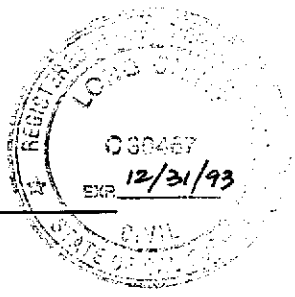
Former Grand Auto Store
2512 107th Avenue
Oakland, California 94603

PREPARED FOR:

Mr. Raymond Elliott, CHMM, REA
PACCAR Automotive, Inc.
7200 Edgewater Drive
Oakland, California 94621

ALLWEST PROJECT 92198.24
January 11, 1993

PREPARED BY:



Long Ching, P.E.
Senior Project Manager

REVIEWED BY:

Gary Farthing, R.E.A.
Senior Associate

AllWest

TABLE OF CONTENTS

AllWest

EXECUTIVE SUMMARY

AllWest Environmental was retained by *PACCAR Automotive, Inc.* to coordinate the removal of five underground hydraulic hoists, fluid reservoirs, associated piping, and the contained hydraulic fluid. The hoists were located in a former *Grand Auto Store* at 2512 107th Avenue in Oakland, California and were used to lift vehicles for service purposes.

Five underground hydraulic hoists, along with the associated piping and fluid reservoirs, were removed by *Stokley Construction* of Tracy, California on December 23 and 24, 1992. The exterior of the hoists and reservoirs appeared to be intact with no visible dents or holes. Minor corrosions were observed on the exterior of most reservoirs. No evidence of significant soil contamination, as either large visible stains or strong residual odors, was noted in the hoist pits backfill or native soils. Some soil staining near the top of the reservoir pits were observed.

A total of ten (10) soil samples, one from the bottom of each hoist and reservoir pit, were collected by AllWest and submitted to *California Laboratory Services* under chain-of-custody protocol for analysis of total petroleum hydrocarbons in both the diesel and motor oil ranges (TPH-d & TPH-m).

The chemical analyses detected the presence of motor oil range petroleum hydrocarbons in all five of the samples collected from the reservoir pits and one from the hoist pit. Concentrations of petroleum hydrocarbons in the diesel fuel range above the laboratory reporting limits were not detected in all 10 soil samples.

Based on the laboratory test results, it appears that hydraulic fluids may have escaped from the reservoir and/or piping confinement and migrated into the site's subsurface soils. It is AllWest's opinion that the extent of hydraulic oil impacted soil is limited and poses no immediate threat to groundwater. Soil contamination may be readily remediated by over-excavation.

AllWest

Hydraulic Hoist Removal Report
2512 107th Avenue
Oakland, California

I. INTRODUCTION

This report presents the results of closure activities associated with the removal of five underground hydraulic hoists, reservoirs, and associated piping formerly located at 2512 107th Avenue in Oakland, California. Included in this report are (1) a description of the site's underground hydraulic hoists, (2) a review of site activities and observations associated with the hoist closure, (3) an explanation of sampling procedures and locations, and (4) a copy of certified analytical reports, chain-of-custody record, and documentation on the disposition of the hoists.

II. SCOPE OF WORK

AllWest's hoist closure project management services included:

1. Request a written proposal and cost estimate for hoist removal and site restoration from at least three hoist removal contractors;

2. Qualify a hoist removal contractor;

3. Coordinate the submittal of contract documents to *PACCAR Automotive*;

4. Act as overall Project Manager for hoist removal;

5. Monitor the hoist removal and collect soil samples for submittal to a State DOHS certified laboratory for minimum verification analysis; and,

6. Prepare a formal report to describe work performed and present the results of laboratory testing.

III. SITE DESCRIPTION

The subject site is located within a neighborhood shopping center at the southeast corner of the intersection of 107th Avenue and MacArthur Boulevard in Oakland, California. It is about 6 miles southeast of downtown Oakland, between Highways I-580 and I-880. The surrounding properties are primarily residential with some commercial developments along MacArthur Boulevard. A Site Vicinity Map is presented in Figure 1 of this report.

The shopping center building that housed *Grand Auto Store* is at the southern half of the property. The former underground hydraulic hoists were located in the southwestern part of the building in the former service area of the store. The hoists were used to lift vehicles for repair or service. The locations of the hoists in relation to the building floor plan are shown on the Site Plan, Figure 2.

A. Previous Subsurface Investigations

There was no known previous subsurface investigation work performed at the subject property. No past records of soil and groundwater conditions at the subject site were available at the time of hoist removal.

B. Geologic Setting

The subject property is located on the east shore of San Francisco Bay at the foothills of the San Leandro Hills. The topography of the site area can be characterized as gentle rolling hills with a westward slope. Bedrock units which underlie the site area include Cretaceous and Cenozoic sedimentary rocks. Soils above the bedrocks are Quaternary alluvial deposits of sandy silt and silty clay. According to available literature from San Francisco Regional Water Quality Control Board, the depth to first groundwater table at the site area is about 20 feet below the ground surface with some seasonal fluctuation.

IV. HYDRAULIC HOIST REMOVAL

A. Removal Activities and Observations

Stokley Construction, a licensed contractor of Tracy, California, provided the contractual services associated with the hoist removal. The excavation activities commenced on December 23, 1992. The concrete floor around the hoist was first jack-hammered and then removed to expose the underlying soil and the buried hoist

cylinder. Surrounding soils of the underground hoists were then excavated to approximately 2 feet below grade level to reveal piping connections. The associated piping was disconnected and capped, and then the hoists pulled out of their individual pits. The fluid reservoirs were also removed by the same procedures. Abandoned pipes were removed from underneath the slab after the hoists and reservoirs had been pulled. The entire hoist removal operation was completed on the same day.

