GRACE AUTO REPAIR
2504 MacArthur Boulevard
OAKLAND, CALIFORNIA

TANK REMOVAL REPORT
PREPARED FOR MR. MICHAEL MARR

COPY

October 1994

WAHLER ASSOCIATES
A RUST ENVIRONMENT & INFRASTRUCTURE COMPANY
ONE WALNUT CREEK CENTER
100 PRINGLE AVENUE, SUITE 580
WALNUT CREEK, CALIFORNIA 94596
(510) 746-8890

JOB NUMBER 89477.000

Wahler Associates

A RUST Environment & Infrastructure Company

One Walnut Creek Center, 100 Pringle Avenue, Suite 580
Walnut Creek, CA 94596
Tel. (510) 746-8890 • FAX (510) 746-3838

Job Number: 89477.000
October 7, 1994

Mr. Michael Marr
27737 Fallen Leaf Court
Hayward , California 94542

Subject: Tank Removal Report
Grace Auto Repair
2504 MacArthur Boulevard
Oakland, California

Dear Mr. Marr:

Wahler Associates, A Rust Environment & Infrastructure Company (Wahler) is pleased to present this report for the removal of four underground storage tanks from the property located at 2504 MacArthur Boulevard in Oakland, California. The scope of services for this project included preparing a site safety plan, coordinating with and obtaining permits from the Alameda County Health Agency, Oakland Fire Department, and the Bay Area Air Quality Management District; conducting a site reconnaissance; employing a licensed subcontractor to perform the tank removal operation; coordinating and observing the removal activities carried out by that subcontractor; conducting necessary soil sampling and chemical analysis and preparing a written report detailing the project results and recommending necessary additional investigations, if required.

On June 27, 1994, three approximately 4,000-gallon steel, single-walled, gasoline underground storage tanks, and one approximately 500-gallon single-walled, steel underground waste oil storage tank, were removed from the property located at 2504 MacArthur Boulevard, in Oakland, California. At the direction of the representative of the regulatory agency, two soil samples were collected from native soil below each of the 4000-gallon tanks at a depth of about 11 feet below ground surface (bgs), and one sample was collected from beneath the 500-gallon tank at a depth of about 7 feet bgs.

Chemical analyses of these samples indicated existence of moderate to high levels of hydrocarbon pollutants. In compliance with the requirements of the California Regional Water Quality Control Board, (CRWQCB), it is recommended that a Phase II subsurface investigation be performed at this site in order to characterize the fuel hydrocarbon pollutants in the subsurface and to define the horizontal and vertical extent of the pollutants. In addition, this will further define the geologic and hydrogeologic parameters needed for determining the most effective and feasible remedial action for this site. Wahler will, at your request, prepare a proposal to perform the subsurface investigation. We further recommend copies of this report be submitted to the Alameda County Health Agency, Division Of Hazardous Materials, Department of Environmental Health, and the Oakland Fire Department.

If you have any questions or comments regarding this report, please do not hesitate to call.

Very truly yours,

WAHLER ASSOCIATES
A Rust Environment & Infrastructure Company

Fred A. Serafin, REA #1088
Environmental Section Head

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2504 MacArthur Boulevard
OAKLAND, CALIFORNIA

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TABLE OF CONTENTS

TANK REMOVAL REPORT
2504 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

A. INTRODUCTION

At the request of Mr. Michael Marr (Mr. Marr) Wahler Associates, A RUST Environment & Infrastructure Company (Wahler) removed four underground storage tanks from the property located at 2504 MacArthur Boulevard in Oakland, California. The site location is identified in Figure 1. The approximate tank locations are sketched in Figure 2. The tank excavation operation photographs are presented in photos 1 through 6.

The scope of services for this project included preparing a site safety plan and coordinating with, and obtaining permits from the Alameda County Health Department, Oakland Fire Department, and the Bay Area Air Quality Management District; conducting a site reconnaissance; employing a licensed subcontractor to perform the tank removal operation; coordinating and observing the removal activities and soil sampling carried out by that subcontractor; and preparing a written report detailing the project results and recommending necessary additional investigations.

B. TANK REMOVALS

On June 27th 1994, three approximately 4000-gallon, and one approximately 500-gallon, steel, single-walled, underground storage tanks, previously containing gasoline and waste oil, respectively, were removed from the property. Prior to tank removal, flammable vapors were purged from within the tank by displacement with dry ice. A combustible gas monitor (Gastechtor Model 1314) was used to verify vapor levels. The tank removal operation was performed under the direction of inspectors from the Alameda County Health Agency, Division

Of Hazardous Materials, Department of Environmental Health; and from the Oakland Fire Department; Ms. Susan Hugo and Mr. Larry James, respectively. Relevant permits and inspection reports are included in Appendix A. All product and vapor piping were disconnected and removed. All piping was single-walled steel and not cathodically protected. The vapor and product piping did not display any holes or visible damage. The overburden consisted of sand and clay, and displayed soil discoloration. Hydrocarbon odor was also detected during the excavation. The tanks appeared to be corroded and rusty and a few small holes were observed on the bottom of tank B (Photos 2 and 5) . An Underground Storage Tank Unauthorized Release (Leak)/Contamination Site Report was prepared for this site previously, based on earlier investigations at the site and submitted to the Alameda County Environmental Health Department. A copy of that report is included in Appendix A.

The tanks were transported off site by Erickson, Inc., as hazardous waste under Uniform Hazardous Waste Manifest, State Manifest Document Number 93238409 and 93239544, to Erickson, Inc., at 255 Parr Boulevard in Richmond, California. Manifest copies are included in Appendix A.

Based on extensive visible staining on the sidewalls and in the floor of the excavation, and the existence of hydrocarbon odor, the vadose zone appeared to be contaminated by fuel hydrocarbons. Groundwater was not encountered in the excavation. The excavated soil displayed visual evidence of contamination. The excavated soil was stockpiled on the property, on visqueen spread over an asphalt covered surface. The soil stockpile was also covered with visqueen. The tank pits and over-excavated areas were backfilled and compacted to ground surface on July 7, and 8, 1994, using approximately 270 tons of fresh imported peagravel and aggregate base. The area was subsequently resurfaced to match the surrounding area.

C. SAMPLING AND CHEMICAL ANALYSIS

Under the direction of Ms. Susan Hugo from the Alameda County Health Agency, two soil samples were collected from native soil below each 4000-gallon tank at a depth of about 11 feet, at each end of the tank, and one sample was collected from the native soil below the 500-gallon capacity tank, at a depth of approximately 7 feet at approximately the middle of the pit. All samples were collected in accordance with the California Regional Water Quality Control Board "Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, dated August 1991."

The soil samples were collected by excavating native soil with a backhoe bucket and collecting a sample from the bucket in a 2-inch diameter by 6-inch long brass tube driven by a slide-hammer corer. After collection of the samples, the brass tube ends were covered with aluminum foil and capped with plastic end-caps which were taped to the brass tubes with duct tape. The tubes were then labeled and placed in an iced cooler for transport under chain-of-custody to a State-certified laboratory for chemical analysis.

A total of seven soil samples were collected from beneath the tanks, and chemically analyzed for total petroleum hydrocarbons as diesel, and gasoline (TPH-D and TPH-G), as well as for benzene, toluene, ethylbenzene, and xylenes (BTEX) and organic lead. Additionally, two 3-part composite soil samples were taken from the stockpiled soil. All samples collected were chemically analyzed for total petroleum hydrocarbons as gasoline, (TPH-G), as well as for benzene, toluene, ethylbenzene, and xylenes (BTEX), and for organic lead. Sample locations are identified in the Sample Location Map labeled "Tank Excavation", in Figure 3. With the exception of samples AB-1 and AB-2 which revealed no concentrations of TPH-G or BTEX above the laboratory detection limits; all samples collected from beneath the tanks, detected TPH-G at concentrations ranging from 3.4 parts per million (ppm) to 24 ppm. All BTEX

compounds were present in all samples from beneath the tanks except for samples AB-1 and AB-2. Sample DB-1 was found to contain no concentrations of Diesel or Oil and Grease above the laboratory detection limits. Additionally two 3-part composite samples were taken from the excavated stockpiled soil. Soil Sample SP-1A,B,C revealed concentrations of 1600 ppm of TPH-G, 870, 12000, 14000 and 77000 Parts per billion (ppb) of Benzene, Toluene, Ethylbenzene, and total Xylenes, respectively. Soil Sample SP-2A,B,C was found to contain no concentrations of TPH-G or BTEX compounds above the laboratory detection limits. Organic lead ranging in concentration between 5.9 ppm and 14 ppm was detected in sample numbers AB-1, AB-2, BB-1, BB-2, CB-1, CB-2, SP-1ABC, and SP-2ABC. Laboratory analytical results are included in Appendix B. A summary of the soil analysis data is presented in tables 1, 2 and 3. (See Appendix C for the appropriate sampling protocol.)

Based on extensive visible staining on the sidewalls and in the floor of the excavation, and the existence of gasoline odor, the vadose zone appeared to be contaminated by fuel hydrocarbons. Under the direction of Ms. Hugo and with the concurrence of Mr. Marr, approximately 80 additional tons of soil were overexcavated subsequent to the removal of the tanks. A total of 13 soil samples were taken from the sidewalls at a depth of about 8.5 feet bgs, and from the bottom of the pit in the overexcavated areas. Sample locations are identified in the Sample Location Map labeled "Overexcavation", in Figure 4. The Pit was then lined with visqueen, and backfilled with clean imported fill material. Samples SW-2, SW-3, SW-4, SW-5, SW-8 and SW-9 revealed no concentrations of TPH-G or BTEX above the laboratory detection limits. Samples SW-1, SW-2, SW-6, SW-7, SW-10, SW-11, SW-12 and SW-13 detected TPH-G at concentrations ranging from 1.8 parts per million (ppm) to 250 ppm. With the exception of sample SW-13 which revealed no BTEX compounds, at least 3 BTEX compounds were present in each of the 12 samples.

D. CONCLUSIONS

On June 27th, 1994, four underground storage tanks were removed from the property located at 2504 Macarthur Boulevard in Oakland, California. During the excavation, extensive visible staining in the sidewalls was observed and hydrocarbon fuel odor was detected. Chemical analysis of samples taken during the tank removal operation, indicated hydrocarbon pollutants and organic lead in the soil. A total of 270 tons of contaminated soil was excavated and stockpiled on the property, and was subsequently removed and treated by thermal desorption at a licensed facility.

Based on conditions encountered during the excavation, including visual evidence, soil staining and odor, as well as the results of the chemical analysis of soil samples taken under regulatory oversight, it appears that the soil and/or groundwater at the property may have been impacted by a release of fuel from the underground storage tanks. During the excavation, extensive visible staining in the sidewalls was observed and strong hydrocarbon fuel odor was detected. In addition, chemical analysis of samples taken during the tank removal operation, indicated moderate to high levels of hydrocarbon pollutants in the soil.

