



September 8, 1998

REPORT
of
ADDITIONAL SOIL AND GROUNDWATER ASSESSMENT
SEPTEMBER 2 & 3, 1998
ASE JOB NO. 3231
at
Oliver Rubber Company Plant I
1200 65th Street
Oakland, California

Submitted by:
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1.0 INTRODUCTION

This report outlines the methods and findings of Aqua Science Engineers, Inc. (ASE)'s additional soil and groundwater assessment conducted on September 2 and 3, 1998 at the Oliver Rubber Company (Oliver) property located at 1200 65th Street in Oakland, California (Figures 1 and 2). The site assessment activities were conducted to investigate for the presence of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) in soil and groundwater beneath the site building. This issue was raised during a meeting conducted on August 26, 1998 between Ms. Susan Hugo of the Alameda County Health Care Services Agency (ACHCSA), Mr. Tom Palmer of Standard Products, Mr. Dave Kuhre of Oliver, and Mr. David Allen of ASE. This meeting was conducted to identify and determine the remaining issues at the site, if any, that required further assessment prior to gaining a No Further Action Letter from the ACHCSA that would enable the ACHCSA to allow the site to be developed for live-work residential usage.

2.0 SITE HISTORY

The site has been used since the 1950's primarily as a rubber tire tread manufacturing plant. Virgin materials were combined and processed using various mixing machines, milling machines, and conveyors. The rubber product was then either extruded into strip form or molded into tire treads at Oliver's Plant II across Vallejo Street. The entire floor of the production area is reportedly a minimum of 12-inches thick. In areas surrounding large milling machines, the concrete is reportedly up to 24 to 36-inches thick. The milling machines and conveyor system sat on pedestals above shallow concrete pits. A cooling water system was incorporated within the production area to keep the machines operating at controlled temperatures. This cooling water was then recycled and reused. Chemicals were added to the cooling water to reduce the levels of scaling in the cooling tower, to reduce algae, and to control the pH.

The compound of interest used during the production of the rubber for tire treads is a heavy petroleum hydrocarbon, much like liquid tar at elevated temperatures. The product most commonly used by Oliver was RAFFEX 120. The RAFFEX 120 was stored outside the plant in a subgrade concrete vault, which was heated with steam to maintain the liquid consistency of the product. The RAFFEX was then pumped inside the building to the process area. Zinc Stearate was also used during the extrusion of the rubber product to inhibit the product from adhering to itself as it was stacked onto pallets. Various lubricating oils and greases were used in the

milling and mixing machines. Spent lubricating oils and greases were drummed, profiled, and shipped off-site for recycling. Safety solvent cleaning stations were used at the facility during maintenance activities.

Beginning in January 1998 and completed during the week of March 16, 1998, the plant was decommissioned and cleaned by Mid-American Machine, Inc. and DECON Environmental Services, respectively. All plant manufacturing equipment was removed and either shipped to various Oliver plants on the east coast or scrapped as metal salvage. Pressure washing liquids used to clean the building were collected and disposed of off-site. The scope of work for this plant closure was discussed and agreed upon by members of Oliver staff and Mr. Amir Gholami of the ACHCSA during his visit to the plant on November 20, 1997.

As the decommissioning and cleaning processes were taking place, ASE was on-site to inspect for potential integrity failures in the concrete floor and pits. Pits without obvious cracks were filled with concrete. Pits that had exit pipes or cracks near the edges of the pit were earmarked for future assessment activities to be conducted adjacent to the pits.

In April 1998, nine (9) soil borings were drilled inside the building to depths ranging from 2.5-feet below ground surface (bgs) to 6-feet bgs. Selected soil samples were analyzed for RAFFEX, oil & grease (O&G), and zinc. Low levels of RAFFEX were identified in the soil samples ranging from 3.1 parts per million (ppm) to 40 ppm. 260 ppm O&G was identified in one soil boring; O&G was not detected in the remaining borings at concentrations greater than the detection limit. 18 ppm zinc was identified in the only soil boring for which zinc was analyzed. Three (3) soil borings were drilled outside the building in respect to the former RAFFEX tank vault. One of these borings (BH-10) was drilled to 3-feet bgs near the piping manifold; only 7.5 ppm RAFFEX was identified in this soil sample. The other two borings were drilled outside approximately 8-feet west (downgradient) of the former vault (BH-11 & BH-12), near the railroad tracks/spurs. These borings were drilled to a total depth of approximately 12-feet bgs in order to collect grab groundwater samples. Soil samples collected from these two borings contained 74 ppm and 20 ppm RAFFEX. The grab groundwater samples contained 1.2 ppm and 4.6 ppm RAFFEX in the water. Complete details of the pit inspections and sampling activities conducted in April 1998 can be found in the ASE report titled "Report of Soil and Groundwater Assessment, ASE Job No. 3231," dated April 30, 1998.

In July 1998, ASE drilled five soil borings in the railroad tracks/spur area downgradient of the former RAFFEX tank vault. The only VOC concentration detected in the soil during this assessment was 0.0076 ppm 1,1-dichloroethene in the soil sample collected from 15.5-foot bgs in boring BH-14. No SVOCs were detected in any of the soil samples analyzed. Only very low concentrations of VOCs, below California Department of Toxic Substances Control (DTSC) maximum contaminant levels (MCLs) for drinking water, were detected in the groundwater samples collected during this assessment. The highest phenol concentration was 11 ppb which exceeded the DTSC recommended action level of 5 ppb. However, the DTSC MCL is based on an odor and taste threshold in chlorinated tap water systems, not risk to human health. The US EPA health advisory concentration for phenol in drinking water is 4,000 ppb, which is well above the highest concentration of phenol detected. Complete details of the afore-mentioned assessment activities can be found in the ASE report titled "Report of Additional Soil and Groundwater Assessment, ASE Job No. 3231," dated July 20, 1998.