There was no regulatory oversight for the hoist closure activities because reservoir tanks of the hydraulic hoists are less than 100 gallons in capacity and not regulated as underground storage tanks. No environmental permit was required by the Alameda County Health Service Agency Hazardous Material Division. However, an AllWest engineer was on site to observe and record the hoist excavation process. Photographs were taken as part of the documentation process. Selected site photographs during hoist removal are presented in Appendix A of this report.

The hydraulic hoists' structures were of steel construction, measured about 18 inches in diameter and 8.5 feet long, and wrapped in yellow adhesive plastic plumbing tape. The fluid reservoirs were also of steel construction; however, none of the reservoirs had protective wrapping. There were two different types of reservoirs encountered at the site. One type, about 2 feet in diameter and 3 feet long, was found at locations T-1, T-2, and T-5 (refer to Figure 2). The other type, found at locations T-3 and T-4, was about 16 inches in diameter and 6 feet long.

The excavated hoists appeared structurally sound, with most of the protective wrapping still intact. The exterior of all reservoirs appeared rusty due to the lack of protective wrapping. All the hoists and reservoirs showed no indications of severe corrosion, pits, or scaling. No visible holes or cracks were noted.

There was no visible hydraulic fluid staining observed around the exterior of hoists and reservoirs. No petroleum odors were noted emanating from soils during the course of the excavation of those vessels. Backfill soils around the hoists were observed mostly to be clean and dry. Some discolorations were noted in the soils around reservoirs T-1 through T-4.

B. Hoist Disposal and Transport

The hoists and reservoirs were removed from the site by *Stokley Construction* as non-hazardous materials. The hoists and reservoirs were transported to an off-site location where they were drained of hydraulic fluid, rinsed, and disposed as scrap metal. A copy of the hoist/reservoir disposal record provided by *Stokley Construction* is presented in Appendix B.

C. Soil Sampling for Minimum Verification Analysis

AllWest performed soil sample collection activities for minimum verification analyses (MVA). *California Laboratory Services* of Rancho Cordova, California, a California Department of Health Services (DOHS) certified analytical laboratory, provided analytical services. A total of ten (10) discreet soil samples, one from the bottom of each hoist/reservoir pit, were collected by AllWest personnel on December 24, 1992. The locations of the collected soil samples are shown Figure 3, Sample Location Map.

D. Sampling Protocol

An AllWest engineer conducted the soil sampling associated with the hoist removal. Soil samples were collected from native soils below the base of each hoist/reservoir. Sample depths at hoist and reservoir pits was approximately 9 feet and 4 to 7 feet, respectively. Backfill material and soils sloughing into the pit during hoist/reservoir removal were first removed by a backhoe mounted auger to expose native soil. Each soil sample was then obtained in the native soils.

Samples were obtained by driving a stainless steel sampler containing brass tubes into the exposed native soil using a sliding hammer. After the retrieval of the sampler, the filled tube was removed and examined. Both ends of the tube were then covered with teflon sheeting, capped by plastic end caps, and wrapped with silicon tape. The sealed soil sample was then appropriately labelled and immediately stored on ice. Following sampling activities, the samples were immediately transported and submitted to a DOHS certified laboratory under appropriate chain-of-custody protocol.

V. MINIMUM VERIFICATION ANALYSES

Samples collected for minimum verification analyses were analyzed by *California Laboratory Services*. A total of ten discreet soil samples were collected for the purpose of minimum verification analysis (MVA). Analyses performed on each sample are total petroleum hydrocarbons in diesel range (TPH-d) and motor oil range (TPH-m) by modified EPA Method 8015/3550. These analyses were selected to cover mid- to high-boiling point range of petroleum hydrocarbons that characterize hydraulic oil.

All the samples analyzed contained no detectable concentrations of TPH-d. However, detectable concentrations of petroleum hydrocarbons in the motor oil range were found in all the samples from reservoir pits and one from the hoist pit. The concentration levels varied from 100 parts per million (ppm) at hoist H-5 to 10,000

ppm at reservoir T-3. The following Table 1 summarizes the results of Minimum Verification Analyses for the hoist closure. Certified analytical reports and chain-of-custody documentation are presented in Appendix C.

TABLE 1

SUMMARY OF ANALYTICAL RESULTS

Sample No.	TPH-d	TPH-m
H-1	ND	ND
H-2	ND	ND
H-3	ND	ND
H-4	ND	ND
H-5	ND	100
T-1	ND (500)	3500
T-2	ND (1000)	6800
T-3	ND (1000)	10000
T-4	ND (1000)	6400
T-5	ND (500)	2300

Notes:
1. All results are in mg/Kg, equivalent to parts per million (ppm).
2. "ND" stands for non-detected at the laboratory reporting limit.
3. Unless indicated in parentheses, laboratory reporting limits for TPH-d and TPH-m are 10 ppm and 20 ppm, respectively.

VI. SOIL STOCKPILING

Soils removed as overburden and backfill from the hoist/reservoir pit were temporarily stockpiled inside the building on plastic sheets. These soils were stockpiled for eventual disposal pending analytical results and regulatory approval.

VII. DISCUSSIONS AND CONCLUSIONS

Certified analytical results for minimum verification analysis indicate that none of the soil samples contain detectable concentrations of petroleum hydrocarbons in the diesel fuel range (mid- boiling point). Detectable concentrations of petroleum hydrocarbons in the motor oil range (high boiling point) were found in six out of the ten soil

samples submitted. The detection of high boiling point petroleum hydrocarbons (motor oil range) without mid- to low-boiling point hydrocarbons (diesel range) indicate only hydraulic fluid is involved.

Of the five soil samples collected from the hoist pits, four were non-detect and only one (H-5) with 100 ppm concentration. All the hoists were observed well wrapped with no signs of corrosion or puncture. Laboratory data and field observations indicate the hoists were structurally sound with no leakage. The low concentration of hydrocarbon in soil sample from hoist H-5 is most likely from minor piping deterioration. The extent of impact is expected to be very small.