Based on the above, and in accordance with the requirements of CRWQCB, Wahler recommends that Mr. Marr perform an investigation of pollutants in the soil and groundwater in and around the area where the tanks were previously located. The scope of work for a subsurface investigation should include a review of pertinent information, advancement of soil borings, installation of groundwater and vadose zone monitoring wells, sampling and chemical analysis, data evaluation and analysis, and the preparation of probable cost for any anticipated remedial action. The automotive repair business previously occupying the site (Grace Auto Repair) has since resumed operation at the site.

Wahler recommends that a copy of this report be submitted to the Alameda County Health Agency, Division Of Hazardous Materials, Department of Environmental Health; and to the Oakland Fire Department.

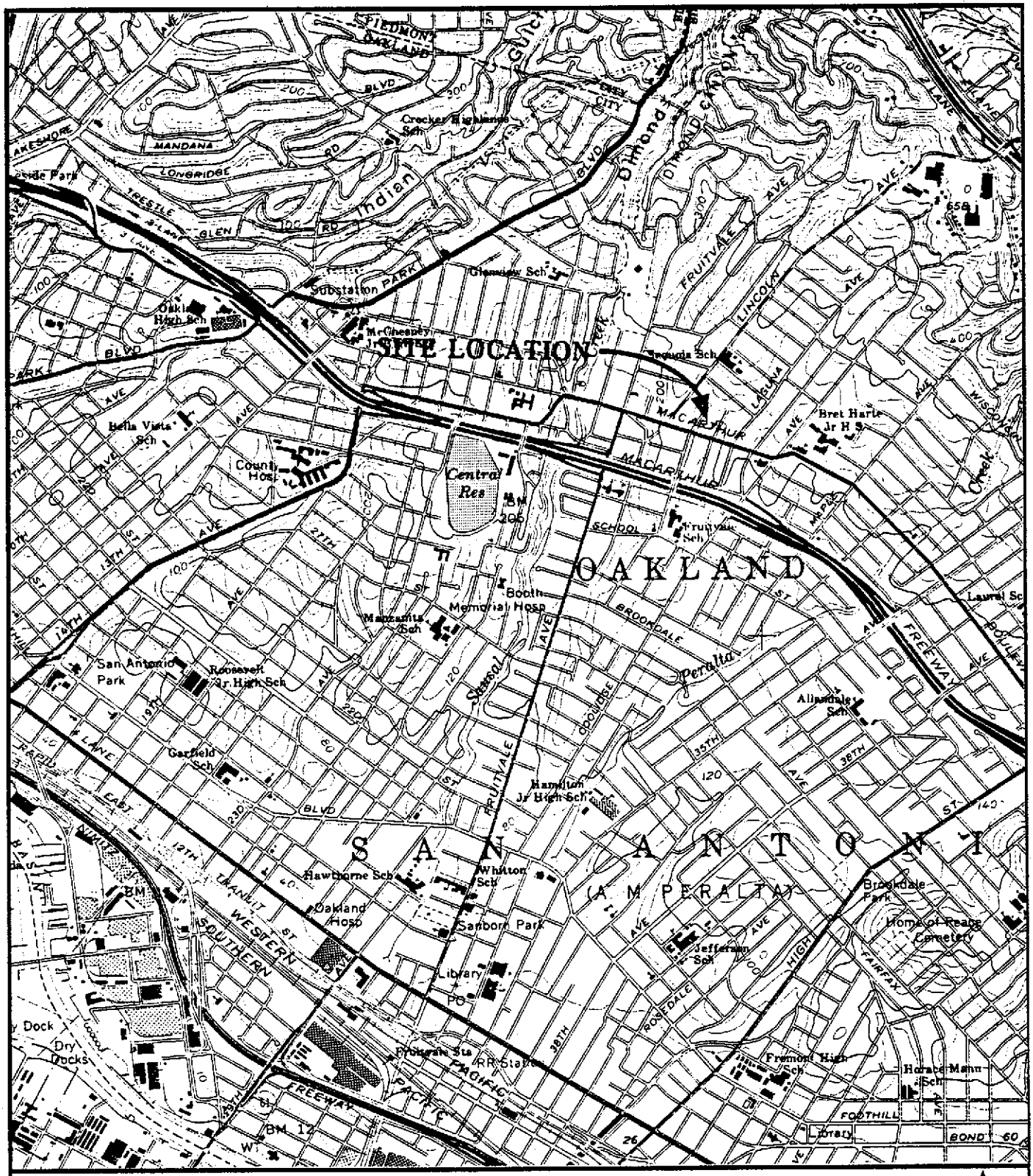
E. LIMITATIONS

The data, information, interpretations, and recommendations contained in this technical report are presented solely as preliminary bases and guides to the existing environmental conditions of 2504 MacArthur Boulevard in Oakland, California. The conclusions and professional opinions presented herein were developed by Wahler in accordance with generally accepted engineering principles and practices. As with all geotechnical and environmental reports, the opinions expressed here are subject to revisions in light of new information, new governmental regulations or new interpretations of existing regulations, which may be developed in the future, and no warranties are expressed or implied.

This report has not been prepared for use by parties other than Mr. Michael Marr. It may not contain sufficient information for the purposes of other parties or other uses. If any changes are made in the project as described in this report, the conclusions and recommendations contained herein should not be considered valid, unless the changes are reviewed by Wahler, and the conclusions and recommendations are modified or approved in writing.

Soil deposits may vary in type, strength, permeability, and many other important properties between points of observation and exploration. Additionally, changes can occur in groundwater and soil moisture conditions due to seasonal variations, or for other reasons. Furthermore, the distribution of chemical concentrations in the soil and groundwater can vary spatially and over time. The chemical analysis results presented herein are illustrative of only the sampling locations at the time of sampling. Therefore, it must be recognized that Wahler does not and

cannot have complete knowledge of the subsurface conditions underlying the subject site. The opinions presented are based upon the findings at the points of exploration and upon interpretative data, including interpolation and extrapolation of information obtained at points of observation.



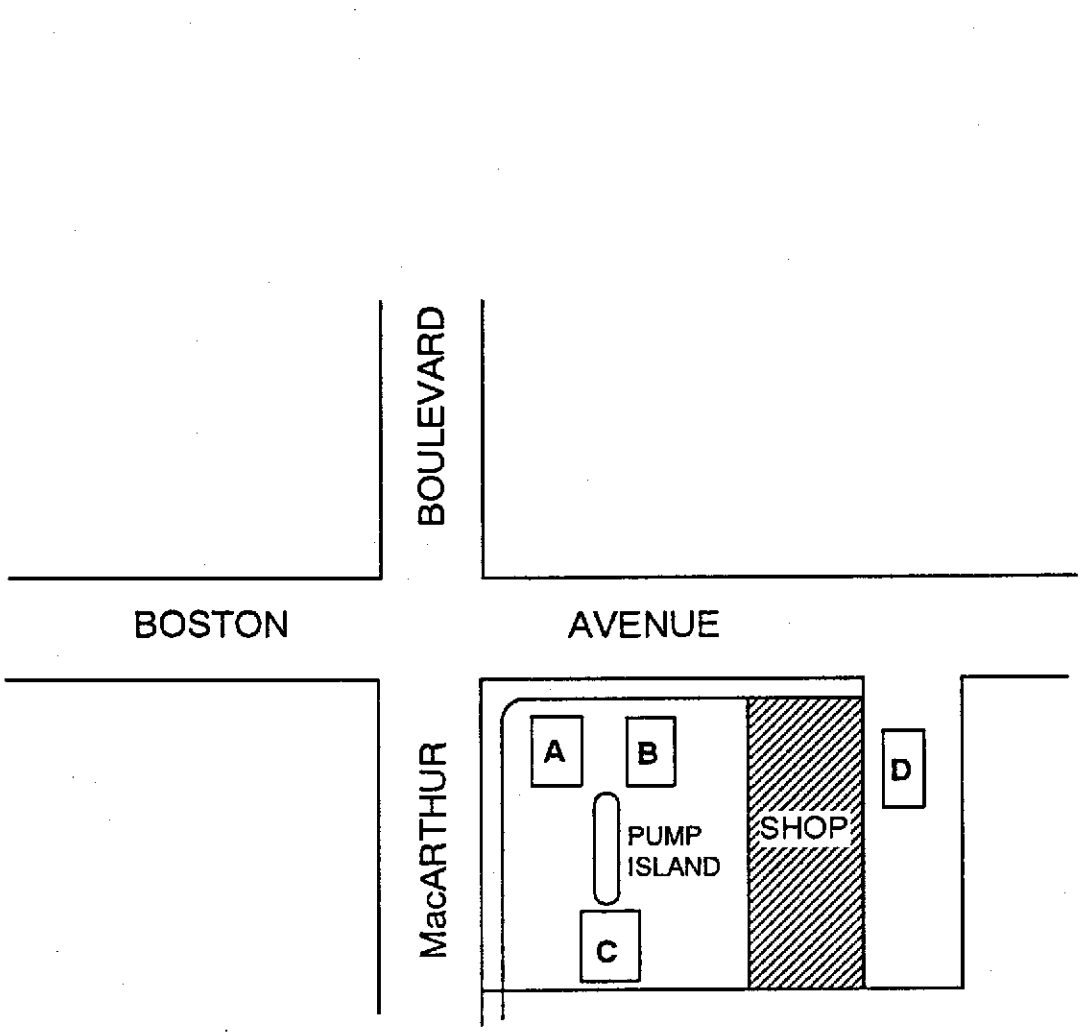
Base from USGS 7.5' Topographic Map, Oakland East, California, Photorevised 1980.
Scale: 1:24,000.