3.0 SCOPE OF WORK (SOW)

OLIVER, ASE, and the ACHCSA reviewed detailed architectural drawings for a proposed Live-Work residential development at the subject site on August 26, 1998. The drawings were supplied by a potential buyer of the property. Due to the potential for a modification in the use of the property, from industrial to residential, Ms. Susan Hugo requested the following additional assessment activities within the on-site building in order to assess the potential for exposure of contaminated soil and/or groundwater by future construction workers and residents on the property. The boring locations proposed for this assessment were strategically placed to assess (a) the area beneath the proposed "reflecting pool" as detailed in the potential buyer's drawings, (b) an area near the former RAFFEX tank vault, and (c) in areas where proposed support columns will be installed for the future live-work building. Based on the afore-mentioned information, ASE's SOW was as follows:

- 1) Obtain a subsurface drilling permit from the Alameda County Public Works Agency (ACPWA).
- 2) Using a Geoprobe hydraulic sampling rig, drill four (4) soil borings at the site, one inside the building near the location of the proposed reflecting pool, one outside in the future parking lot near the former RAFFEX tank vault, and two inside the building in approximate areas

of footings. Collect soil and groundwater samples from the borings for analysis.

- 3) Analyze one soil and one groundwater sample from each soil boring at a CAL-EPA certified environmental laboratory for VOCs by EPA Method 8240 and SVOCs by EPA Method 8270.
- 4) Backfill the borings with neat cement.
- 5) Prepare a report detailing the methods and findings of the assessment.

Details of the assessment are presented below.

4.0 DRILL SOIL BORINGS AND COLLECT SAMPLES

Prior to drilling, ASE obtained drilling permit #98WR367 from ACPWA. A copy of this permit is presented in Appendix A.

On September 2 and 3, 1998, Kvilhaug Well Drilling of Concord, California drilled soil borings BH-18 through BH-21 at the site using a Geoprobe hydraulic sampling rig (Figure 2). Borings BH-18 and BH-19 were started on September 2, 1998 but had to be completed on September 3, 1998 due to a ruptured hydraulic oil seal on the drill rig which had to be repaired prior to continuing drilling operations. Boring BH-21 was located in the location of the reflecting pool. Boring BH-20 was located near the former RAFFEX tank vault. Borings BH-18 and BH-19 were placed in locations near footings. The drilling was directed by ASE senior geologist Robert E. Kitay, R.G.

Undisturbed soil samples were collected continuously as drilling progressed for lithologic and hydrogeologic description and for possible chemical analysis. The samples were collected by driving a sampler lined with acetate tubes using hydraulic direct push methods. Selective soil samples were immediately trimmed, sealed with Teflon tape, plastic end caps and duct tape, labeled, sealed in plastic bags and stored on ice for transport to Chromalab, Inc. of Pleasanton, California (ELAP #1094) under chain of custody. Soil from the remaining tubes was described by the site geologist using the Unified Soil Classification System and was screened for volatile compounds using an Organic Vapor Meter (OVM). Since borings BH-18 and BH-19 had to be advanced deeper than the initial stopping point in these borings in order to obtain the required volume of

groundwater for analysis, soil samples were not collected from the deeper portions of these borings.

A temporary PVC well casing was driven into place in each boring for the collection of groundwater samples. Groundwater samples were removed from the borings using a pre-cleaned stainless steel bailer. The groundwater samples were contained in 40-ml volatile organic analysis (VOA) vials (pre-preserved with hydrochloric acid) without headspace and unpreserved 1-liter amber glass containers. The samples were labeled, placed in protective foam sleeves, and stored in coolers with wet ice for transport to Chromalab under appropriate chain of custody documentation.

Upon completion of the soil and groundwater sampling, the borings were backfilled with neat cement to the ground surface.

Drilling equipment was cleaned with a TSP solution between sampling intervals and between borings to prevent potential cross-contamination.

5.0 HYDROGEOLOGY

Boring logs for borings BH-18 through BH-21 are presented in Appendix B. Although sediments appeared to be wet at 4-feet bgs in each boring, the sediments were not sufficiently permeable to produce water until a depth of 20-feet bgs was reached. This hydrogeologic condition is generally consistent with hydrogeologic conditions found in previous borings at the site.

6.0 ANALYTICAL RESULTS FOR SOIL

The soil sample collected from what appeared to be the capillary zone in borings BH-18 through BH-20 (3.5-feet bgs in borings BH-18 and BH-19 and 7.5-feet bgs in boring BH-20) were analyzed by the analytical laboratory. The soil sample collected from 9.5-feet bgs in boring BH-21 was selected for analysis although it was below the water table because it was odorous and had the highest OVM readings of any of the soil in the boring. All of these samples were analyzed by Chromalab for VOCs by EPA Method 8240 and SVOCs by EPA Method 8270. The analytical results are tabulated in Table Eight, and the certified analytical report and chain of custody documentation are included in Appendix C.

The only VOC detected in any of the soil samples analyzed was 0.0065 ppm ethylbenzene in the soil sample collected from 3.5-feet bgs in boring BH-18. No VOCs were detected in any other soil sample analyzed during

this assessment. The only SVOC detected during this assessment was 0.29 ppm phenol in the soil sample collected from 9.5-foot bgs in boring BH-21. No SVOCs were detected in any of the remaining soil samples analyzed.

