

ENVIRONMENTAL ENGINEERS

1190 SOUTH SECOND ST. SUITE 5, SAN JOSE, CA. 95112 (408) 295-3450

March 31st, 1988

Ms. Liz Rose Hazardous Materials Specialist Alameda County Health Agency 470 - 27th st., Room 322 Oakland, CA 94612

Refer: Soil and ground water investigation, Oliver Rubber Co., 1200 65th st., Emiryville, CA.

Dear Ms. Rose:

Enclosed please find Environmental Engineers soil and ground water investigation report, conducted adjoining to the two underground tanks, located at 1200 65th st., Emiryville, California.

Based on Alameda County Health Agency's requirements, Environmental Engineers will assist Oliver Rubber Co. for requisite site remediation, if any.

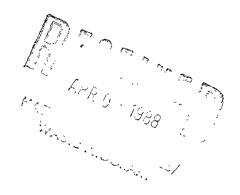
Should you have any questions or need any additional information, we will be glad to assist you. Please feel free to call at (408) 295-3450. Thank you.

JOE PANDIT

President,

Registered Civil Engineer.

cc: Mr. Neil Arnolds, Oliver Rubber Co.





ENVIRONMENTAL ENGINEERS

1190 SOUTH SECOND ST. SUITE 5, SAN JOSE, CA. 95112 (408) 295-3450

March 31st, 1988

Mr. Niel Arnolds Manager Oliver Rubber Co. 1200 Sixty Fifth Street Emeryville , CA 94662

Reference: Soil and Ground water Sampling Adjoining Two Underground Storage Tanks.

Dear Mr. Arnolds:

Environmental Engineers are pleased to submit this summary of soil and ground water investigation adjoining the two underground 8,000 gallon storage tanks, located on the Oliver Rubber Co. facilities, at 1200 Sixty Fifth Street, Emeryville, California.

The purpose of the present investigation was to evaluate the halogenated and aromatic volatile organic concentration levels in the soils and shallow ground water adjoining the underground tanks. The tanks are reported to have stored organic solvent (thinner, commercially known as rubber solvent; Shell 200) and gasoline, respectively.

DRILLING AND SAMPLE COLLECTION

A total of four soil borings were drilled. Three borings (B1,B2 and B3), were located south of the tanks and fourth boring (B4) was drilled west of the tanks. All the soil borings were drilled to depths of 10 feet, and as close to the underground tanks as permitted by the site conditions. For boring locations, please refer to attached Figure 1.

In each of the soil borings moist to wet soil conditions were encountered beyond 10 foot depths. Ground water levels in all the soil borings were measured at approximately (10.5 feet) below ground surface. One soil sample immediately above the soil-ground water interface was collected from each of the soil boring. In addition, one ground water grab sample from each of the soil boring was also collected. The depth to tank bottom was measured at 13.5 feet below ground surface.

A truck-mounted, continuous-flight, hollow-stem auger (8 inch diameter) was used to perform the drilling. Drilling equipment, such as the hollow-stem augers and drill bits were thoroughly steam cleaned prior to start

of the drilling. To prevent cross contamination from one boring location to another, hollow-stem augers were changed. All sampling tools (i.e, split-spoon sampler, brass sleeves) and drill bits were washed in a trisodium phosphate (TSP) solution and rinsed in clean water, prior to recovering soil samples from the individual soil borings.

SOIL SAMPLING:

Upon drilling to desired sampling depth, the split-spoon sampler was lowered through the hollow-stem opening. By advancing the soil sampler, a relatively undisturbed soil sample was collected in 2 inch diameter brass sleeves. Soil samples were logged at site by registered civil engineer and any odor or peculiar colors suggesting possible contamination were noted. No unusual vapors or soil discoloration were noted during drilling and sample collection. Appendix A gives a general soil description of all four soil borings.

All the soil samples collected in the brass sleeves were wrapped in aluminum foil, capped, labeled and immediately placed on Blue Ice, in order to minimize the loss of any volatile contaminants that may be present in the soil samples.