RUST ENVIRONMENT & INFRASTRUCTURE
Walnut Creek, California

2504 MacArthur Blvd.
Oakland, California

Site Location Map

Project No.	Date	Figure No.
89477.000	September 1994	1

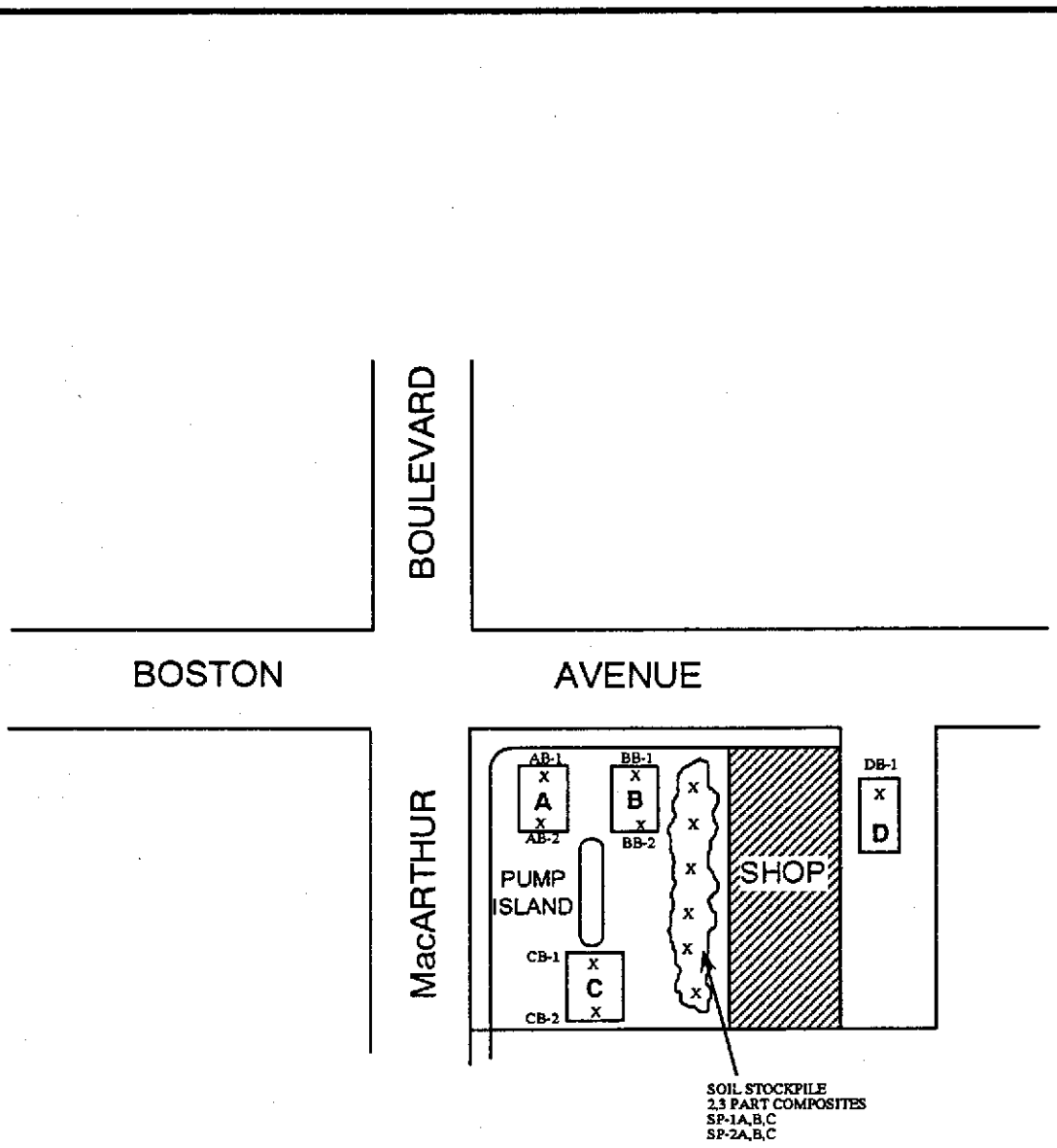


LEGEND

Approximate Tank Location

Not to Scale

RUST ENVIRONMENT & INFRASTRUCTURE Walnut Creek, California	2504 MacArthur Blvd. Oakland, California	Site Plan	
		Project No.	Date	Figure No.
		89477.000	September 1994	2



LEGEND

Approximate Tank Location

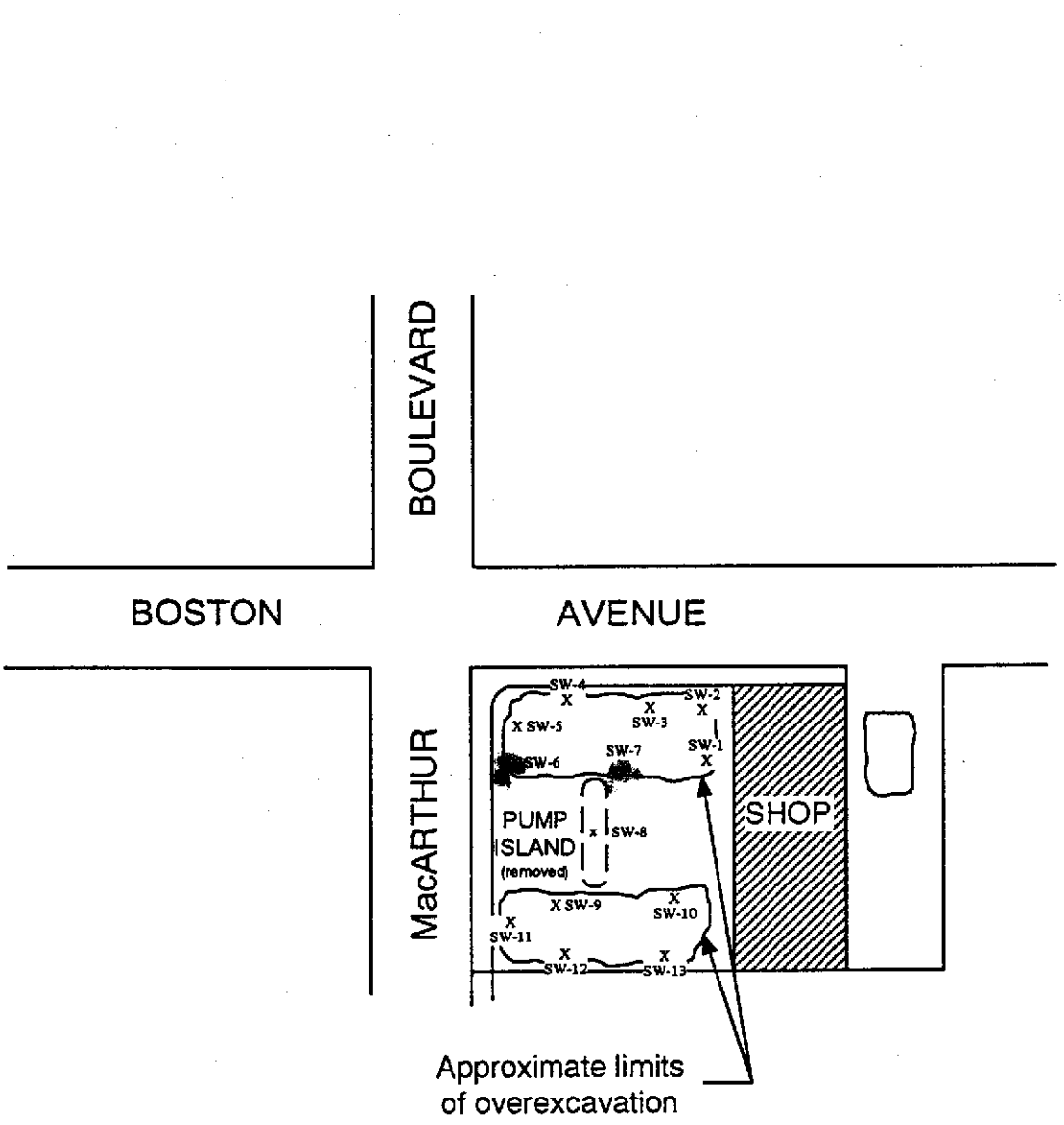
X Approximate Sample Location

AB-1 Sample Number

Not to Scale

RUST ENVIRONMENT & INFRASTRUCTURE Walnut Creek, California	2504 MacArthur Blvd. Oakland, California	Sample Location Map - Tank Excavation

Project No.	Date	Figure No.
89477.000	September 1994	3



LEGEND

X Approximate Sample Location

SW-1 Sample Number

Not to Scale

RUST ENVIRONMENT & INFRASTRUCTURE Walnut Creek, California	2504 MacArthur Blvd. Oakland, California	Sample Location Map - Overexcavation	
		Project No.	Date	Figure No.
		89477.000	September 1994	4

TABLE 1
SUMMARY OF SOIL ANALYSES DATA
FOR SAMPLES FROM TANK EXCAVATION

Sample Number	Date	Sample Matrix	TPH-G mg/Kg	Benzene ug/Kg	Toluene ug/Kg	Ethyl Benzene ug/Kg	Total Xylenes ug/Kg	Lead mg/Kg
AB-1	6/27/94	SOIL	N.D.	N.D.	N.D.	N.D.	N.D.	8.0
BB-1	6/27/94	SOIL	3.4	12	68	75	320	5.9
CB-1	6/27/94	SOIL	12	N.D.	N.D.	29	40	6.9
AB-2	6/27/94	SOIL	N.D.	N.D.	N.D.	N.D.	N.D.	8.5
BB-2	6/27/94	SOIL	15	8.8	160	170	980	10.0
SP-1A,B,C	6/27/94	SOIL	1,600	870	12,000	14,000	77,000	14
CB-2	6/27/94	SOIL	24	N.D.	N.D.	39	56	9.3
SP-2A,B,C	6/27/94	SOIL	N.D.	N.D.	N.D.	N.D.	N.D.	14
SW-1	7/6/94	SOIL	9.5	8.3	N.D.	58	81	---
SW-2	7/6/94	SOIL	N.D.	N.D.	N.D.	N.D.	N.D.	---
SW-3	7/6/94	SOIL	N.D.	N.D.	N.D.	N.D.	N.D.	---
SW-4	7/6/94	SOIL	N.D.	N.D.	N.D.	N.D.	N.D.	---
SW-5	7/6/94	SOIL	N.D.	N.D.	N.D.	N.D.	N.D.	---
SW-6	7/6/94	SOIL	210	400	990	2,800	11,000	---
SW-7	7/6/94	SOIL	250	120	120	330	480	---
SW-8	7/6/94	SOIL	N.D.	N.D.	N.D.	N.D.	N.D.	---

TABLE 1
SUMMARY OF SOIL ANALYSES DATA
FOR SAMPLES FROM TANK EXCAVATION

Sample Number	Date	Sample Matrix	TPH-G mg/Kg	Benzene ug/Kg	Toluene ug/Kg	Ethyl Benzene ug/Kg	Total Xylenes ug/Kg	Lead mg/Kg
SW-9	7/6/94	SOIL	N.D.	N.D.	N.D.	N.D.	N.D.	---
SW-10	7/6/94	SOIL	5.4	N.D.	N.D.	20	37	---
SW-11	7/6/94	SOIL	8.2	15	N.D.	16	23	---
SW-12	7/6/94	SOIL	22	N.D.	N.D.	42	34	---
SW-13	7/6/94	SOIL	1.8	N.D.	N.D.	N.D.	N.D.	---
Detection Limits			**1.0**	**5.0**	**5.0**	**5.0**	**5.0**	**0.5**

NOTES:
- mg/Kg — Milligrams per Kilogram (parts per million)
- ug/Kg — Micrograms per Kilogram (parts per billion)
- TPH-G — Total Pertroleum Hydrocarbons as Gasoline

TABLE 2
SUMMARY OF SOIL ANALYSES DATA
FOR SAMPLE NUMBER DB-1

Sample Number	Date	Sample Matrix	TPH-D mg/Kg	Oil & Grease mg/kg	EPA 8240/8260 ug/Kg
DB-1	6/27/94	SOIL	N.D.	N.D.	N.D.