All five samples from reservoir pits resulted detectable concentration of high boiling point petroleum hydrocarbons. The level of concentrations range from 2,300 ppm to 10,000 ppm. The magnitude of concentration indicates hydraulic fluids did have escaped from the reservoir confinement and impacted site soils. Based on observed soil conditions of the reservoir pits, the hydraulic oil leakage is most likely from deterioration of pipe couplings rather than from structural failure of the reservoir vessel.

Analytical data and field observations indicate site soils immediately adjacent to underground hydraulic fluid reservoirs were impacted by hydraulic fluids. Considering the low mobility of the hydraulic fluid, AllWest believes the extent of soil impacted is limited. Since the impacted soils are mostly at depths between 4 and 7 feet below ground surface (BGS) and the groundwater level at site area is reportedly at 20 feet BGS or more, it is unlikely that the escaped hydraulic oils have reached groundwater. In our opinion, there may be no threat to groundwater quality if the soil contamination is remediated in the near future.

The hydraulic fluid impacted soils can be readily mitigated by over-excavating the currently open hoist/reservoir pits and removing additional soil from the pit bottom and sidewalls. To demonstrate the effectiveness of remediation, verification sampling and testing should be performed after the completion of over-excavation. It is highly advisable that a work plan outlining the over-excavation objective and procedure be prepared and approved by the local regulatory agency prior to commencing the actual excavation work so that regulatory notification will not be an issue at a later date.

VIII. RECOMMENDATIONS

AllWest makes the following recommendations:

1. Forward a copy of this report to the local regulatory agency in Alameda County to inform them of the hoist removal process and the results of minimum verification analyses. The address of local regulatory agency is:

   Mr. Ronald Owcarz
   Alameda County Environmental Health Department
   Hazardous Material Division
   80 Swan Way, Room 200
   Oakland, California 94621

2. Prepare a work plan to outline the proposed over-excavation remedial method. Submit the work plan to the above regulatory agency for approval.

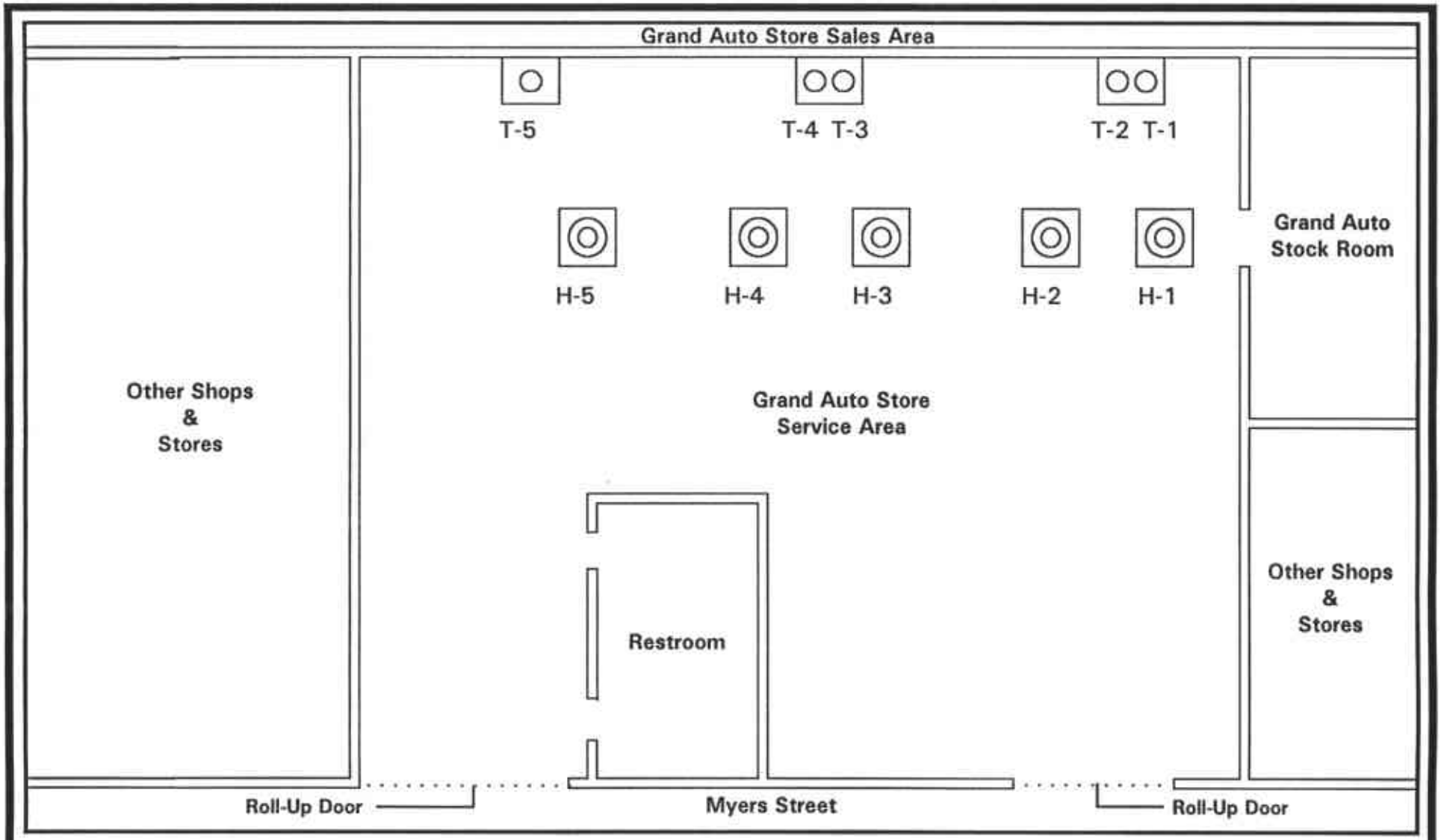
3. Implement the remedial work plan as approved by the regulatory agency. Obtain closure sign-off from the regulatory agency after the completion of the remedial work.