GROUND WATER (GRAB) SAMPLING:

Four ground water grab samples were collected by using a clean bailer. Prior to collection of grab ground water samples, the hand bailer was cleaned each time by a TSP solution followed by a thorough rinse of clean water. The ground water samples were turbid (as expected) and contained suspended sediments. Ground water samples were collected in 40 milliliter volatile organic analysis glass bottles, fitted with the teflon lined screw type caps. Sampling bottles were checked for presence of air bubbles, prior to labeling and refrigeration.

All samples collected were sent on ice to a State Certified hazardous waste testing laboratory, accompanied by a Sample Chain of Costody Record.

ANALYTICAL TESTS

Two soil samples B1-S10 and B2-S10 collected from depths of 10 feet adjoining 8000 gallon solvent tank

'(Tank # 1) were analysed individually for halogenated volatile organics by E.P.A Test Method 8010. Ground water samples B1-W and B2-W collected from these borings were individually analysed by E.P.A Test Method 601.

Soil samples B3-10 and B4-10 collected from borings adjoining 8000 gallon gasoline tank (Tank # 2) were analysed for prsence of total petroleum hydrocarbons (TPH) including benzene, toluene, xylene and ethyl benzene by E.P.A Test Method 5030/8015. Grab ground water samples collected from these borings were analysed for presence of aromatic volatile organics by E.P.A Test Method 602.

A copy of the certified analytical test results, as received from the laboratory, is enclosed in Appendix B.

Soils:

Soil samples collected from borings adjoining solvent tank did not indicate presence of any organic solvents. The detected concntrations were below the instrumentation detection limit of 50 parts per billion (ppb) as indicated by the less than symbol in front of the quantitative value. However soil sample collected from boring #3, adjoining gasoline tank, did indicate presence of light to medium boiling point hydrocarbons at concentration level of 48 parts per million (ppm). No other fuel related products were detected in the soil sample collected from boring #4%

Ground Water:

Test results of water samples collected from borings #1 and #2 did not reveal presence of volatile organics adjoining the solvent tank. However ground water tests of borings #3 and #4 indicated presence of total hydrocarbons deteted as gasoline at concentration levels of 6400 and 6800 ppb, respectively. In addition, varying levels of benzene, toluene, xylenes and ethyl benzene were detected in water samples B3-W and B4-W at concentrations of 3.00, 4.30, 2.40, 3.30 ppb and 73.00, 2.30, 23.00, 17.00 ppb, respectively.

Table 1 attached, summarises all the detectable concentrations.

DISCUSSION:

Based on the Regional Water Quality Control Board of San Francisco Bay Region (RWQCB-SFBR) guidelines for

'addressing fuel leaks," If free product is present on the ground water, its extent should be characterized and it should be removed in virtually all instances where more than 1/4 inch of free product is measured in a properly constructed monitering well. Where less than 1/4 inch represents a health threat or a public nuisance, available remedial measures will be evaluated and appropriate remediation will be required." In " An Interim Guidance for Hazardous Substance Site Cleanup" published by the California State Water Resources Control Board, drinking water standards and health advisories have been listed for certian chemicals. These standards include California Department of Health Services (DOHS) action levels and EPA National Ambient Water Quality Criteria (NAWQC). The relevant action levels have been compiled in Table 1, for purposes of comparison only.

Based on these standards, the concentration of benzene in the shallow ground water exceeds the DOHS permissible levels. However, no floating product or sheen in the water samples was observed. The concentration level of 48 ppm of TPH in the soil is below the 100ppm action level limit of CRWQCB-SFBR.

CONCLUSION AND RECOMMENDATIONS:

The analytical test results of soil and ground water samples indicate no evidence of organic solvents. Accordingly Tank # 1 (solvent tank) is considered leak free. Presence of TPH in soil and varying concentration levels of dissolved fuel products in the two ground water samples is believed to be from the nearby fuel tank.