7.0 ANALYTICAL RESULTS FOR GROUNDWATER

The groundwater samples collected from each of the borings were analyzed by Chromalab for VOCs by EPA Method 8240 and SVOCs by EPA Method 8270. The analytical results are tabulated in Tables Nine and Ten, and the certified analytical report and chain of custody documentation are included in Appendix C.

Groundwater samples collected from boring BH-20, outside the building where the future parking lot is proposed, contained 260 ppb 1,1-dichlorobenzene, 99 ppb 1,1,1-trichloroethane, 11 ppb 1,1-dichloroethane and 9.4 ppb butyl benzyl phthalate. No other VOCs or SVOCs were detected in groundwater samples collected from boring BH-20, and no VOCs or SVOCs were detected in groundwater samples collected from borings BH-18, BH-19 and BH-21.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The only VOC detected in any of the soil samples analyzed was 0.0065 ppm ethylbenzene in the soil sample collected from 3.5-foot bgs in boring BH-18. No VOCs were detected in any other soil sample analyzed during this assessment. The only SVOC detected during this assessment was 0.29 ppm phenol in the soil sample collected from 9.5-foot bgs in boring BH-21. No SVOCs were detected in any of the remaining soil samples analyzed. Neither the ethylbenzene nor the phenol concentration detected exceeded the United States Environmental Protection Agency (US EPA) Region IX preliminary remediation goal (PRG) for residential soil. Therefore, ASE does not feel that these concentrations will present a concern to residential development at these locations.

Groundwater samples collected from boring BH-20, outside the building where the future parking lot is proposed, contained 260 ppb 1,1-dichlorobenzene, 99 ppb 1,1,1-trichloroethane, 11 ppb 1,1-dichloroethane and 9.4 ppb butyl benzyl phthalate. No other VOCs or SVOCs were detected in groundwater samples collected from boring BH-20, and no VOCs or SVOCs were detected in groundwater samples collected from borings BH-18, BH-19 and BH-21. Based on these concentrations identified in the groundwater in borehole BH-20, the location where these compounds were detected (outside the building in an area proposed to be

parking), the low permeability clay-rich subsurface sediments, and the presence of a thick cap on the surface at this location on the property, ASE does not believe that the concentrations of these compounds pose an unacceptable health risk to residents in the live-work development proposed for the site.

ASE further concludes/recommends the following:

- No further assessment activities are warranted at the site for either plume definition or plant closure activities.
- Based on the analytical results collected during the various assessments at this site, it appears that the subsurface soil has not been impacted by significant levels of TPH-RAFFEX.
- Elevated concentrations of TPH-RAFFEX were only identified in a limited area of the property; the location of the former RAFFEX tank vault; levels of TPH-RAFFEX dropped dramatically downgradient of the vault.
- Should it become necessary to excavate in the area of the former RAFFEX tank vault for development purposes, ASE recommends the preparation of a risk management prevention plan which will identify safe working procedures for field personnel, and detail materials handling procedures. If the concrete vault is disturbed during construction and/or development activities, some form of remediation such as soil excavation and/or groundwater removal may be necessary.

ASE recommends that this case be closed. Provided the integrity of the concrete surfaces of the vault and its cover remain intact, and the redevelopment occurs as proposed on the drawings viewed on August 26, 1998, the site appears to be suitable for development as live/work and residential usage.

9.0 REPORT LIMITATIONS

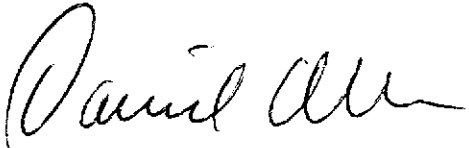
The results of this assessment represent conditions at the time of the soil and groundwater sampling, at the specific locations where the samples were collected, and for the specific parameters analyzed by the laboratory.

This report does not fully characterize the site for contamination resulting from unknown sources or for parameters not analyzed by the laboratory. All of the laboratory work cited in this report was prepared under the direction of an independent CAL-EPA certified laboratory. The independent laboratory is solely responsible for the contents and conclusions of the chemical analysis data.


Aqua Science Engineers appreciates the opportunity provide environmental consulting services for this project. Should you have any questions or comments, please feel free to call us at (925) 820-9391.

Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.



David Allen, R.E.A.
Senior Project Manager



Robert E. Kitay, R.G., R.E.A.
Senior Geologist



TABLE ONE
 Soil Analytical Results
 TPH-RAFFEX
 Soil Samples Collected March 11 and April 8, 1998
 All results are in **parts per million**

SAMPLE ID.	MATRIX	TPH RAFFEX
GRAB-A @ 3.5'	SOIL	380
TRENCH-A	SOIL	3.8
TRENCH-B	SOIL	3.5
TRENCH-C	SOIL	9.6
EPA METHOD	---	8015M

Notes: Detectable concentrations are in **bold**

TABLE TWO
 Soil Analytical Results
 TPH-RAFFEX, Oil & Grease, Zinc, and VOCs
 Soil Borings Drilled April 8, 1998
 All results are in **parts per million**

SAMPLE ID.	TPH RAFFEX	OIL & GREASE	ZINC	All VOCs
BH-1 @ 3'	10	<50	18	<5.0 - <50
BH-2 @ 2.5'	6.4	<50	---	<5.0 - <50
BH-3 @ 3'	3.1	<50	---	<5.0 - <50
BH-4 @ 2'	40	<50	---	<5.0 - <50
BH-5 @ 5'	36	<50	---	<5.0 - <50
BH-6 @ 6'	10	<50	---	<5.0 - <50
BH-7 @ 5.5'	4.7	<50	---	<5.0 - <50
BH-8 @ 4'	14	260	---	<5.0 - <50
BH-9 @ 4'	5.1	<50	---	<5.0 - <50
BH-10 @ 3'	7.5	---	---	<5.0 - <50
BH-11 @ 6'	74	---	---	<5.0 - <50
BH-12 @ 5.5'	20	---	---	<5.0 - <50
EPA METHOD	8015M	5520 EF	6010	8010

Notes: Detectable concentrations are in **bold**.
 Non-detectable concentrations are noted by the less than sign (<) followed by the laboratory detection limit.