IX. LIMITATIONS

AllWest has prepared this report for the client's exclusive use for this particular project and in accordance with generally accepted practices at the time of hoist closure. No other warranties, either expressed or implied, are made as to the professional advise offered. The user of this report should be cognizant that strict interpretations of Federal and California laws by regulatory agencies may hold a landholder of property liable for all costs of cleaning or remediating toxic contamination.

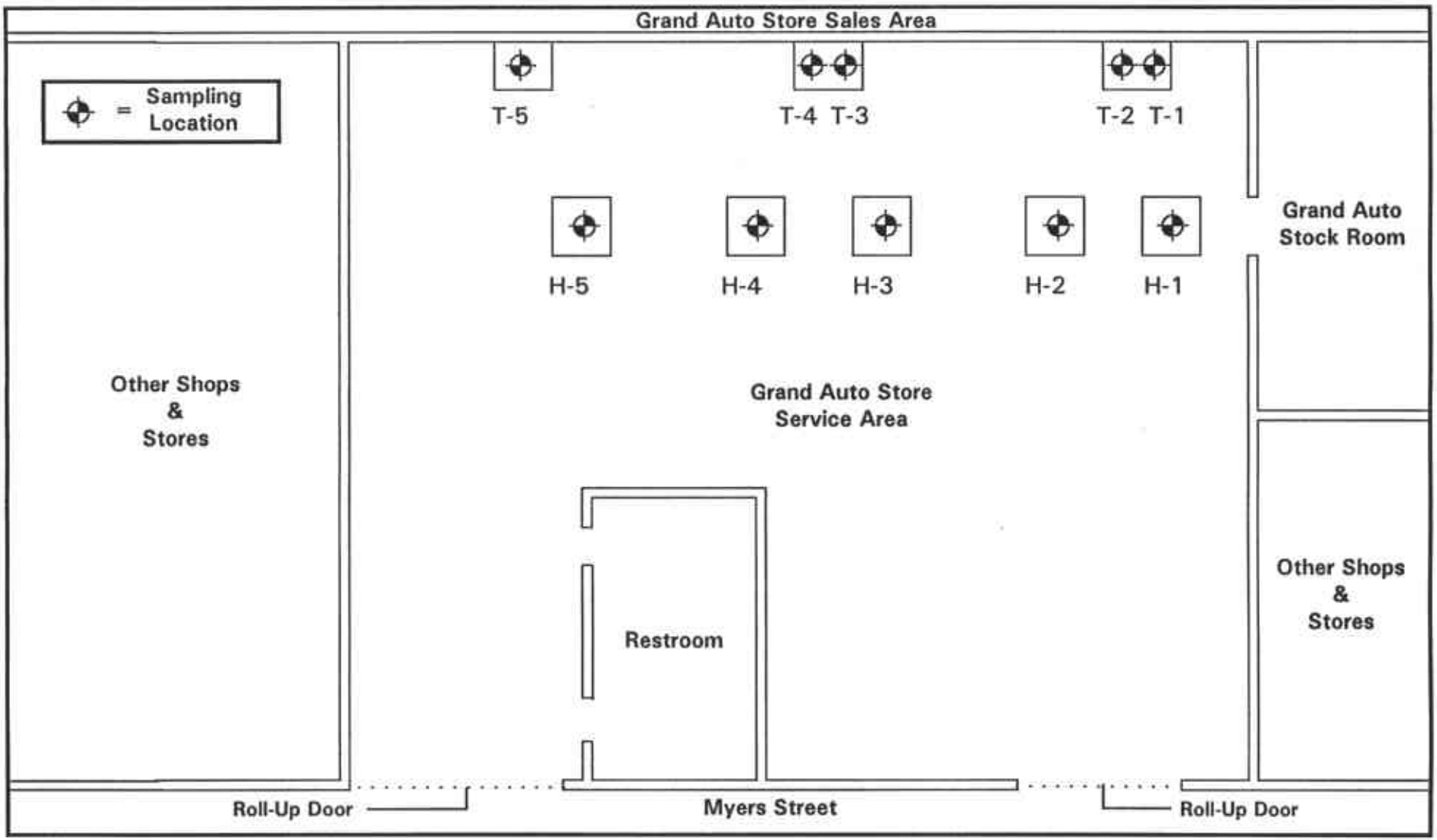
FIGURES

AllWest AllWest Environmental, Inc.	January 1993	**Site Location Map**	Project 92198.24	Figure 1
	2512 107th Avenue, Oakland, California			Source CA DOT



AllWest
AllWest Environmental, Inc.

January 1993	**Site Plan**	Project 92198.24	Figure 2
2512 107th Avenue, Oakland, California			Source AllWest



AllWest
AllWest Environmental, Inc.

January 1993	**Sampling Locations**	Project 92198.24	Figure 3
2512 107th Avenue, Oakland, California			Source AllWest

APPENDIX A

PHOTOGRAPH # 1

View of the site condition prior to hoist removal. The concrete slab around hoist No. H-5 was being excavated to expose the top of hoist. The reservoir pit No. T-5 and associated piping are visible in the background

PHOTOGRAPH # 2

View of the pit for reservoir Nos. T-3 and T-4. The top of reservoir were exposed after the partial removal of surrounding soil.

PHOTOGRAPH # 3

View of the pit for reservoir Nos. T-1 and T-2 prior to removal. Piping were disconnected to allow the reservoir be removed individually.