Environmental Engineers recommend installation of one ground water monitoring well, adjacent and downgradient of 8000 gallon fuel tank. Ground water samples collected from the properly developed monitoring well will establish the true levels of TPH and its dissolved constituents in the ground water at this site. Should trace to low level hydrocarbon concentrations be detected, then variance for in-place tank closure may be obtained. However, should the concentration levels indicate otherwise, then a site specific closure plan will need to be prepared. Per requirements of the Alameda County Groundwater Prtotection Ordinance, Environmental Engineers will assist Oliver Rubber CO. in preparing site specific remedial programs (in-place closure/tank removal/soil and ground water clean up) at this site.

Environmental Engineers beleive that the work described above completes the scope of STAGE I investigation at this site. A copy of this investigation report would need to be furnished to the Alameda County Health (Division of Hazardous Materials), 470 27th Street, Oakland, CA 94612.

Should there be any comments or questions concerning the contents of this report, please do not hesitate to contact us.

Sincerely,

ENVIRONMENTAL ENGINEERS

Munir Butt

Mri Shallall.

Senior Hydrogeologist

Joe Pandit

Registered Engineer,

President.

TABLE 1

Summarised analytical test results of soil and ground water samples obtained from four soil borings, located adjacent to the two existing underground tanks, at Oliver Rubber CO., 1200 Sixty Fifth Street, Emmeryville, California.

Method of Analysis:

Soil EPA Test Methods 1) 8010 2) 5020/8015

Water EPA Test Methods 1) 601

2) 602

Boring NO.	Sample I.D		TPH:	BENZEN	E¦'		Œ¦.	XYLEI	NE (BENZENE
B3	B3-S10	SOIL	48;		\$ 1	N.D	;]	N.D]	N.D	
B3	B3-W	WATER		¦ 3.0		i 4.3		•		•	
B4	B4-W	WATER	800;	73.0	1	2.30	:	23	1	17	, ,u
DOHS A	TION LEVI	ELS (wat	er)	0.70		100		620)	i	
EPA NAV	iqc			0.66		1430	0	i		1400)

N.D Not Detected;

No action levels established;

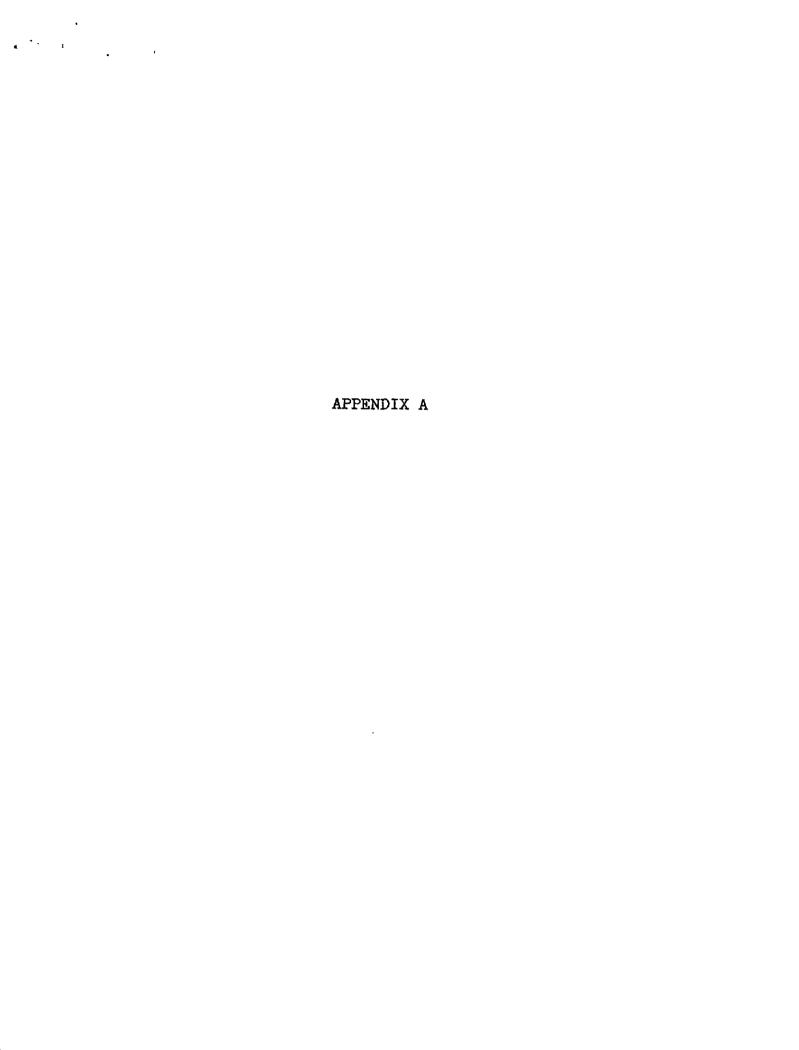
DOHS California Department of Health Services Drinking Water Action Level;