TABLE THREE
 Groundwater Analytical Results
 TPH-RAFFEX
 Soil Borings Drilled April 8, 1998
 All results are in **parts per million**

SAMPLE ID.	LOCATION	TPH RAFFEX
-----	-----	-----
GRAB-A	INSIDE VAULT	8
GRAB-B	INSIDE VAULT	28
BH-11	DOWNGRAIENT OF VAULT	1.2
BH-12	DOWNGRAIENT OF VAULT	4.6
EPA METHOD	---	8015M

Note: Detectable concentrations are in **bold**

TABLE FOUR
 Soil Analytical Results
 TPH-Raffex, VOCs & SVOCs
 Soil Borings Drilled July 1, 1998
 All results are in **parts per million**

SAMPLE ID.	TPH RAFFEX	1,1-DICHLOROETHENE	REMAINING VOLATILE ORGANIC COMPOUNDS	ALL SEMI-VOLATILE ORGANIC COMPOUNDS
-----	-----	-----	-----	-----
BH-13 @ 3.5'	56	< 0.005	< 0.005 - < 0.050	< 0.10 - < 0.50
BH-14 @ 15.5'	< 1.0	0.0076	< 0.005 - < 0.050	< 0.10 - < 0.50
BH-15 @ 15.0'	1.8	< 0.005	< 0.005 - < 0.050	< 0.10 - < 0.50
EPA METHOD	8015M	8240	8240	8270

Notes: Detectable concentrations are in **bold**.
 Non-detectable concentrations are noted by the less than sign (<) followed by the laboratory detection limit.

TABLE FIVE
 Groundwater Analytical Results
 TPH-RAFFEX
 Soil Borings Drilled July 1, 1998
 All results are in **parts per billion**

SAMPLE ID. -----	TPH RAFFEX -----
BH-13 WATER	140
BH-14 WATER	270
BH-15 WATER	96
BH-16 WATER	63
BH-17 WATER	<50
 EPA METHOD	 8015M

Note: Detectable concentrations are in **bold**.
 Non-detectable concentrations are noted by the less than sign (<) followed by the laboratory detection limit.

TABLE SIX
 Groundwater Analytical Results
 Semi-Volatile Organic Compounds
 Soil Borings Drilled July 1, 1998
 All results are in **parts per billion**

SAMPLE ID. -----	PHENOL -----	REMAINING SEMI-VOLATILE ORGANIC COMPOUNDS -----
BH-13 WATER	11	< 2.0 - < 10.0
BH-14 WATER	< 3.3	< 3.3 - < 17.0
BH-15 WATER	3.7	< 2.0 - < 10.0
BH-16 WATER	< 2.5	< 2.5 - < 12.0
BH-17 WATER	< 2.0	< 2.0 - < 10.0
 EPA METHOD	 8270	 8270

Notes: Detectable concentrations are in **bold**.
 Non-detectable concentrations are noted by the less than sign (<) followed by the laboratory detection limit.

TABLE SEVEN
Groundwater Analytical Results
Volatile Organic Compounds
Soil Borings Drilled July 1, 1998
All results are in parts per billion

SAMPLE ID.	BENZENE	TOLUENE	1,1-DCA	1,1-DCE	1,1,1-TCA	REMAINING VOLATILE ORGANIC COMPOUNDS
-----	-----	-----	-----	-----	-----	-----
BH-13 WATER	<0.5	0.66	<0.5	<0.5	<0.5	<0.5 - < 50.0
BH-14 WATER	<0.5	0.68	0.63	3.2	0.90	<0.5 - < 50.0
BH-15 WATER	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 - < 50.0
BH-16 WATER	<0.5	1.3	<0.5	<0.5	<0.5	<0.5 - < 50.0
BH-17 WATER	0.56	1.0	<0.5	<0.5	<0.5	<0.5 - < 50.0
EPA METHOD	8240	8240	8240	8240	8240	8240

Notes: Detectable concentrations are in **bold**.
Non-detectable concentrations are noted by the less than sign (<) followed by the laboratory detection limit.
1,1-DCA is 1,1-Dichloroethane.
1,1-DCE is 1,1-Dichloroethene.
1,1,1-TCA is 1,1,1-Trichloroethane.

TABLE EIGHT
 Soil Analytical Results
 VOCs & SVOCs
 Soil Borings Drilled September 2 & 3, 1998
 All results are in parts per million

SAMPLE ID.	ETHYLBENZENE	PHENOL	REMAINING VOLATILE ORGANIC COMPOUNDS	ALL SEMI-VOLATILE ORGANIC COMPOUNDS
BH-18 @ 3.5'	0.0065	<0.1	< 0.005 - < 0.050	< 0.050 - < 2.0
BH-19 @ 3.5'	< 0.005	<0.1	< 0.005 - < 0.050	< 0.050 - < 2.0
BH-20 @ 7.5'	< 0.005	<0.1	< 0.005 - < 0.050	< 0.050 - < 2.0
BH-21 @ 9.5'	< 0.005	0.29	< 0.005 - < 0.050	< 0.050 - < 2.0
EPA METHOD	8240	8270	8240	8270

Notes: Detectable concentrations are in **bold**.
 Non-detectable concentrations are noted by the less than sign (<) followed by the laboratory detection limit.