NOTES: mg/Kg Milligrams per Kilogram (parts per million)
ug/Kg Micrograms per Kilogram (parts per billion)
TPH-D Total Petroleum Hydrocarbons as Diesel

TABLE 3
SUMMARY OF SOIL RCI ANALYSES DATA

Sample Number	Date	Sample Matrix	Reactivity	Corrosivity	Ignitability
SP1 ABC	6/27/94	SOIL	No	pH 8.4	No
SP2 ABC	6/27/94	SOIL	No	pH 9.0	No

Photo 1

Photo 2

Photo 3

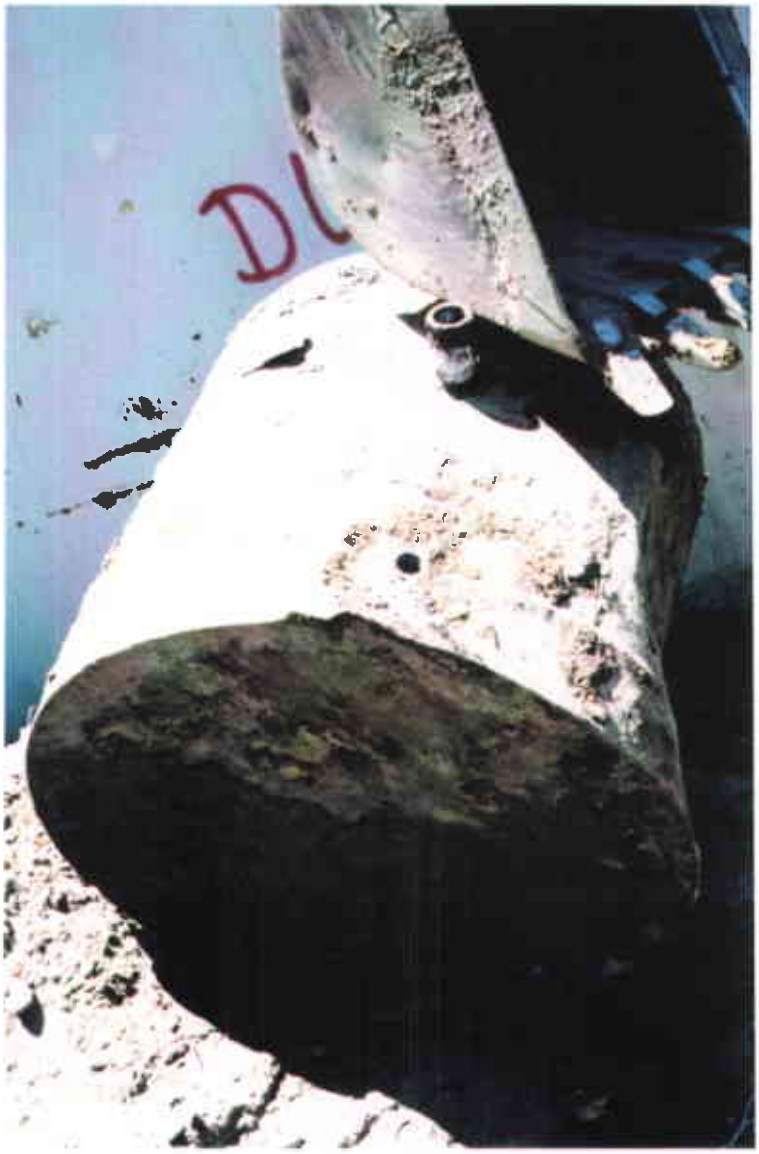


Photo 4

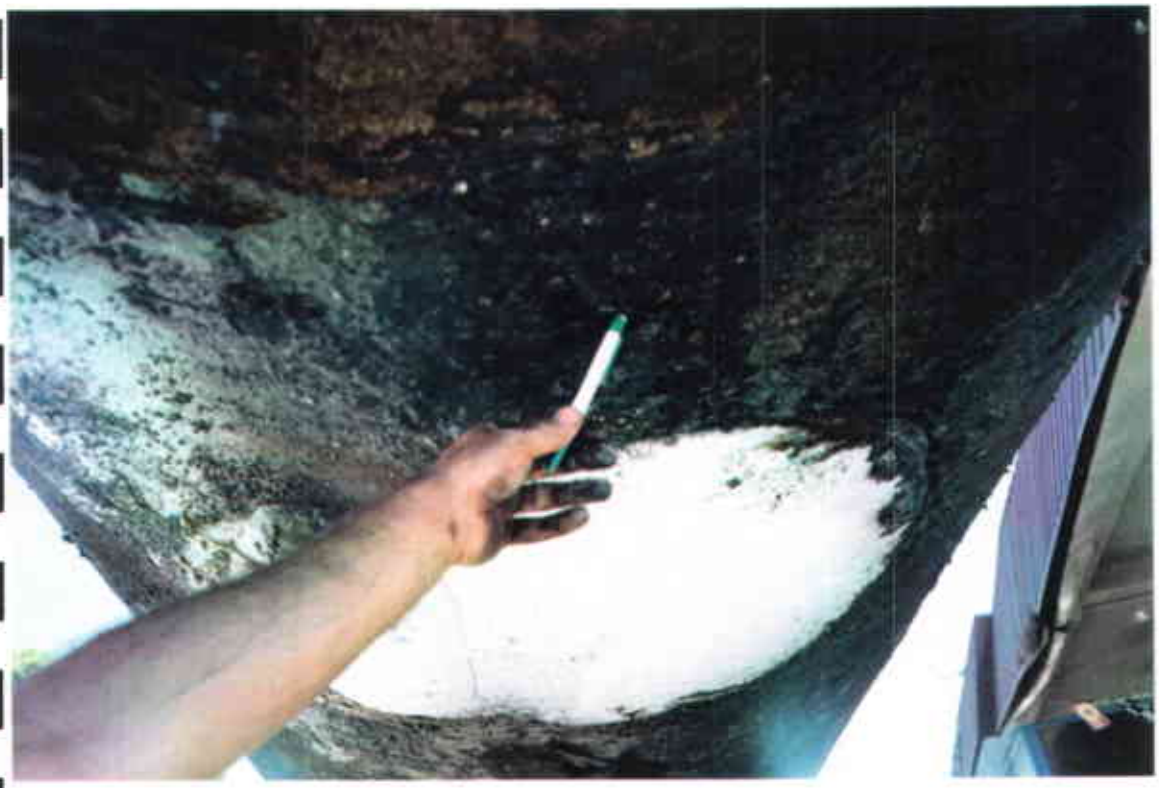


Photo 5

Photo 6

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF
ENVIRONMENTAL HEALTH

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

Hazardous Materials Inspection Form

II,III

Site ID # ____ Site Name Grace Auto Repair Today's Date 6/27/94

Site Address 2504 MacArthur Blvd.

City Oakland Zip 94602 Phone ________

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

Inspection Categories:

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

Page 1

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

II.A BUSINESS PLANS (Title 19)

___	1. Immediate Reporting	2703
___	2. Bus. Plan Stds.	25503(b)
___	3. RR Cars > 30 days	25503.7
___	4. Inventory Information	25504(a)
___	5. Inventory Complete	2730
___	6. Emergency Response	25504(b)
___	7. Training	25504(c)
___	8. Deficiency	25505(a)
___	9. Modification	25505(b)

II.B ACUTELY HAZ. MAT'LS

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

III. UNDERGROUND TANKS (Title 23)

General

___	1. Permit Application	25284 (H&S)
___	2. Pipeline Leak Detection	25292 (H&S)
___	3. Records Maintenance	2712
___	4. Release Report	2651
___	5. Closure Plans	2670

Monitoring for Existing Tanks

___ 6. Method
1) Monthly Test
2) Daily Vadose
Semi-annual gndwater
One time soils
3) Daily Vadose
One time soils
Annual tank test
4) Monthly Gndwater
One time soils
5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
6) Daily Inventory
Annual tank testing
Cont pipe leak det
7) Weekly Tank Gauge
Annual tank tstng
8) Annual Tank Testing
Daily Inventory
9) Other ________

___	7. Precis Tank Test Date: ________	2643
___	8. Inventory Rec.	2644
___	9. Soil Testing.	2646
___	10. Ground Water.	2647

New Tanks

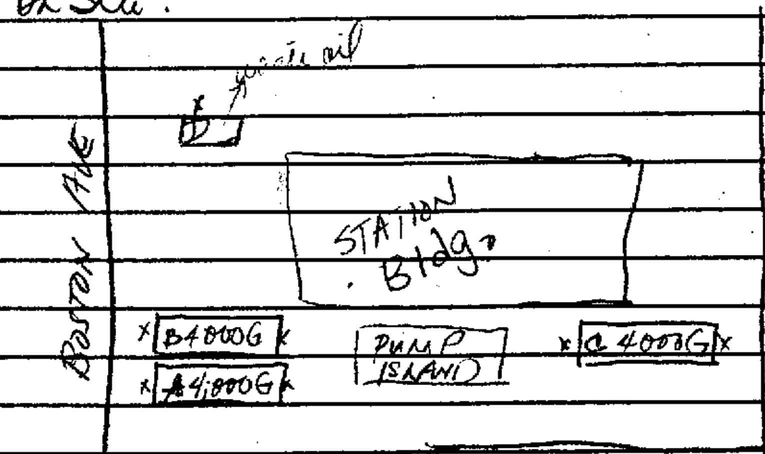
___	11. Monitor Plan	2632
___	12. Access. Secure	2634
___	13. Plans Submit Date: ________	2711
___	14. As Built Date: ________	2635

Rev 6/88

Comments:

4 UGTs Removal:

On Site:



2504 MacArthur Blvd.

TANK B - TRIDENT TRUCKING # 430867 exp 6/95
Hauler Manifest # 93238409
Tank had a hole at the bottom area
where they stick the tank
4000 gal steel tank (gasoline) tank,
strong pitting, corrosion
LEL = 2% O2 = 5%
Strong soil staining & hydrocarbon odor.

II, III

Contact: Robert Sarabia [illegible]
Title: [illegible]
Signature: [illegible]

Inspector: ________
Signature: Susan L. Hugo

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Inspection Form

II,III

Site ID # ____ Site Name GRACE AUTO REPAIRS Today's Date 6/27/94

Site Address 2504 MacArthur Blvd.