NAWQC National Ambient Water Quality Criteria

Reporting Units:

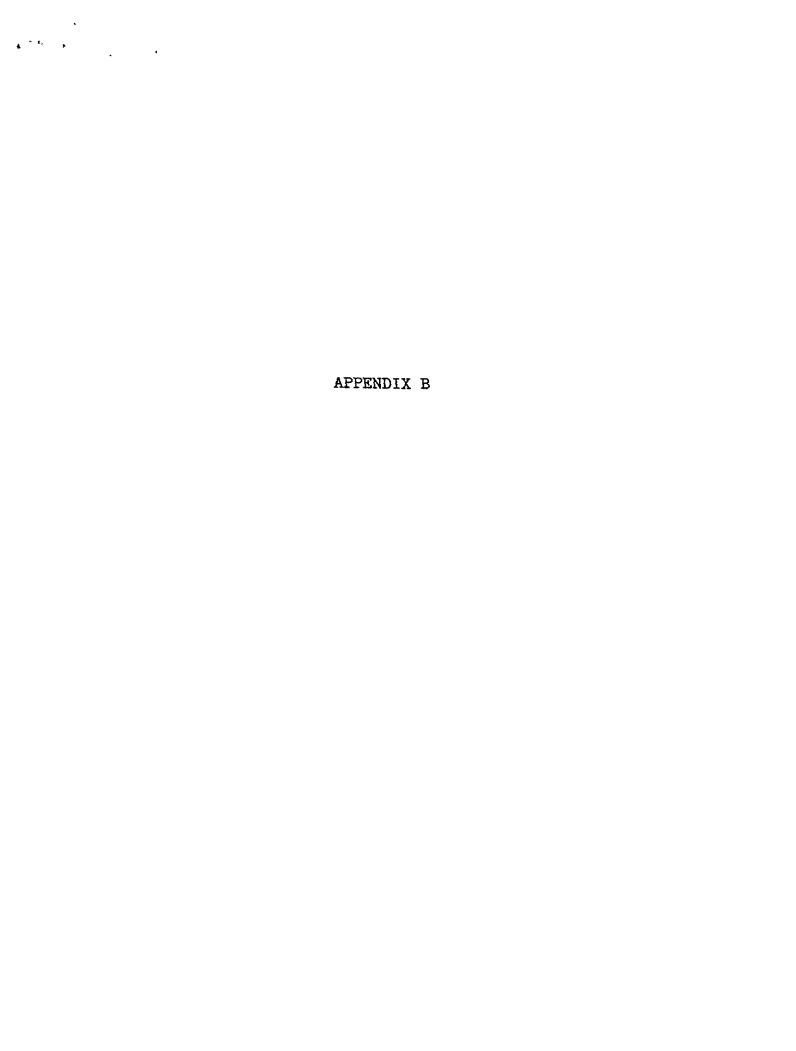
* Parts Per Million; ppm

** Parts Per Billion; ppb



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Attn: Munir Butt

Date Sampled: 02/25/88
Date Received: 02/25/88
Date Analyzed: 03/04/88
Date Reported: 03/17/88