TABLE NINE
 Groundwater Analytical Results
 Volatile Organic Compounds
 Soil Borings Drilled September 2 & 3, 1998
 All results are in parts per billion

SAMPLE ID.	1,1-DCA	1,1-DCE	1,1,1-TCA	REMAINING VOLATILE ORGANIC COMPOUNDS
BH-18 WATER	< 2.0	< 2.0	< 2.0	< 2.0 - < 50
BH-19 WATER	< 2.0	< 2.0	< 2.0	< 2.0 - < 50
BH-20 WATER	11	260	99	< 2.0 - < 50
BH-21 WATER	< 2.0	< 2.0	< 2.0	< 2.0 - < 50
EPA METHOD	8240	8240	8240	8240

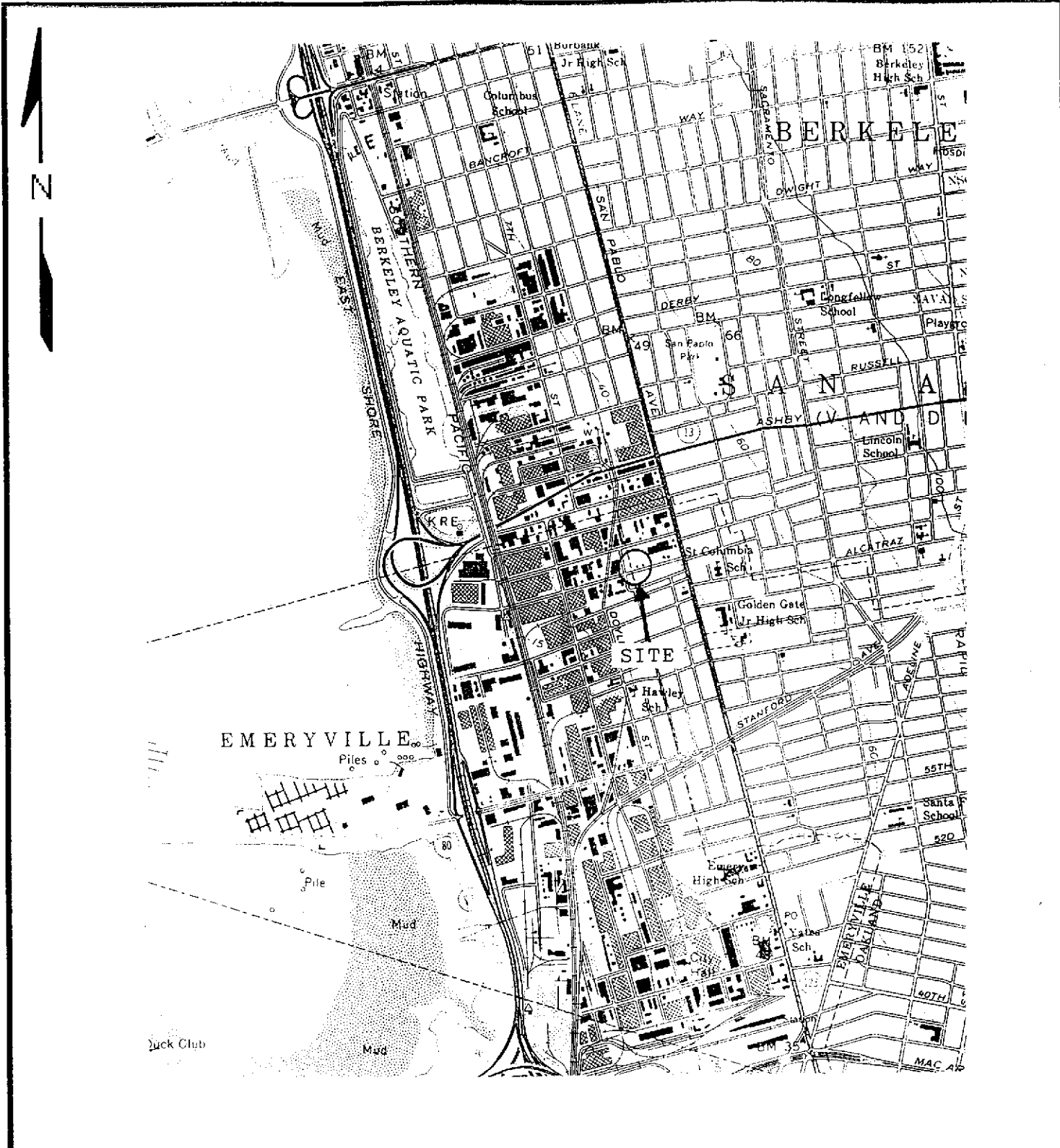
Notes: Detectable concentrations are in **bold**.
 Non-detectable concentrations are noted by the less than sign (<) followed by the laboratory detection limit.
 1,1-DCA is 1,1-Dichloroethane.
 1,1-DCE is 1,1-Dichloroethene.
 1,1,1-TCA is 1,1,1-Trichloroethane.

TABLE TEN
 Groundwater Analytical Results
 Semi-Volatile Organic Compounds
 Soil Borings Drilled September 2 & 3, 1998
 All results are in **parts per billion**

SAMPLE ID. -----	BUTYL BENZYL PHTHALATE -----	REMAINING SEMI-VOLATILE ORGANIC COMPOUNDS -----
BH-18 WATER	< 14	< 2.3 - < 27.0
BH-19 WATER	< 12	< 2.3 - < 27.0
BH-20 WATER	9.4	< 2.3 - < 27.0
BH-21 WATER	< 5.8	< 2.3 - < 27.0
EPA METHOD	8270	8270

Notes: Detectable concentrations are in **bold**.