PHOTOGRAPH # 4

View of hoist No. H-1 being removed from the hoist pit.

PHOTOGRAPH # 5

View of hoist No. H-2 after removal. Showing the near intact exterior wrapping of hoist No. H-2.

PHOTOGRAPH # 6

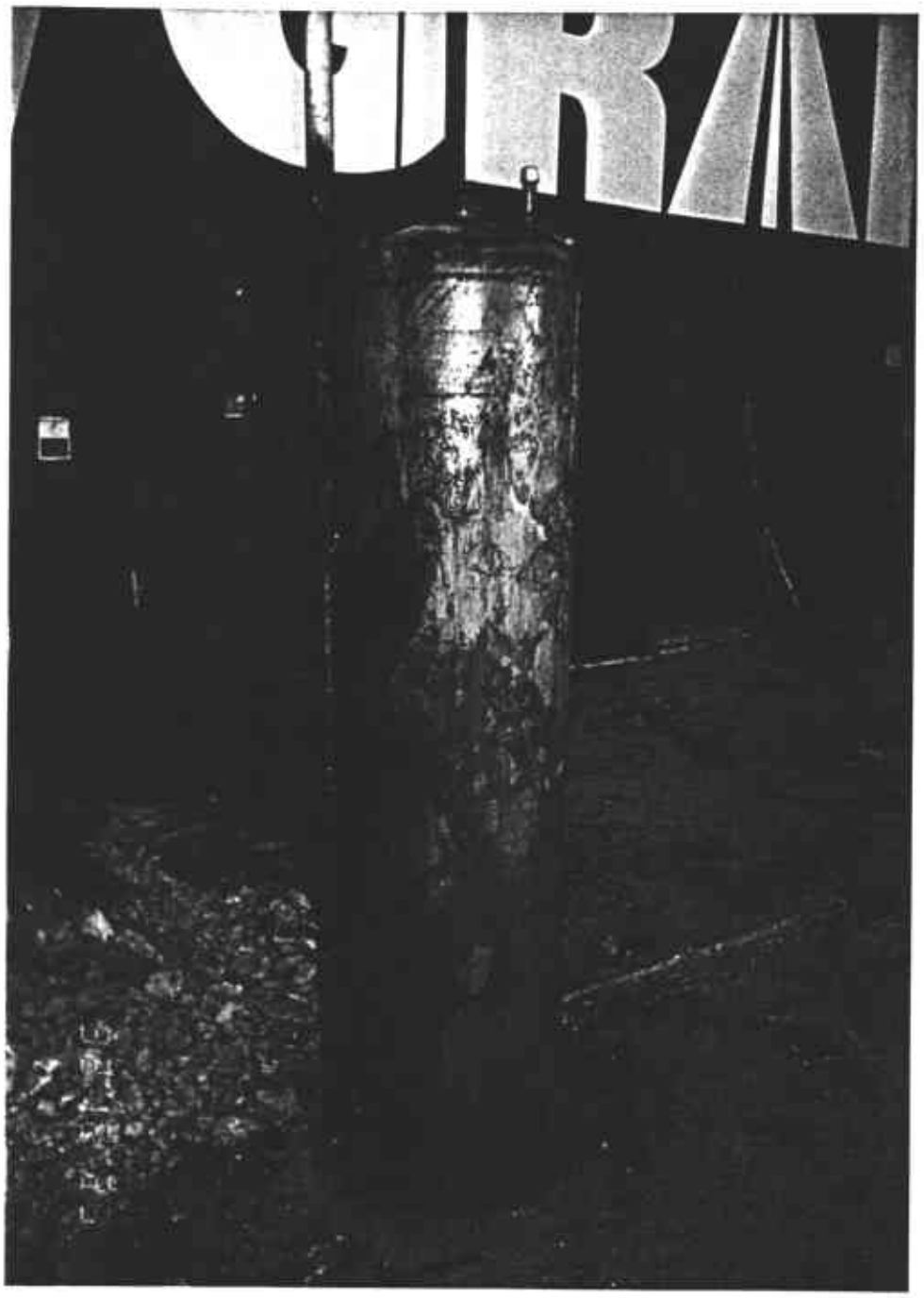
View of hoist No. H-3 after being pulled out of the ground.

PHOTOGRAPH # 7

View of hoist No. H-5 after removal. The over-flow pipe of H-5 was separated from the hoist cylinder during removal because the pipe was not properly bolted onto the cylinder.