Project: #EE/1, Emeryville, CA

Sample Number

8021988

Sample Description

Water, B2-W

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS results in ppb

Bromomethane Bromodichloromethane Bromoform Carbon Tetrachloride Chloroethane 2-Chloroethylvinyl ether Chloroform Chloromethane Dibromochloromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5	1,2-Dichloropropane	< 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5 < 0.5
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Method of Analysis: EPA 601

SEQUQIA ANALYTICAL LABORATORY

Environmental Engineers 1190 South Second St., Suite 5

San Jose, CA 95112 Attn: Munir Butt Date Sampled: 02/25/88
Date Received: 02/25/88
Date Reported: 03/17/88

Project: #EE/1, Emeryville, CA

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTX DISTINCTION

Sample Number

8021990

Sample Description

Water, B4-W

	Detection Limit	Sample <u>Results</u>
	ppb	ppb
Low to Medium Boiling Point Hydrocarbons	50	6,800
Benzene	0.5	* 73
Toluene	0.5	2.3
Xylenes	0.5	23
Ethyl Benzene	0.5	17

Method of Analysis: EPA 5030/602/8015

SEQUOIA ANALYTICAL LABORATORY

Date Sampled: 02/25/88
Date Received: 02/25/88
Date Analyzed: 03/07/88
Date Reported: 03/15/88

Project: EE/l, Emeryville

Sample Number

8021829

Sample Description

Soil, B2-S10

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS results in ppb

		•	
Bromomethane	< 50	1,2-Dichloropropane	< 50
Bromodichloromethane	< 50	1,3-Dichloropropene	< 50
Bromoform	< 50	Methylene chloride	< 50
Carbon Tetrachloride	< 50	1,1,2,2-Tetrachloroethane	< 50
Chloroethane	< 50	Tetrachloroethene	< 50
2-Chloroethylvinyl ether	< 50	1,1,1-Trichloroethane	< 50
Chloroform	< 50	1,1,2-Trichloroethane	< 50
Chloromethane	< 50	Trichloroethene	< 50
Dibromochloromethane	< 50	Vinyl chloride	< 50
1,1-Dichloroethane	< 50	1,2-Dichlorobenzene	< 50
1,2-Dichloroethane	< 50	1,3-Dichlorobenzene	< 50
1,1-Dichloroethene	< 50	1,4-Dichlorobenzene	< 50
trans-1,2-Dichloroethene	< 50		

Method of Analysis: EPA 8010

SEQUOIA ANALYTICAL LABORATORY

Date Sampled: 02/25/88
Date Received: 02/25/88
Date Reported: 03/15/88

Project: EE/1, Emeryville

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTX DISTINCTION

Sample Number

8021837

Sample Description

Soil, B3-SlŐ

	Detection Limit ppm	Sample Results ppm
Low to Medium Boiling Point Hydrocarbons	1	48
Benzene	0.1	< 0.1
Toluene	0.1	< 0.1
Xylenes	0.1	< 0.1
Ethyl Benzene	0.1	< 0.1

Method of Analysis: EPA 5020/8015/8020

SEQUOIA ANALYTICAL LABORATORY

Date Sampled: 02/25/88
Date Received: 02/25/88
Date Reported: 03/15/88

Project: EE/1, Emeryville

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTX DISTINCTION

Sample Number

8021832

Sample Description

Soil, B4-S10

	Detection Limit ppm	Sample Results ppm
Low to Medium Boiling Point Hydrocarbons	1	< 1.0
Benzene	0.1	< 0.1
Toluene .	0.1	< 0.1
Xylenes	0.1	< 0.1
Ethyl Benzene	0.1	< 0.1

Method of Analysis: EPA 5020/8015/8020

SEQUOIA ANALYTICAL LABORATORY

Environmental Engineers
1190 South Second St., Suite 5

San Jose, CA 95112 Attn: Munir Butt Date Sampled: 02/25/88
Date Received: 02/25/88
Date Reported: 03/17/88