Non-detectable concentrations are noted by the less than sign (<) followed by the laboratory detection limit.

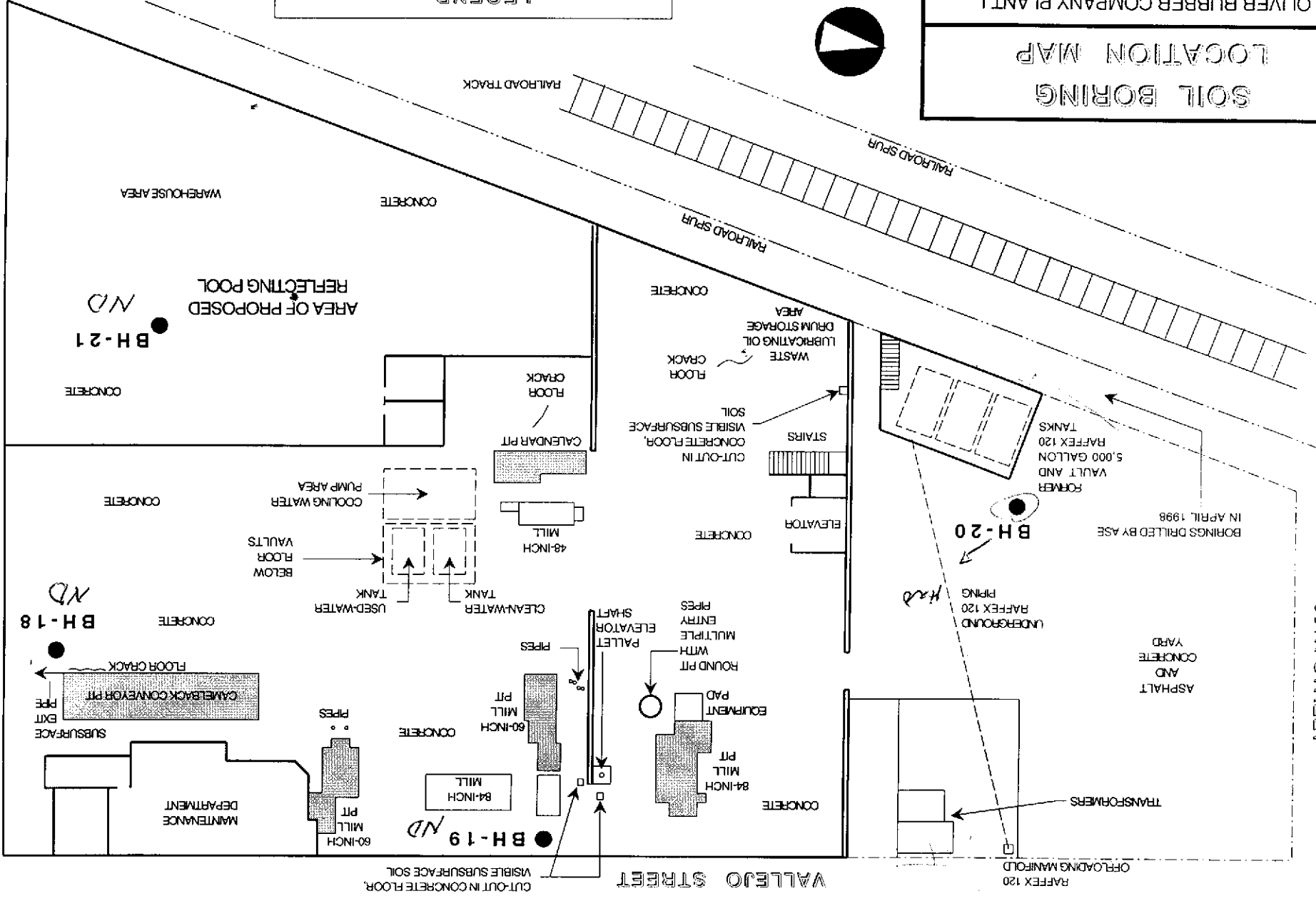


SITE LOCATION MAP	
OLIVER RUBBER COMPANY PLANT I 1200 65TH STREET OAKLAND, CALIFORNIA	
Aqua Science Engineers	Figure 1

SOIL BORING LOCATION MAP
OLIVER RUBBER COMPANY PLANT I
1200 65TH STREET
OAKLAND, CALIFORNIA
AQUA SCIENCE ENGINEERS, INC.
FIGURE 2



LEGEND
 ● **BH-21**
 SOIL BORINGS DRILLED BY ASE
 BY ASE SEPTEMBER 2 & 3, 1998



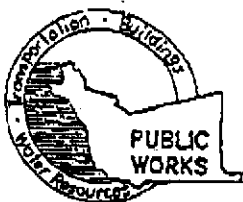
65TH STREET

VALLEJO STREET

RAILROAD SPUR
RAILROAD TRACK

APPENDIX A

Drilling Permit



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
 PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
 (510) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 1200 65th Street
Oakland, CA

California Coordinates Source _____ ft. Accuracy ± _____ ft.
 CCN _____ ft. CCB _____ ft.
 APN _____

CLIENT
 Name Olivine Rubber Company
 Address 1200 65th Street Phone _____
 City Oakland, CA Zip _____

APPLICANT
 Name Aqua Science Engineers, Inc.
Attn: Robert Kitzner Fax 925-820-9291
 Address 411 Old Crow Canyon Rd Phone 925-820-9291
 City San Ramon, CA Zip 94583

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input checked="" type="checkbox"/>
Monitoring	<input type="checkbox"/>	Well Destruction	<input type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other _____	<input type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input checked="" type="checkbox"/>	<u>2 Lipprobe</u>	

DRILLER'S LICENSE NO. 657 482 390 (Kitzner)

WELL PROJECTS

Drill Hole Diameter	_____ in.	Maximum	_____ in.
Casing Diameter	_____ in.	Depth	_____ ft.
Surface Seal Depth	_____ ft.	Number	_____

GEOTECHNICAL PROJECTS

Number of Borings	<u>4</u>	Maximum	_____
Hole Diameter	<u>7</u> in.	Depth	<u>15</u> ft.