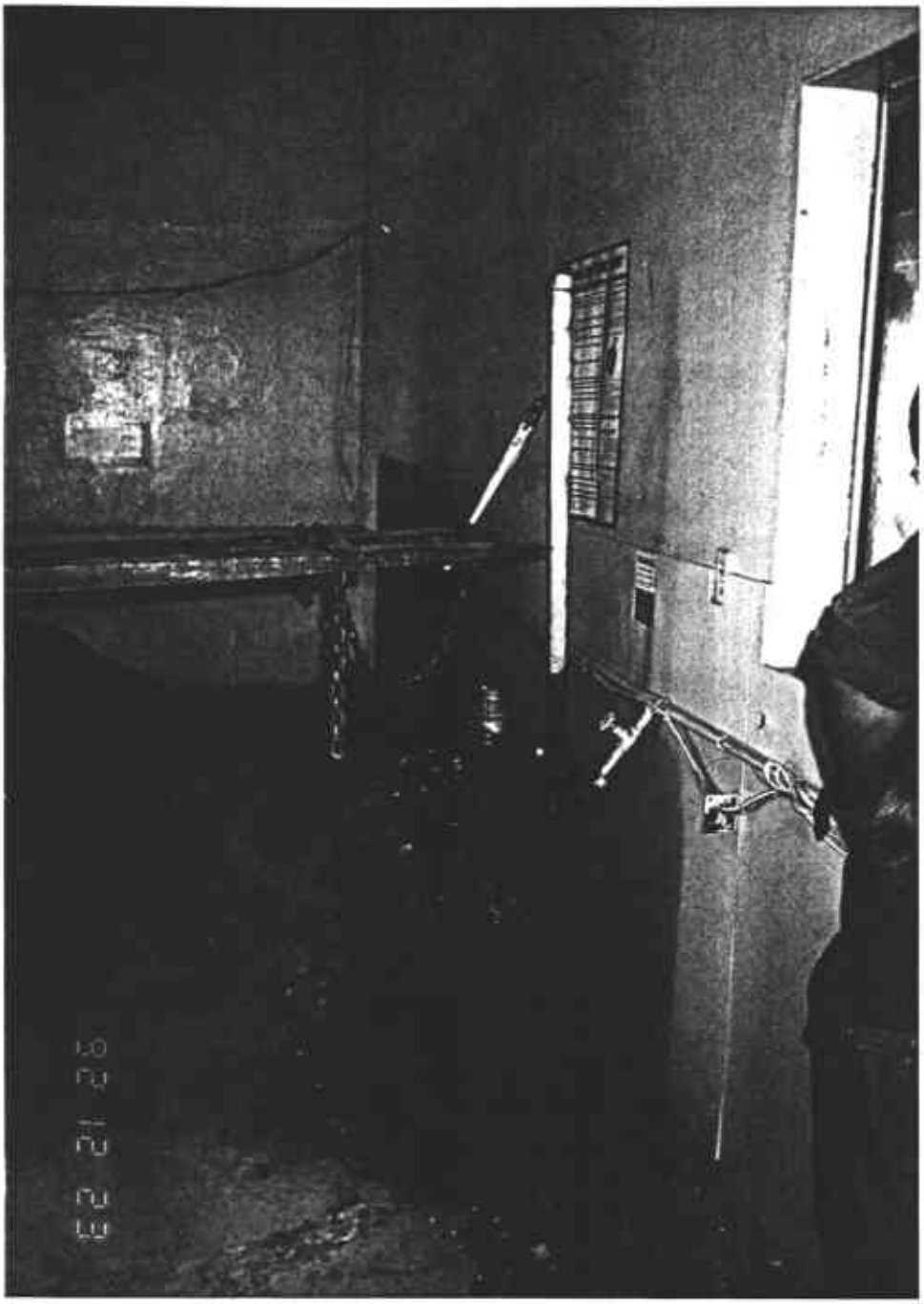
PHOTOGRAPH # 8

View of reservoir No. T-1 being removed from the pit.



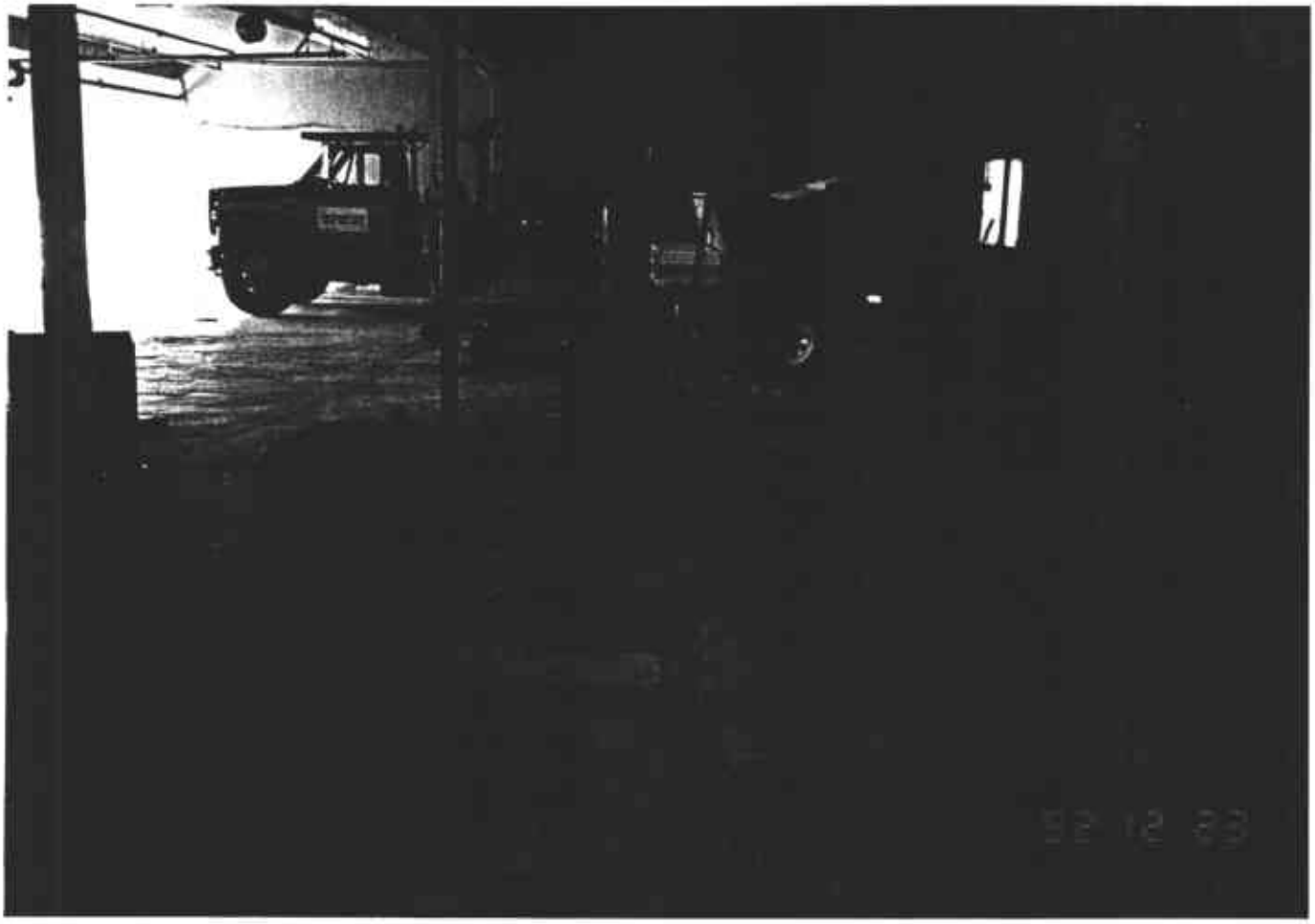
PHOTOGRAPH # 9

View of reservoir No. T-3 after removal.