City Oakland Zip 94602 Phone ________

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

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

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

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19. Trade Secret Requested?	25538

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Monitoring for Existing Tanks

6. Method
1) Monthly Test
2) Daily Vadose
Semi-annual gndwater
One time soils
3) Daily Vadose
One time soils
Annual tank test
4) Monthly Gndwater
One time soils
5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
6) Daily Inventory
Annual tank testing
Cont pipe leak det
7) Weekly Tank Gauge
Annual tank tstng
8) Annual Tank Testing
Daily Inventory
9) Other ________

7. Precis Tank Test Date: ________	2643
8. Inventory Rec.	2644
9. Soil Testing.	2646
10. Ground Water.	2647

New Tanks

11. Monitor Plan	2632
12. Access. Secure	2634
13. Plans Submit Date: ________	2711
14. As Built Date: ________	2635

Rev 8/88

Comments:

Tank A, C D hauler - Erickson # 430334 exp. 5/95 manifest #93239544
PAGE 2
Tank A - 4000 gal. gasoline Steel tank w/ tar wrapping dissolved fr. overfilling
LEL = 10% O2% = 6%
strong corrosion, pitting; soil discoloration

Tank C - 4000 gal gasoline tank (Steel) tar wrapped with fiberglass cloth; strong corrosion, pitting
LEL = 4% O2 = 7%
soil staining present

Tank D - waste oil tank (steel) 250 gal.
LEL = 2% O2 = 6.5 - 7.8%
tank is rusty w/no obvious holes

All piping associated with the tanks must be removed.
Stockpiled soils must be characterized for proper disposal

II, III

Contact: Robert Sexton for Michael Murr

Title: Senior Project Scientist

Signature: [signature]

Inspector: [signature]

Signature: [signature]

white -env.health
yellow -facility
pink -files

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

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

Hazardous Materials Inspection Form

II, III

Site ID # ____ Site Name Grace Auto Repair Today's Date 6/27/94

Site Address 2504 MacArthur Blvd.

City Oakland Zip 94602 Phone ____

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

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

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

II.A BUSINESS PLANS (Title 19)

___	1. Immediate Reporting	2703
___	2. Bus. Plan Stds.	25503(b)
___	3. RR Cars > 30 days	25503.7
___	4. Inventory Information	25504(a)
___	5. Inventory Complete	2730
___	6. Emergency Response	25504(b)
___	7. Training	25504(c)
___	8. Deficiency	25505(a)
___	9. Modification	25505(b)

II.B ACUTELY HAZ. MATLS

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

III. UNDERGROUND TANKS (Title 23)

General

___	1. Permit Application	25284 (H&S)
___	2. Pipeline Leak Detection	25292 (H&S)
___	3. Records Maintenance	2712
___	4. Release Report	2651
___	5. Closure Plans	2670

Monitoring for Existing Tanks

___ 6. Method
1) Monthly Test
2) Daily Vadose
Semi-annual gndwater
One time soils
3) Daily Vadose
One time soils
Annual tank test
4) Monthly Gndwater
One time soils
5) Daily Inventory
Annual tank testing
Cont pipe leak det
Vadose/gndwater mon.
6) Daily Inventory
Annual tank testing
Cont pipe leak det
7) Weekly Tank Gauge
Annual tank tstng
8) Annual Tank Testing
Daily Inventory
9) Other ____

___	7. Precis Tank Test Date: ____	2643
___	8. Inventory Rec.	2644
___	9. Soil Testing.	2646
___	10. Ground Water.	2647

New Tanks

___	11. Monitor Plan	2632
___	12. Access. Secure	2634
___	13. Plans Submit Date: ____	2711
___	14. As Built Date: ____	2635

Rev 8/88

Comments:

Page 3 Oakland Fire Dept drop by on site at 1:00 PM; All UGTs have been removed.

One soil sample from each end of the 3-4000 gal tanks collected.

One soil sample from the waste oil tank area collected.

Unauthorized Leak Report must be filed.

The site is very limited in space & lots of electrical utilities hanging over the facilities.

II, III

Contact: Robert Scientific for Michael Marr

Title: Senior Project Scientist Inspector: ____

Signature: Robert Scientific Signature: Susan L. Hugo

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. Form designed for use on elite (12-pitch) typewriter.

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

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

1. Generator's US EPA ID No.: CAC000976944
Manifest Document No.: 38409
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
MICHAEL MAAR
27731 FALCONCLAE COURT
HAYWARD CA 94542
4. Generator's Phone: 510 482 1536

5. Transporter 1 Company Name: TRIDENT TRUCKLINE
6. US EPA ID Number: CAD9827484370

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, CA. 94801
10. US EPA ID Number: CAD009466392

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-RCRA Hazardous Waste Solid Waste Empty Storage Tank.	001	TP	04000	P
b.				
c.				
d.				

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name FRED SERAFE Phone 510-746-8890

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
TOMMY PILKINGTON	[signature]	06	27	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

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	Month	Day	Year

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (7/92)
EPA 8700—22

Yellow: GENERATOR RETAINS

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-94)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAC000976944 | Manifest Document No. 39544 | 2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

GENERATOR

3. Generator's Name and Mailing Address
MICHAEL MARR 27737 FALLENLEAF Court. Hayward, CA 94542

4. Generator's Phone (510) 482-1536

5. Transporter 1 Company Name: ERICKSON INC

6. US EPA ID Number: CAD009946392

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
Erickson, Inc.
255 Parr Blvd.
Richmond, Ca. 94801

10. US EPA ID Number: CAD009466392

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-RCRA Hazardous Waste Solid. Waste Empty Storage Tank.	002	TP	08000	P
b. NON-RCRA HAZARDOUS WASTE SOLID WASTE EMPTY STORAGE TANK	001	TP	00500	P
c.				
d.				

[redacted]

15. Special Handling Instructions and Additional Information
Keep away from sources of ignition. Always wear hardhats when working around U.G.S.T.'s 24 Hr. Contact Name ~~Robert~~ DE & Phone (510) - 746-8850
FRED SERAFEI

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of the consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable federal, state and international laws.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Month	Day	Year
For Michael Marr Robert Serafei		06	17	94

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
DONALD L ESTEP		06	27	94

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

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	Month	Day	Year

DO NOT WRITE BELOW THIS LINE.

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

DTSC 8022A (7/92)
EPA 8700—22

Yellow: GENERATOR RETAINS

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

EMERGENCY ☐ YES ☒ NO

HAS STATE OFFICE OF EMERGENCY SERVICES REPORT BEEN FILED? ☐ YES ☒ NO

REPORT DATE: M M D D Y Y

CASE #:

FOR LOCAL AGENCY USE ONLY
I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAVE REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 OF THE HEALTH AND SAFTY CODE.

SIGNED _____ DATE _____

REPORTED BY

NAME OF INDIVIDUAL FILING REPORT: Michael Marr

PHONE: (510) 482-1536

SIGNATURE:

REPRESENTING ☒ OWNER/OPERATOR ☐ REGIONAL BOARD ☐ LOCAL AGENCY ☐ OTHER _____

COMPANY OR AGENCY NAME:

ADDRESS: 27737 Fallen Leaf Ct. (STREET) Hayward (CITY) CA (STATE) 94542 (ZIP)

RESPONSIBLE PARTY

NAME: Michael Marr ☐ UNKNOWN

CONTACT PERSON: Michael Marr

PHONE: (510) 482-1536

ADDRESS: 27737 Fallen Leaf Ct. (STREET) Hayward (CITY) CA (STATE) 94542 (ZIP)

SITE LOCATION

FACILITY NAME (IF APPLICABLE): Former Service Station

OPERATOR: -

PHONE: ( ) -

ADDRESS: 2504 MacArthur Blvd. (STREET) Oakland (CITY) Alameda (COUNTY) (ZIP)

CROSS STREET: Boston Avenue

IMPLEMENTING AGENCIES

LOCAL AGENCY / AGENCY NAME:

CONTACT PERSON:

PHONE: ( )

REGIONAL BOARD:

CONTACT PERSON:

PHONE: ( )

SUBSTANCES INVOLVED

(1) NAME: Petroleum Hydrocarbon — QUANTITY LOST (GALLONS): _____ ☐ UNKNOWN

(2) NAME: _____ — QUANTITY LOST (GALLONS): _____ ☐ UNKNOWN

DISCOVERY/ABATEMENT

DATE DISCOVERED: 10 10 93

HOW DISCOVERED: ☐ INVENTORY CONTROL ☒ SUBSURFACE MONITORING ☐ NUISANCE CONDITIONS ☐ TANK TEST ☐ TANK REMOVAL ☐ OTHER _____

DATE DISCHARGE BEGAN: M M D D Y Y ☒ UNKNOWN

HAS DISCHARGE BEEN STOPPED? ☒ YES ☐ NO IF YES, DATE M M D D Y Y

METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)
☒ REMOVE CONTENTS ☐ REPLACE TANK ☐ CLOSE TANK ☐ REPAIR TANK ☐ REPAIR PIPING ☐ CHANGE PROCEDURE ☐ OTHER _____

SOURCE/CAUSE

SOURCE OF DISCHARGE
☐ TANK LEAK ☒ UNKNOWN ☐ PIPING LEAK ☐ OTHER

CAUSE(S)
☐ OVERFILL ☐ RUPTURE/FAILURE ☐ SPILL ☐ CORROSION ☒ UNKNOWN ☐ OTHER _____

CASE TYPE

CHECK ONE ONLY
☒ UNDETERMINED ☐ SOIL ONLY ☐ GROUNDWATER ☐ DRINKING WATER - (CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)

CURRENT STATUS

CHECK ONE ONLY
☐ NO ACTION TAKEN ☐ PRELIMINARY SITE ASSESSMENT WORKPLAN SUBMITTED ☐ POLLUTION CHARACTERIZATION
☒ LEAK BEING CONFIRMED ☐ PRELIMINARY SITE ASSESSMENT UNDERWAY ☐ POST CLEANUP MONITORING IN PROGRESS
☐ REMEDIATION PLAN ☐ CASE CLOSED (CLEANUP COMPLETED OR UNNECESSARY) ☐ CLEANUP UNDERWAY

REMEDIAL ACTION

CHECK APPROPRIATE ACTION(S) (SEE BACK FOR DETAILS)
☐ CAP SITE (CD) ☐ CONTAINMENT BARRIER (CB) ☐ VACUUM EXTRACT (VE)
☐ EXCAVATE & DISPOSE (ED) ☐ EXCAVATE & TREAT (ET) ☐ NO ACTION REQUIRED (NA) ☐ OTHER (OT) _____
☐ REMOVE FREE PRODUCT (FP) ☐ PUMP & TREAT GROUNDWATER (GT) ☐ TREATMENT AT HOOKUP (HU)
☐ ENHANCED BIO DEGRADATION (IT) ☐ REPLACE SUPPLY (RS) ☐ VENT SOIL (VS)

COMMENTS

HSC 05 (11/89)

Excavation Permit Granted _____ No. _____

CITY OF OAKLAND

Tank Permit No. 9824

Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks.

Oakland, California, JUNE 22, 1994 19

PERMISSION IS HEREBY GRANTED TO XXXXX remove XXXXX Gasoline tank and excavate commencing _____ feet inside property line

on the _____ side of _____ Street Avenue _____ feet _____ of _____ Street Avenue

House No. 2504 MacArthur Blvd. Street Avenue

Owner Michael Marr Present Storage Address 27737 Fallen Leaf Ct., Hayward Phone 482-1536

Applicant Fred Serafin Address 100 Pringle Ave. Ste 580 94542 Phone

Walnut Creek, Ca 94596

Dimensions of street (sidewalk) surface to be disturbed no X Number of Tanks 4 Capacity 3/4000 Gallons, each

" " 1/500 " "

Remarks: _____

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

Approved _____
Fire Marshal

Approved _____
Drainage Division Engineering Dept.