ESTIMATED STARTING DATE 9-2-98
 ESTIMATED COMPLETION DATE 9-2-98

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Robert E. Kitzner DATE 8-27-98

FOR OFFICE USE

PERMIT NUMBER 98WR367
 WELL NUMBER _____
 APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

- (A) GENERAL
 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
 2. Submit to ACPWA within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.
- B. WATER SUPPLY WELLS
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
 1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- (D) GEOTECHNICAL

Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremie cement grout shall be used in place of compacted cuttings.
- E. CATHODIC

Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION

See attached.
- G. SPECIAL CONDITIONS

APPROVED Alvin Kan DATE 8/31/98

APPENDIX B

Boring Logs

SOIL BORING LOG AND COMPLETION DETAILS

Boring BH-18

Project Name: Oliver Rubber

Project Location: 1200 65th Street, Oakland, CA

Page 1 of 1

Driller: Kvilhaug

Type of Rig: Geoprobe

Size of Drill: 2.0" Diameter Direct Push

Logged By: Robert E. Kitay, R.G.

Date Drilled: September 2 & 3, 1998

Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Total Depth of Well Completed: NA

Depth of Water First Encountered: 4.0'

Well Screen Type and Diameter: NA

Static Depth of Water in Boring: 4.0'

Well Screen Slot Size: NA

Total Depth of Boring: 24'

Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OMV (ppmv)	Graphic Log		
0		Class "H" Portland Cement	0 - 4		0		0	Concrete
5			4 - 6		0		5	Clayey SILT (MH); black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor wet at 4'
10			6 - 11		0		10	Silty CLAY (CH); dark yellow brown; stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor
15			11 - 15		0		15	Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 30% coarse angular sand; low plasticity; no odor
20					?	20	No soil samples collected below 16'	
25						25	End of boring at 24'	
30						30		

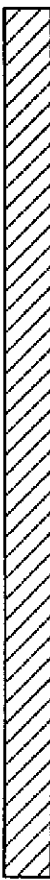


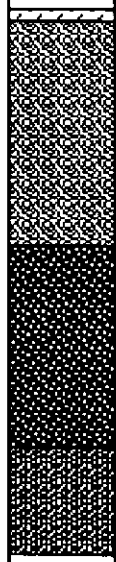
SOIL BORING LOG AND COMPLETION DETAILS	Boring BH-19
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Project Name: Oliver Rubber	Project Location: 1200 65th Street, Oakland, CA	Page 1 of 1
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Driller: Kvilhaug	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter Direct Push
-------------------	-----------------------	--

Logged By: Robert E. Kitay, R.G.	Date Drilled: September 2 & 3, 1998	Checked By: Robert E. Kitay, R.G.
----------------------------------	-------------------------------------	-----------------------------------

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 4.0'	Well Screen Type and Diameter: NA
Static Depth of Water in Boring: 4.0'	Well Screen Slot Size: NA
Total Depth of Boring: 24'	Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OWM (ppmv)	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	 ← Class "H" Portland Cement			0	0		0	Concrete
5							5	Clayey SILT (MH); black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor
10							10	Silty CLAY (CH); dark yellow brown; stiff; damp; 60% clay; 40% silt; high plasticity; very low estimated K; no odor
15							15	Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 20% coarse angular sand; 10% silt; low plasticity; very low estimated K; no odor
20						?	20	No soil samples collected below 16'
25							25	End of boring at 24'
30							30	

SOIL BORING LOG AND COMPLETION DETAILS

Boring BH-20

Project Name: Oliver Rubber

Project Location: 1200 65th Street, Oakland, CA

Page 1 of 1

Driller: Kvilhaug

Type of Rig: Geoprobe

Size of Drill: 2.0" Diameter Direct Push

Logged By: Robert E. Kitay, R.G.

Date Drilled: September 3, 1998

Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Total Depth of Well Completed: NA

Depth of Water First Encountered: 8.0'

Well Screen Type and Diameter: NA

Static Depth of Water in Boring: 8.0'

Well Screen Slot Size: NA

Total Depth of Boring: 22'

Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Water Level	OMV (ppmv)	Graphic Log		
0	<p>Class "H" Portland Cement</p>						0	Asphaltic concrete
5							Silty SAND (SM); yellow brown; medium dense; moist; 70% medium to coarse sand; 20% silt; 10% angular pebbles to 0.5" diameter; non-plastic; high estimated K; no odor	
10							Clayey SILT (MH); black; soft; moist; 70% silt; 30% clay; high plasticity; very low estimated K; no odor	
15							Silty CLAY (CH); dark yellow brown; stiff; damp; 80% clay; 20% silt; high plasticity; very low estimated K; no odor	
20							wet at 8'	
15							Sandy CLAY (CH); yellow brown; hard; moist; 70% clay; 30% coarse angular sand; low plasticity; no odor	
20							Silty SAND (SM); yellow brown; dense; wet; 80% medium to coarse sand; 20% silt; non-plastic; high estimated K; no odor	
22							End of boring at 22'	
25								
30								

SOIL BORING LOG AND COMPLETION DETAILS

Boring BH-21

Project Name: Oliver Rubber

Project Location: 1200 65th Street, Oakland, CA

Page 1 of 1

Driller: Kvilhaug

Type of Rig: Geoprobe

Size of Drill: 2.0" Diameter Direct Push

Logged By: Robert E. Kitay, R.G.