PHOTOGRAPH # 10

View of Reservoir No. T-5 being pulled out of the ground.



PHOTOGRAPH # 11

View of site after hoist and reservoir removal. Reservoir Nos. T-1, T-2, and T-3 were left standing. Reservoir No. T-4 was lying on its side awaiting for loading onto the truck and is visible in the background to the left of T-3.

APPENDIX B

STOKLEY CONSTRUCTION
AN ENVIRONMENTAL CONTRACTOR
P.O. BOX 1008
TRACY, CA. 95378-1008
GENERAL ENGINEERING LIC. A 492743
GENERAL BUILDING LIC. B 492743
HAZARDOUS SUBSTANCE CERTIFICATION
PHO (209) 832-5012 FAX (209) 832-5150

JANUARY 11, 1992

MR. RAYMOND ELLIOTT
GRAND AUTO
7200 EDGEWATER DR.
OAKLAND, CA. 94621

RE: 2512 107th AVE.
OAKLAND, CA.

DEAR MR. ELLIOTT,

AS PER INSTRUCTIONS FROM MR. LONG CHING OF ALL WEST.

ATTACHED IS THE CERTIFICATION OF HOIST DESTRUCTION AND DISPOSAL OF HYDRAULIC OIL.

AT YOUR SERVICE,

JAMES (TEX) STOKLEY

GAOAK2

cc:MR. LONG CHING, P.E. ALL WEST ENVIRONMENTAL

STOKLEY CONSTRUCTION
AN ENVIRONMENTAL CONTRACTOR
P.O. BOX 1008
TRACY, CA. 95378-1008
GENERAL ENGINEERING LIC. A 492743
GENERAL BUILDING LIC. B 492743
HAZARDOUS SUBSTANCE CERTIFICATION
PHO (209) 832-5012 FAX (209) 832-5150

JANAURY 11, 1993

CERTIFICATION OF DESTRUCTION

STOKLEY DRAINED OIL, TRIPLE RINSED, AND SCRAPED HOIST AS SCRAPED METAL. HOIST OIL WASTE SEND TO A RECYCLER.

ATTACHED ARE COPY OF RECEIPTS.

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 289732

DATE Jan 16 93

JOB LOCATION | BILLING INFORMATION

CUSTOMER

NAME	NAME	CASH ☐ CHECK #
Tex Stockley		PO # 4469
ADDRESS	ADDRESS	CUSTOMER NO.
27550 So. Hansen Rd		New
CITY STATE ZIP CO	CITY STATE ZIP CO	PHONE NO.
Tracy 9537[illegible]		209 832-5012

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	9151486O	250	[redacted]	[redacted]
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 ☐ FAIL ☐ PPM					
OTHER:					
DRAINED USED OIL FILTERS	CRUSHED	UNCRUSHED	EMPTY		

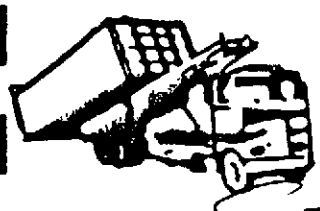
TSDF EVERGREEN OIL, INC. (510) 795-4400
6880 Smith Avenue EPA ID# CAD 980887418
Newark, California 94560

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 above waste is banned from land disposal pursuant to Section 66268.7(10) of Title 22. 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 [redacted]

DRIVER [illegible] ROUTE # 2556 DRIVER SIGNATURE [illegible]

GENERATOR'S SIGNATURE [illegible]



C & S METALS

360 Arbor Avenue — Tracy, California 95376

(209) 836-4293

No. 9299

Date 1/11 19 93

Name Stokley Construction

Address

City Zip Phone #

Driver's License No.

VEHICLE LIC. NO.	CASH	CHECK NO.	CHARGE	ON ACCT.	ACCOUNT #	PAID OUT

SALES AND PURCHASE

Description	Code	Gross (Lbs.)	Tare (Lbs.)	Net (Lbs.)	Tons	Price	Amount
Mixed Metal							
Mixed Metal							
Mixed Metal							
Monel							
Stainless Steel							
Die Cast							
Copper Wire & Tubbing							
Copper #2							
Insulation							
Red Brass							
Yellow Brass							
Radiators							
Borings							
Aluminum							
Aluminum							
Aluminum							
Lead							
Generators							

SUBTOTAL	
TAX	
TOTAL	

BILL OF SALE

I warrant that I am the owner (or owner representative) of the material described hereon and have the right to sell same that it contains no hazardous material as defined by Federal or State law and that for payment hereby received, I sell and convey title to C & S SCRAP METALS.

HOLD HARMLESS AGREEMENT

Seller will indemnity and hold buyer harmless from damage demands and liabilities, including reasonable attorney's fee resulting from the breach of any warranty hereunder and driver agrees to be responsible for damages to vehicles during unloading.

Signature

WEIGHMASTER'S CERTIFICATE OF WEIGHT AND MEASURE

THIS IS TO CERTIFY that the following described merchandise was weighed, measured or counted by a weighmaster, and his signature is a recognized authority of accuracy as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the Department of Food and Agriculture of the State of California.