EXCAVATING PERMIT

Issued in accordance with Ord. No. 278 CMS, Sec. 6-2.04

_____ square feet of digging or removal granted.

The receipt of $_____ special deposit is hereby acknowledged.

GENERAL DEPOSIT.

BUREAU OF PERMITS AND LICENSES.

Inspection Fee Paid - - - - - - - - $300.00 ck#1361, rec #703641

Received by D. Clemons
FIRE PREVENTION BUREAU

N W E S

CERTIFICATE OF TANK AND EQUIPMENT INSPECTION

Inspected and passed on _____ 19

By _____
Fire Marshal

NOTICE

Before Covering Tanks, Above Certificate Must Be Signed.
When ready for inspection notify Fire Prevention Bureau, 273-3851

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

536-68 (6-67)

CITY OF OAKLAND
REPORT OF FIRE INSPECTION

ENGINE CO.

ADDRESS 2504 MACARTHUR BLVD

NAME: GRAY'S AUTO REPAIR

GENERAL INSPECTION ☐ PERMIT ☐ OTHER ☐ HAZARD NOTED ☐ HAZARD ABATED ☐

NOTICE LEFT ☐ LETTER ☐	1st NOTICE	2nd NOTICE	FINAL

DATE	VIOLATION	O.F.C.	CONTACTED
6/27/94	#1 LEL LEVEL @ % 10% / 0-2 @ 6%		SUE YUGO @ ALCO HEALTH
	FROM A 4000 GAL TANK, #2 LEL @ 2%		
	OXY @ 5% 4000, #3 LEL @ 4% OXY @ 7%		
	4000, ALSO #4 200 GAL WASTE OIL		
	@ LEL @ 2%, OXY @ 6.5-7.0 %		

A REINSPECTION WILL BE MADE WITHIN 0 DAYS.

FIRE PREVENTION BUREAU / PHONE 273-3851

INSPECTOR [signature]

338-5 (Rev. 5-77)

CHROMALAB, INC.

Environmental Services (SDB)

July 6, 1994 *Submission #:* 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H *Project#:* 89477.00
Received: June 27, 1994

re: 8 samples for Gasoline and BTEX analysis.

Matrix: SOIL
Sampled: June 27, 1994 *Lab Run#:* 3265 *Analyzed:* July 1, 1994
Method: EPA 5030/8015M/8020

Lab #	SAMPLE ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
55815	AB-1	N.D.	N.D.	N.D.	N.D.	N.D.
55816	BB-1	3.4	12	68	75	320
55817	CB-1	12	N.D.	N.D.	29	40
55820	AB-2	N.D.	N.D.	N.D.	N.D.	N.D.
55821	BB-2	15	8.8	160	170	980

Matrix: SOIL
Sampled: June 27, 1994 *Lab Run#:* 3284 *Analyzed:* July 5, 1994
Method: EPA 5030/8015M/8020

Lab #	SAMPLE ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
55819	SP-1A,B,C	1600	870	12000	14000	77000
55822	CB-2	24	N.D.	N.D.	39	56
55823	SP-2A,B,C	N.D.	N.D.	N.D.	N.D.	N.D.
DETECTION LIMITS		1.0	5.0	5.0	5.0	5.0
BLANK		N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY(%)		90	104	109	102	108

ChromaLab, Inc.

Billy Thach
Chemist

Ali Kharrazi
Organic Manager

BILLY 13:33:27

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

July 5, 1994 *Submission #:* 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H *Project#:* 89477.00
Received: June 27, 1994

re: 1 sample for Diesel analysis

Matrix: SOIL
Sampled: June 27, 1994 *Analyzed:* July 1, 1994

RESULTS:

Sample I.D.	Diesel (mg/Kg)
DB-1	N.D.
BLANK	N.D.
SPIKE RECOVERY	84%
DUP SPIKE RECOVERY	99%
DETECTION LIMIT	1.0
METHOD OF ANALYSIS	3550/8015

ChromaLab, Inc.

Sirirat Chullakorn
Analytical Chemist

Ali Kharrazi
Organic Manager

gg

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

July 6, 1994 *Submission #:* 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H *Project#:* 89477.00
Received: June 27, 1994

re: 1 sample for Oil & Grease analysis

Matrix: SOIL
Sampled: June 27, 1994 *Analyzed:* July 1, 1994

RESULTS:

Sample I.D.	Oil & Grease (mg/Kg)
DB-1	N.D.
BLANK	N.D.
DETECTION LIMIT	50
METHOD OF ANALYSIS	STD METHOD 5520 E & F

ChromaLab, Inc.

Carolyn M. House
Analyst

Ali Kharrazi
Organic Manager

gg

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(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

July 7, 1994 *Submission #:* 9406323

RUST E&I
Atten: ROBERT SERAFIN
Project: MAR-WO2H *Project#:* 89477.00
Received: June 27, 1994
re: One sample for Volatile Organic Compounds analysis.

Sample: **DB-1** *Matrix:* SOIL
Sampled: June 27, 1994 *Lab#:* 55818 *Run:* 3315 *Analyzed:* July 2, 1994
Method: EPA 8240/8260

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	25	N.D.	--
BENZENE	N.D.	5.0	N.D.	67
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
BROMOFORM	N.D.	5.0	N.D.	--
BROMOMETHANE	N.D.	5.0	N.D.	--
2-BUTANONE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
CHLOROBENZENE	N.D.	5.0	N.D.	99
CHLOROETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYLVINYLETHER	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
CHLOROMETHANE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	93
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	--
ETHYL BENZENE	N.D.	5.0	N.D.	--
2-HEXANONE	N.D.	5.0	N.D.	--
METHYLENE CHLORIDE	N.D.	25	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	--
STYRENE	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	--
TOLUENE	N.D.	5.0	N.D.	104
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	99
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
VINYL ACETATE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
XYLENES (TOTAL)	N.D.	5.0	N.D.	--

ChromaLab, Inc.

Aaron McMichael
Chemist

Ali Kharrazi
Organic Manager

DATA\AARON 15:0

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

July 21, 1994 *Submission #:* 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H *Project#:* 89477.00
Received: June 27, 1994

re: 2 samples for reactivity, corrosivity, and ignitability (RCI) analyses.

Matrix: SOIL
Sampled: June 27, 1994 *Analyzed:* July 21, 1994
Method: CA Title 22 SEC.66261.23(1-4)

Sample #	Client Sample ID	Reactivity	Corrosivity	Ignitability
55819	SP1 ABC	No	pH 8.4	No
55823	SP2 ABC	No	pH 9.0	No
Blank		No	pH 7.0	No

ChromaLab, Inc.

Carolyn M. House
Analyst

Ali Kharrazi
Organic Manager

gg

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

July 5, 1994 *Submission #:* 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H *Project#:* 89477.00
Received: June 27, 1994

re: 8 samples for Lead analysis.

Matrix: SOIL *Extracted:* July 5, 1994
Sampled: June 27, 1994 *Lab Run#:* 3287 *Analyzed:* July 5, 1994
Method: EPA 3050/7420

LAB #	SAMPLE ID	LEAD (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
55815	AB-1	8.0	0.5	N.D.	93
55816	BB-1	5.9	0.5	N.D.	93
55817	CB-1	6.9	0.5	N.D.	93
55819	SP-1A,B,C	14	0.5	N.D.	93
55820	AB-2	8.5	0.5	N.D.	93
55821	BB-2	10.0	0.5	N.D.	93
55822	CB-2	9.3	0.5	N.D.	93
55823	SP-2A,B,C	14	0.5	N.D.	93

ChromaLab, Inc.

Charles Woolley
Chemist

Eric Tam
Laboratory Director

CHARLES 10:03:31

2239 Omega Road,#1 • San Ramon, California 94583
(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

July 27, 1994 *Submission #:* 9407073

RUST E&I

Atten: Robert Serafin

Project: MARR TANK EXC. *Project#:* MAR-W02H
Received: July 7, 1994

re: 13 samples for Gasoline and BTEX analysis.

Matrix: SOIL
Sampled: July 6, 1994 *Lab Run#:* 3360 *Analyzed:* July 11, 1994
Method: EPA 5030/8015M/8020

Spl #	CLIENT SMPL ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
56976	SW-1	9.5	8.3	N.D.	58	81
56977	SW-2	N.D.	N.D.	N.D.	N.D.	N.D.
56978	SW-3	N.D.	N.D.	N.D.	N.D.	N.D.
56979	SW-4	N.D.	N.D.	N.D.	N.D.	N.D.
56980	SW-5	N.D.	N.D.	N.D.	N.D.	N.D.
56981	SW-6	210	400	990	2800	11000
56982	SW-7	250	120	120	330	480
Note: MATRIX INTERFERENCE VERIFIED BY RE-ANALYSIS						
56983	SW-8	N.D.	N.D.	N.D.	N.D.	N.D.

Matrix: SOIL
Sampled: July 6, 1994 *Lab Run#:* 3382 *Analyzed:* July 13, 1994
Method: EPA 5030/8015M/8020

Spl #	CLIENT SMPL ID	Gasoline (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)
56984	SW-9	N.D.	N.D.	N.D.	N.D.	N.D.
56985	SW-10	5.4	N.D.	N.D.	20	37
56986	SW-11	8.2	15	N.D.	16	23
Note: MATRIX INTERFERENCE VERIFIED BY RE-ANALYSIS						
56987	SW-12	22	N.D.	N.D.	42	34
Note: MATRIX INTERFERENCE VERIFIED BY RE-ANALYSIS						
56988	SW-13	1.8	N.D.	N.D.	N.D.	N.D.
Reporting Limits		0.0	5.0	5.0	5.0	5.0
Blank Result		N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)		111	110	114	111	107

ChromaLab, Inc.

Jack Kelly
Chemist

Ali Kharrazi
Organic Manager

QCAPP JACK 14:36:10

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(510) 831-1788 • Facsimile (510) 831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

August 17, 1994 Submission #: 9406323

RUST E&I
100 PRINGE AVE #580,1 WALNUT CRK CENTER
WALNUT CREEK, CA 94596

Attn: ROBERT SERAFIN

RE: Analysis for project MAR-WO2H, number 89477.00.

REPORTING INFORMATION

Samples were received cold and in good condition on June 27, 1994. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all testing reported.

No discrepancies were observed or difficulties encountered with the testing.

SAMPLES TESTED IN THIS REPORT

Client Sample ID	Matrix	Date collected	Sample #
AB-1	SOIL	June 27, 1994	55815
BB-1	SOIL	June 27, 1994	55816
CB-1	SOIL	June 27, 1994	55817
DB-1	SOIL	June 27, 1994	55818
SP-1A,B,C	SOIL	June 27, 1994	55819
AB-2	SOIL	June 27, 1994	55820
BB-2	SOIL	June 27, 1994	55821
CB-2	SOIL	June 27, 1994	55822
SP-2A,B,C	SOIL	June 27, 1994	55823

Jill Thomas
Quality Assurance Manager

Eric Tam
Laboratory Director

2239 Omega Road,#1 • San Ramon, California 94583
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Federal ID #68-0140157

16:01:02 COVERLET

CHROMALAB, INC.