Project: #EE/1, Emeryville, CA

TOTAL PETROLEUM FUEL HYDROCARBONS WITH BTX DISTINCTION

Sample Number

8021989

Sample Description

Water, B3-W

	Detection Limit	Sample <u>Results</u>
	ppb	ppb
Low to Medium Boiling Point Hydrocarbons	50	6,400
Benzene	0.5	3.0
Toluene	0.5	4.3
Xylenes	0.5	2.4
Ethyl Benzene	0.5	3.3

Method of Analysis: EPA 5030/602/8015

SEQUOIA ANALYTICAL LABORATORY

Environmental Engineers

1190 South Second St., Suite 5

San Jose, CA 95112 Attn: Munir Butt Date Sampled: 02/25/88

Date Received: 02/25/88 Date Analyzed: 03/04/88

Date Reported: 03/17/88

Project: #EE/1, Emeryville, CA

Sample Number

8021987

Sample Description

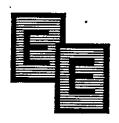
Water, Bl-W

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS results in ppb

Method of Analysis: EPA 601

SEQUOIA ANALYTICAL LABORATORY



ENVIRONMENTAL ENGINEERS 1190 SOUTH SECOND ST. SUITE 5, SAN JOSE, CA. 95112 (408) 295-3450

CHAIN OF SAMPLE CUSTODY RECORD
Collector: EEI Date Sampled: $2-25-88$ Time: $I \circ A.M = II.M = 10.M =$
Location of Sampling: $\underbrace{EMERYVIL(E, CA)}_{EMERYVIL(E, CA)}$
Project Number: EE/I GROUND WATER (GRAB)
Sample Type: GROUND WATER (GLAB)
Container Type and Condition: VOLATILE ORGANIC ANALYSIS BOTTLES (YOML. Cop.
Contract Laboratory Record/Name: SEQUOIA.
Sample ID Field Information
BI-W Grab ground water saught, from Soil boing. BI-W BI as Br locates adjacent to Solvent tank.
- By-W Grab grandwater samples know soil borning
By-W Grab grondwater samples from soil bornings By-W B3 and By located adjacent to gardine to
Analysis Requested: Anchose grownwith ghb narphs D B1-N and B2-N by spA Text Method 601 D B3-N and B4-N by SPA Text Method 5030/602 etal Petrolum Fullydrocation, including B, T, Xxx E.
Results Needed By: Normal 10 day trynami. March 2th 1988.
Travel Blank: ☐ Yes ☐ No ☐ N
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TANKS

DITTO NO BINE 1111111 CONCRETE PAD EXISTING D YENT PRE BUILDING F16. 1 SHRUBBRY SHOWING SITE PLAN (Boco jater ;
fuel story) LOCATIONS ADJOINING STORAGE UNDER GROUND RUBBER CO, CLIVER 1200 SIXTY FIFTH ST. NO BTYC EMMERY VILLE, CA. VENT PIPE APPROXIM9 TE TANK DIMENSIONS. TANK-1 ASP/IALT PAVEMENT HAM LINKED (Bood gailon Sclient Stowers) 4 FILL PIPE + SOIL BORING LOCATIONS SIDE WALK

SCALE "= 8"

Date Sampled: 02/25/88
Date Received: 02/25/88
Date Analyzed: 03/07/88
Date Reported: 03/15/88

Project: EE/1, Emeryville

Sample Number

8021830

Sample Description

Soil, B.1-S10

PRIORITY POLLUTANTS

PURGEABLE HALOCARBONS results in ppb

Bromomethane Bromodichloromethane Bromoform Carbon Tetrachloride Chloroethane 2-Chloroethylvinyl ether Chloroform Chloromethane Dibromochloromethane 1,1-Dichloroethane 1,2-Dichloroethane	< 50 < 50 < 50 < 50 < 50 < 50 < 50 < 50	1,2-Dichloropropane	< 50 < 50 < 50 < 50 < 50 < 50 < 50 < 50
		1,3-Dichlorobenzene	

Method of Analysis: EPA 8010

SEQUOIA ANALYTICAL LABORATORY