By Deputy

APPENDIX C

M0186

AllWest Environmental, Inc.
Specialists in Physical Due Diligence and Remedial Services
One Sutter Street, Suite 600
San Francisco, Ca 94104
Tel 415.391.2510
Fax 415.391.2008

Chain of Custody Form

Samplers: L. CHANG

Job Description: OAKLAND HOIST

Job Number: 92198.24

Client Contact: LONG CHING

Recorder: L. CHING

Matrix: Water	Soil	Waste	Oil			#Containers	Method Preserved: H_2SO_4	HNO3	Ice	None	Other	Sample Number	Sampling Date: Yr	Mo	Dy	Time	SAMPLE NOTES	ANALYSIS REQUESTED: TPH – DIESEL	TPH – MOTOR OIL
	X					1			X			H-1 ✓	92	12	24	1030		X	X
	X					1			X			H-2 ✓	92	12	24	1015		X	X
	X					1			X			H-3 ✓	92	12	24	0940		X	X
	X					1			X			H-4 ✓	92	12	24	0900		X	X
	X					1			X			H-5 ✓	92	12	24	0845		X	X
	X					1			X			T-1 ✓	92	12	24	1005		X	X
	X					1			X			T-2 ✓	92	12	24	0950		X	X
	X					1			X			T-3 ✓	92	12	24	0930		X	X
	X					1			X			T-4 ✓	92	12	24	0915		X	X
	X					1			X			T-5 ✓	92	12	24	0830		X	X

Laboratory Notes:

SAMPLES ARE FOR HYDRAULIC OIL FROM AUTO HOISTS.

NORMAL TURNAROUND (5-DAY).

Chain of Custody Record

Relinquished by: (signature) Date/Hr	Received by: (signature)
Marion Knapp 12/28/92 12:50pm	Keren O'Houghton
Relinquished by: (signature) Date/Hr	Received by: (signature)
Keren O'Houghton 12/28/92 2045	
Relinquished by: (signature) Date/Hr	Received by: (signature)
Relinquished by: (signature) Date/Hr	Received by: (signature)
Dispatched by: (signature) Date/Hr	Received for Lab by: (signature)
	Kalvis Lubrigo 12/28/92 20:50

California Laboratory Services

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015
Shaker, DOHS LUFT Method

Client: AllWest Environmental
One Sutter Street Ste 600
San Francisco, CA 94104

Project: Oakland Hoist

Date Sampled: 12/24/92
Date Received: 12/28/92
Date Extracted: 12/30/92
Date Analyzed: 01/05/93
Date Reported: 01/07/93

Project No.: 92198.24
Contact: Long Ching
Phone: (415)391-2510

CLS Contact: Mark Smith
Job No.: 790186
COC Log No.: NO NUMBER
CLS ID No.: M0186
Batch No.: 10476
Matrix: SOIL

ANALYTE

Sample I.D. Client	CLS	TPH as Diesel (mg/kg)	TPH as Motor Oil (mg/kg)
H-1	1A	ND	ND
H-2	2A	ND	ND
H-3	3A	ND	ND
H-4	4A	ND	ND
H-5	5A	ND	100
T-1	6A	ND(500)	3500
T-2	7A	ND(1000)	6800
T-3	8A	ND(1000)	10000
T-4	9A	ND(1000)	6400
T-5	10A	ND(500)	2300
Rep. Limit		10	20

ND = Not detected at or above indicated Reporting Limit
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

California Laboratory Services

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015 Shaker, DOHS LUFT Method

Client: AllWest Environmental
One Sutter Street Ste 600
San Francisco, CA 94104

Project: Oakland Hoist

Date Extracted: 12/30/92
Date Analyzed: 01/05/93
Date Reported: 01/07/93

Project No.: 92198.24
Contact: Long Ching
Phone: (415)391-2510

CLS Contact: Mark Smith
Job No.: 790186
COC Log No.: NO NUMBER
CLS ID No.: M0186
Batch No.: 10476
Matrix: SOIL

METHOD BLANK

Analyte	CAS No.	Results (mg/kg)	Rep. Limit (mg/kg)
TPH as Diesel	N/A	ND	10
TPH as Motor Oil	N/A	ND	20

ND = Not detected at or above indicated Reporting Limit
Rep. Limit = Reporting Limit unless otherwise indicated in parentheses.

California Laboratory Services

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015 Shaker, DOHS LUFT Method

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One Sutter Street Ste 600
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Batch No.: 10476
Matrix: SOIL

MB SPIKE

Analyte	CAS No.	MBS Conc. (mg/kg)	MBS Recovery (percent)
Diesel	N/A	100	100

MB SPIKE DUPLICATE

Analyte	CAS No.	MBSD Conc. (mg/kg)	MBSD Recovery (percent)
Diesel	N/A	100	108

MB SPIKE RPD

Analyte	CAS No.	MBS Relative Percent Difference (percent)
Diesel	N/A	8

California Laboratory Services

CA DOHS ELAP Accreditation/Registration Number 1233

Analysis Report: Total Petroleum Hydrocarbons, EPA Method 8015
Shaker, DOHS LUFT Method

Client: AllWest Environmental
One Sutter Street Ste 600
San Francisco, CA 94104

Project: Oakland Hoist

Date Reported: 01/07/93

Project No.: 92198.24
Contact: Long Ching
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CLS Contact: Mark Smith
Job No.: 790186
COC Log No.: NO NUMBER
CLS ID No.: M0186
Batch No.: 10476
Matrix: SOIL

LAB CONTROL STANDARD

Analyte	CAS No.	LCS Conc. (mg/L)	LCS Recovery (percent)
Diesel	N/A	1000	109