Environmental Services (SDB)

July 28, 1994 *Submission #:* 9406323

RUST E&I

Attn: ROBERT SERAFIN

Project: MAR-WO2H *Project#:* 89477.00
Submitted: June 27, 1994

re: **MATRIX SPIKE** report for Gasoline and BTEX analysis.

Matrix: SOIL
Run number: 3265
Method: EPA 5030/8015M/8020 *Analyzed on:* July 1, 1994

Analyte	Spiked Sample Result	Spike Amt.	% Spike Rec	Dup. Spike Rec	Control Limits	% RPD	% RPD Lim
GASOLINE	N.D. mg/Kg	5.0 mg/Kg	118	--	80-118	N/A	20
BENZENE	N.D. ug/Kg	25 ug/Kg	97.0	94.0	80-127	3.1	20
TOLUENE	N.D. ug/Kg	25 ug/Kg	97.0	95.0	81-122	2.1	20
ETHYL BENZENE	N.D. ug/Kg	25 ug/Kg	98.0	96.0	81-119	2.1	20
XYLENES	N.D. ug/Kg	75 ug/Kg	97.0	95.0	83-118	2.1	20
TRIFLUOROTOLUENE	100 ng	100 ng	103	99.0	80-120	4.0	20

Sample spiked: *Spl #:* 55815
Submission #: 9406323
Client Sample ID: AB-1

QCAPPL2 15:40:37

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CHROMALAB, INC.

Environmental Services (SDB)

July 28, 1994

*Submission #:*9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H
Submitted: June 27, 1994

Project#: July 1, 1994

re: **SURROGATE** results for Gasoline and BTEX analysis.

Matrix: SOIL
Run number: 3265
Method: EPA 5030/8015M/8020

Analyzed on: July 1, 1994

Spl #	Client Sample ID	Surrogate	% Recov	Control Limits
55815	AB-1	TRIFLUOROTOLUENE	101	80-120

BURROG 14:09:50

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Federal ID #68-0140157

CHROMALAB, INC.

Environmental Services (SDB)

July 28, 1994

*Submission #:*9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H
Submitted: June 27, 1994

Project#: July 1, 1994

re: **SURROGATE** results for Gasoline and BTEX analysis.

Matrix: SOIL
Run number: 3265
Method: EPA 5030/8015M/8020

Analyzed on: July 1, 1994

Spl #	Client Sample ID	Surrogate	% Recov	Control Limits
55815	AB-1	TRIFLUOROTOLUENE	101	80-120
55816	BB-1	TRIFLUOROTOLUENE	110	80-120
55817	CB-1	TRIFLUOROTOLUENE	98	80-120
55819	SP-1A,B,C	TRIFLUOROTOLUENE	92	80-120
55820	AB-2	TRIFLUOROTOLUENE	88	80-120
55821	BB-2	TRIFLUOROTOLUENE	106	80-120
55822	CB-2	TRIFLUOROTOLUENE	128*	80-120
55823	SP-2A,B,C	TRIFLUOROTOLUENE	115	80-120

* Other compound co-eluted with trifluorotoluene. Coelution was verified by re-analysis.

SURROG T5:5

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CHROMALAB, INC.

Environmental Services (SDB)

July 28, 1994

Submission #: 9406323

RUST E&I

Attn: ROBERT SERAFIN

Project: MAR-WO2H

Project#: 89477.00

Submitted: June 27, 1994

re: **MATRIX SPIKE** report for Lead analysis.

Matrix: SOIL
Run number: 3287
Method: EPA 3050/7420

Extracted: July 5, 1994
Analyzed on: July 5, 1994

Analyte	Spiked Sample Result	Spike Amt.	% Spike Rec	Dup. Spike Rec	Control Limits	% RPD	% RPD Lim
LEAD	8.0 mg/Kg	5.0 mg/Kg	94.6	90.9	70-130	4.0	20

Sample spiked: *Spl #:* 55815
Submission #: 9406323
Client Sample ID: AB-1

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CHROMALAB, INC.

Environmental Services (SDB)

August 17, 1994 *Submission #:* 9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H *Project#:* 89477.00
Submitted: June 27, 1994

re: MATRIX SPIKE report for Volatile Organic Compounds analysis.

Matrix: WATER
Run number: 3315
Method: EPA 624 *Analyzed:* July 2, 1994

Analyte	Spiked Sample Result	Spike Amt. (µg/L)	% Spike Rec	Dup. Spike Rec	Control Limits	% RPD	% RPD Lim
BENZENE	Not Reported	20	95.0	95.0	60-140	0.0	20
CHLOROBEBZENE	Not Reported	20	106	111	60-140	4.6	20
1,1-DICHLOROETHENE	Not Reported	20	123	125	56-118	1.6	20
TOLUENE	Not Reported	20	106	106	60-140	0.0	20
TRICHLOROETHENE	Not Reported	20	97.0	99.0	60-129	2.0	20

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CHROMALAB, INC.

Environmental Services (SDB)

August 12, 1994 *Submission #:*9406323

RUST E&I

Atten: ROBERT SERAFIN

Project: MAR-WO2H *Project#:* July 2, 1994
Submitted: June 27, 1994

re: **SURROGATE** results for Volatile Organic Compounds analysis.

Matrix: SOIL
Run number: 3315 *Analyzed on:* July 2, 1994
Method: EPA 8240/8260

Spl #	Client Sample ID	Surrogate	% Recov	Control Limits
55818	DB-1	1,2-DICHLOROETHANE-D4	103	80-120
55818		4-BROMOFLUOROBENZENE	85	80-120
55818		TOLUENE-D8	103	80-120

SURROG T5:15

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Federal ID #68-0140157

GENERAL CHEMISTRY-QUALITY CONTROL

Date: July 27, 1994
Client: RUST E&I
Project: MAR-WO2H

Submission #: 9406323
Method: Reactivity,Corrosivity,and Ignitability
Method #: Title 22 sec. 66702-66708
Matrix: Soil

DUPLICATE RESULTS

Sample duplicated: SP-1 A,B,C

PARAMETER	UNITS	SAMPLE RESULT	DUP RESULT	DIFFERENCE	DIFFERENCE LIMIT
pH	units	8.42	8.40	.02	0.05

CALIBRATION
pH meter calibrated at pH 7.0 and 10.0.

GENERAL CHEMISTRY-QUALITY CONTROL

Date: August 17, 1994
Client: RUST E&I
Project: MAR-WO2H

Submission #: 9406323
Method: OIL & GREASE
Method #: EPA 5520 E&F
Matrix: SOIL
Reporting Limit: 10 mg/Kg

MS/MSD Sample ID : Blank

PARAMETER	UNITS	SAMPLE RESULT	SPIKE CONC	SPIKED SAMPLE RESULT	% REC	DUP SPIKE RESULT	DUP SPIKE %REC	% RPD	RPD LIMIT
OIL & GREASE	mg/Kg	N.D.	20	21.2	106	20.8	104	1.9	20

% Recovery = (Spike Sample Result-Sample Result)*100/Spike Concentration
RPD (Relative % Difference) = (Spike Result-Duplicate Result)*100/Average Result

CHROMALAB, INC.
Environmental Services (SDB)

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS-QUALITY CONTROL

Date: July 29, 1994
Client: RUST E&I
Project: MAR-WO2H

Submission #: 9406323
Method: TEPH
Method number: EPA 8015

SURROGATE RECOVERIES

Sample #	Client Sample ID	o-Terphenyl %
55818	DB-1	82
Blank		79%
Blank Spike		87%

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CHROMALAB, INC.

Environmental Services (SDB)

July 28, 1994 Submission #: 9407073

RUST E&I
100 PRINGE AVE #580,1 WALNUT CRK CENTER
WALNUT CREEK, CA 94596

Attn: Robert Serafin

RE: Analysis for project MARR TANK EXC., number MAR-W02H.

REPORTING INFORMATION

Samples were received cold and in good condition on July 7, 1994. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all testing reported.

No discrepancies were observed or difficulties encountered with the testing.

SAMPLES TESTED IN THIS REPORT

Client Sample ID	Matrix	Date collected	Sample #
SW-1	SOIL	July 6, 1994	56976
SW-2	SOIL	July 6, 1994	56977
SW-3	SOIL	July 6, 1994	56978
SW-4	SOIL	July 6, 1994	56979
SW-5	SOIL	July 6, 1994	56980
SW-6	SOIL	July 6, 1994	56981
SW-7	SOIL	July 6, 1994	56982
SW-8	SOIL	July 6, 1994	56983
SW-9	SOIL	July 6, 1994	56984
SW-10	SOIL	July 6, 1994	56985
SW-11	SOIL	July 6, 1994	56986
SW-12	SOIL	July 6, 1994	56987
SW-13	SOIL	July 6, 1994	56988

Jill Thomas
Quality Assurance Manager

Eric Tam
Laboratory Director

2239 Omega Road,#1 • San Ramon, California 94583
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Federal ID #68-0140157

14:18:47 LIMS

CHROMALAB, INC.

Environmental Services (SDB)

July 27, 1994 *Submission #:* 9407073

RUST E&I

Attn: Robert Serafin

Project: MARR TANK EXC. *Project#:* MAR-W02H
Submitted: July 7, 1994

re: **MATRIX SPIKE** report for Gasoline and BTEX analysis.

Matrix: SOIL
Run number: 3360
Method: EPA 5030/8015M/8020 *Analyzed on:* July 11, 1994

Analyte	Spiked Sample Result	Spike Amt.	% Spike Rec	Dup. Spike Rec	Control Limits	% RPD	% RPD Lim
GASOLINE	N.D. mg/Kg	5.0 mg/Kg	117	--	80-118	N/A	20
BENZENE	N.D. ug/Kg	25 ug/Kg	104	95.0	80-127	9.0	20
TOLUENE	N.D. ug/Kg	25 ug/Kg	112	104	81-122	7.4	20
ETHYL BENZENE	N.D. ug/Kg	25 ug/Kg	109	92.0	81-119	17	20
XYLENES	N.D. ug/Kg	75 ug/Kg	105	93.3	83-118	12	20
TRIFLUOROTOLUENE	99 ng	100 ng	108	118	80-120	8.8	20

Sample spiked: *Spl #:* 56983
Submission #: 9407073
Client Sample ID: SW-8

QCAPPL2 14:32:11

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CHROMALAB, INC.

Environmental Services (SDB)

July 29, 1994 *Submission #:* 9407073

RUST E & I

Atten: Robert Serafin

Project: MARR TANK EXC. *Project#:* MAR-W02H
Submitted: July 7, 1994

re: **SURROGATE** results for Gasoline and BTEX analysis.

Matrix: SOIL
Run number: 3360 *Analyzed on:*July 11, 1994
Method: EPA 5030/8015M/8020

Sample #	Client Sample ID	Surrogate	Recovery %
56976	SW-1	TRIFLUOROTOLUENE	135
56977	SW-2	TRIFLUOROTOLUENE	102
56978	SW-3	TRIFLUOROTOLUENE	103
56979	SW-4	TRIFLUOROTOLUENE	106
56980	SW-5	TRIFLUOROTOLUENE	99
56981	SW-6	TRIFLUOROTOLUENE	106
56982	SW-7	TRIFLUOROTOLUENE	44
56983	SW-8	TRIFLUOROTOLUENE	99
56984	SW-9	TRIFLUOROTOLUENE	114
56985	SW-10	TRIFLUOROTOLUENE	103
56986	SW-11	TRIFLUOROTOLUENE	152
56987	SW-12	TRIFLUOROTOLUENE	137
56988	SW-13	TRIFLUOROTOLUENE	92

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Federal ID #68-0140157

Wahler Associates
1023 Corporation Way
P.O. Box 10023
~~Palo Alto, CA~~ 94303 Walnut Creek
FAX: (415) 968-5365
(415) 968-6250

CHAIN OF CUSTODY FORM

Laboratory: Chromalab
Turnaround Time: 5-day
Results To: Robert Serafin

Serial Number: [redacted]
WA Authorization: [redacted]
Sheet 1 of 2
Samplers: [redacted]
Recorder: Robert Serafin (signature required)

73/56976 - 56988

Project: MARR Tank Exc.
Job Number: MAR-W02H
Project Manager: Robert Serafin
Date: 7/7/1994

SUBM #: 9407073
CLIENT: WAHLER-PA
DUE: 07/14/94
REF: 17149

ITEM NO.	SAMPLE NUMBER	DATE AND TIME SAMPLED: Date	Time	MATRIX	# CONTAINERS & PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl			ANALYSIS R: TPH-G	BTEX						COMMENTS
1	SW-1	7/6/94	1:25p	Soil							X	X						
2	SW-2		1:35p								X	X						
3	SW-3		1:50p								X	X						
4	SW-4		1:59p								X	X						
5	SW-5		2:10p								X	X						
6	SW-6		2:20p								X	X						
7	SW-7		2:30p								X	X						
8	SW-8		2:40p								X	X						
9	SW-9		2:44p								X	X						
10	SW-10		2:56p								X	X						
11	SW-11		3:01p								X	X						
12	SW-12		3:16p								X	X						

MISCELLANEOUS

Number of Coolers	Type of Coolant

COMMENTS: Please hold samples after completion of above indicated analyses for additional possible analysis.

LABORATORY COPY WHITE PROJECT COPY YELLOW FIELD or OFFICE COPY PINK

CHAIN OF CUSTODY RECORD

Relinquished by: (signature & affiliation)	Date/Time	Received by: (signature & affiliation)	Date/Time
Robert Serafin for Wahler	7/7/94 3:30pm	[signature]	7/7/94 15:30
Relinquished by: (signature & affiliation)	Date/Time	Received by: (signature & affiliation)	Date/Time
Relinquished by: (signature & affiliation)	Date/Time	Received by: (signature & affiliation)	Date/Time
Relinquished by: (signature & affiliation)	Date/Time	Received by: (signature & affiliation)	Date/Time
Dispatched by: (signature & affiliation)	Date/Time	Received for lab by:	Date/Time

Wanlier Associates
1023 Corporation Way
P.O. Box 10023
Palo Alto, CA 94303
FAX: (415) 968-5365
(415) 968-6250

CHAIN OF CUSTODY FORM

Laboratory: Chromalab
Turnaround Time: 5-day
Results To: Robert Serafin

Serial Number: [redacted]
WA Authorization:
Sheet 2 of 2
Samplers:
Recorder: [signature] signature required

Project: MARR Tank Exc.
Job Number: MAR-W02H
Project Manager: Robert Serafin
Date: 7/7/1994

ITEM NO	SAMPLE NUMBER	DATE AND TIME SAMPLED: Date	Time	MATRIX	# CONTAINERS & PRESERVATIVES: UNPRESERVED	H_2SO_4	HNO_3	HCl			ANALYSIS REQUESTED / TYPE OF CONTAINER: TPH-G	BTEX					COMMENTS
1	SW-13	7/6/94	3:25p	Soil							x	x					
2	[redacted]																
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

MISCELLANEOUS

Number of Coolers	Type of Coolant

COMMENTS: See comments on page 1

LABORATORY COPY WHITE PROJECT COPY YELLOW FIELD or OFFICE COPY PINK

CHAIN OF CUSTODY RECORD

Relinquished by: (signature & affiliation)	Date/Time	Received by: (signature & affiliation)	Date/Time
Robert Serafin for WSHW	7/7/94	[signature]	7/7/94
Relinquished by: (signature & affiliation)		Received by: (signature & affiliation)	Date/Time
Relinquished by: (signature & affiliation)		Received by: (signature & affiliation)	Date/Time
Relinquished by: (signature & affiliation)		Received by: (signature & affiliation)	Date/Time
Dispatched by: (signature & affiliation)	Date/Time	Received for lab by:	Date/Time

Wahler Associates
1023 Corporation Way
P.O. Box 10023
~~Palo Alto, CA 94303~~ Walnut Creek
FAX: (415) 968-5365
(415) 968-6250

CHAIN OF CUSTODY FORM

Laboratory: Chromalab
Turnaround Time: 5-Day
Results To: Robert Serafin

Serial Number:
WA Authorization:
Sheet 1 of 2

SUBM #: 9406323
CLIENT: WAHLER-WC
DUE: 07/05/94
REF: 17032

Project: MAR-W02H
Job Number: 89477.000
Project Manager: Robert Serafin
Date: 6/27/1994

ITEM NO.	SAMPLE NUMBER	Date	Time	MATRIX	UNPRESERVED	H_2SO_4	HNO_3	HCl	TPH-G	BTEX	TPH-D	EPA 8240	Total Lead	TOG	COMMENTS
1	AB-1	6/27/94	2:10p	Soil					X	X			X		
2	BB-1	6/27/94	1:25p	Soil					X	X			X		
3	CB-1	6/27/94	1:35p	Soil					X	X			X		
4	DB-1	6/27/94	2:15p	Soil							X	X		X	
5	SP-1A	6/27/94	2:20p	Soil					X	X			X		
6	AB-2	6/27/94	1:20p	soil					X	X			X		
7	BB-2	6/27/94	1:50p	soil					X	X			X		
8	CB-2	6/27/94	1:57p	soil					X	X			X		
~~9~~	~~DB-2~~	~~6/27/94~~		~~soil~~							~~X~~	~~X~~		~~X~~	
10	SP-2A	6/27/94	2:40p	soil					X	X			X		
11	SP-2B	6/27 〃	2:35	〃											
12	SP-2C	6/27 〃	2:30p	〃											

MISCELLANEOUS

Number of Coolers	Type of Coolant

COMMENTS:
Composite as one, as follows:
SPC-1A, 1B, 1C → as one
SPC-2A, 2B, 2C → as one

LABORATORY COPY WHITE | PROJECT COPY YELLOW | FIELD or OFFICE COPY PINK

CHAIN OF CUSTODY RECORD

Relinquished by: (signature & affiliation)	Date/Time	Received by: (signature & affiliation)	Date/Time
Robert Serafin for Wahler	6/27/94	[signature]	6-27-94 7:28
Relinquished by: (signature & affiliation)		Received by: (signature & affiliation)	Date/Time
Relinquished by: (signature & affiliation)		Received by: (signature & affiliation)	Date/Time
Relinquished by: (signature & affiliation)		Received by: (signature & affiliation)	Date/Time
Dispatched by: (signature & affiliation)	Date/Time	Received for lab by:	Date/Time

CHROMALAB, INC.

DOHS 1094

2239 Omega Road, #1 • San Ramon, California 94583
510/831-1788 • Facsimile 510/831-8798

Chain of Custody

DATE 6/27/94 PAGE 2 OF 2

PROJ. MGR. Robert Serafin
COMPANY Wahler Associates
ADDRESS Walnut Creek office.

SAMPLERS (SIGNATURE) (PHONE NO.)

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)		METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)				NUMBER OF CONTAINERS
SP-1B	6/27	2:30p	soil		X			X												X					
SP-1C	6/27	2:25p	"		X			X												X					

PROJECT INFORMATION

PROJECT NAME:
PROJECT NUMBER:
P.O. #

SAMPLE RECEIPT

TOTAL NO. OF CONTAINERS	
HEAD SPACE	
REC'D GOOD CONDITION/COLD	
CONFORMS TO RECORD	

TAT	STANDARD 5-DAY			24	48	72	OTHER

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY 1.	RELINQUISHED BY 2.	RELINQUISHED BY 3.
Robert Serafin for Wahler 6/27/94		
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
(COMPANY)	(COMPANY)	(COMPANY)
RECEIVED BY 1	**RECEIVED BY 2.**	**RECEIVED BY (LABORATORY) 3.**
R. Mallow 1428		
(SIGNATURE) (TIME)	(SIGNATURE) (TIME)	(SIGNATURE) (TIME)
R. Mallow 6-27-94		
(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)	(PRINTED NAME) (DATE)
Chromalab		
(COMPANY)	(COMPANY)	(LAB)

SOIL SAMPLING PROTOCOL

A. GENERAL

1. Any materials supplied by the client will reduce the cost of our work. These may include tap water, 55-gallon drums, and DI-water. Arrangements will be made before the start of the project.

2. Chemical sampling procedures and sample storage will be conducted under the direction of our consulting laboratory or a consulting analytical chemist.

3. All equipment used during the sampling process will be thoroughly steam-cleaned prior to its use.

4. All samples will be stored in an ice chest and packed in blue ice or ice in such a manner as to prevent sample immersion in melted ice.

5. All samples will be delivered to the consulting laboratory as soon as possible after collection.

6. All sample containers will be opened only by the consulting laboratory which performs the chemical testing.

B. SOIL SAMPLES

1. Soil samples will be attempted at 5-foot intervals or more frequently as determined in the field.

2. Sample container cleaning blanks may be taken of the steam-cleaned brass liners for quality control purposes at the rate of one per boring.

3. All soil sampling equipment will be disassembled and thoroughly steam-cleaned prior to each usage.

4. The ends of all soil sample liners will be covered with aluminum foil and an air-tight cap which will be wrapped with aluminized tape and properly labeled. All soil samples will be immediately stored in an ice chest and packed with blue ice or ice in such a manner as to prevent immersion in melted ice.

5. All excess soils will be place in 55-gallon drums for proper disposal.

6. The center of each soil liner will be extracted at the consulting laboratory for appropriate analysis.

C. SAMPLE RECORDS AND CUSTODY

1. Records will be maintained for all samples collected by Wahler Associates.

2. A positive chain-of-custody record will be maintained by Wahler Associates for future reference.

3. All records will be maintained under strict confidence by Wahler Associates and will be released only by written authorization of the client.