Date Drilled: September 3, 1998

Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Depth of Water First Encountered: 8.0'

Total Depth of Well Completed: NA

Well Screen Type and Diameter: NA

Static Depth of Water in Boring: 8.0'

Well Screen Slot Size: NA

Total Depth of Boring: 24'

Type and Size of Soil Sampler: 2.0" I.D. Macrocore Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
			Interval	Water Level	OMV (ppmv)	Graphic Log		
0	<p>Class "H" Portland Cement</p>						0	Concrete (3 layers)
5							Clayey SILT (MH); black; soft; moist; 85% silt; 15% clay; high plasticity; low estimated K; no odor	
10							CLAY (CH); olive brown; stiff; wet; 100% clay; high plasticity; very low estimated K; slight unidentifiable odor	
15							Sandy CLAY (CL); yellow brown; hard; moist; 70% clay; 30% coarse angular sand; low plasticity; no odor	
20							Silty SAND (SM); yellow brown; dense; wet; 80% medium to coarse sand; 20% silt; non-plastic; high estimated K; no odor	
25							End of boring at 24'	
30								

APPENDIX C

Certified Analytical Report
and
Chain of Custody Documentation

CHROMALAB, INC.

Environmental Services (SDB)

September 4, 1998

Submission #: 9809020

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY

Project#: 3231

Received: September 2, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-18 3.5'

Spl#: 204115

Matrix: SOIL

Sampled: September 2, 1998

Run#: 14715

Analyzed: September 3, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE FACTOR (%)	DILUTION FACTOR
ACETONE	N.D.	50	N.D.	--	1
BENZENE	N.D.	5.0	N.D.	87.6	1
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--	1
BROMOFORM	N.D.	5.0	N.D.	--	1
BROMOMETHANE	N.D.	10	N.D.	--	1
2-BUTANONE (MEK)	N.D.	100	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--	1
CHLOROBENZENE	N.D.	5.0	N.D.	99.6	1
CHLOROETHANE	N.D.	5.0	N.D.	--	1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.	--	1
CHLOROFORM	N.D.	5.0	N.D.	--	1
CHLOROMETHANE	N.D.	10	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	98.3	1
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
ETHYLBENZENE	6.5	5.0	N.D.	--	1
2-HEXANONE	N.D.	50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.	--	1
STYRENE	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	5.0	N.D.	--	1
TOLUENE	N.D.	5.0	N.D.	88.1	1
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROETHENE	N.D.	5.0	N.D.	85.3	1
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--	1
VINYL ACETATE	N.D.	50	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1
TOTAL XYLENES	N.D.	5.0	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 4, 1998

Submission #: 9809020
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY

Project#: 3231

Received: September 2, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-18 3.5'

Spl#: 204115

Matrix: SOIL

Sampled: September 2, 1998

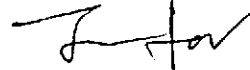
Run#: 14715

Analyzed: September 3, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
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Alex Tam
Analyst



Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 4, 1998

Submission #: 9809020

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY

Project#: 3231

Received: September 2, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-19 3.5'

Spl#: 204116

Matrix: SOIL

Sampled: September 2, 1998

Run#: 14715

Analyzed: September 3, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	50	N.D.	--	1
BENZENE	N.D.	5.0	N.D.	87.6	1
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--	1
BROMOFORM	N.D.	5.0	N.D.	--	1
BROMOMETHANE	N.D.	10	N.D.	--	1
2-BUTANONE (MEK)	N.D.	100	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--	1
CHLOROBENZENE	N.D.	5.0	N.D.	99.6	1
CHLOROETHANE	N.D.	5.0	N.D.	--	1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.	--	1
CHLOROFORM	N.D.	5.0	N.D.	--	1
CHLOROMETHANE	N.D.	10	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	98.3	1
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
ETHYLBENZENE	N.D.	5.0	N.D.	--	1
2-HEXANONE	N.D.	50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.	--	1
STYRENE	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	5.0	N.D.	--	1
TOLUENE	N.D.	5.0	N.D.	88.1	1
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROETHENE	N.D.	5.0	N.D.	85.3	1
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--	1
VINYL ACETATE	N.D.	50	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1
TOTAL XYLENES	N.D.	5.0	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 4, 1998

Submission #: 9809020
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY

Project#: 3231

Received: September 2, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-19 3.5'

Spl#: 204116

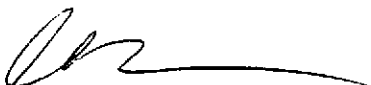
Matrix: SOIL


Sampled: September 2, 1998

Run#: 14715

Analyzed: September 3, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE SPIKE (%)	DILUTION FACTOR
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Alex Tam
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 4, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-20 7.5'

Spl#: 204391

Matrix: SOIL

Sampled: September 3, 1998

Run#: 14720

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	50	N.D.	--	1
BENZENE	N.D.	5.0	N.D.	105	1
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--	1
BROMOFORM	N.D.	5.0	N.D.	--	1
BROMOMETHANE	N.D.	10	N.D.	--	1
2-BUTANONE (MEK)	N.D.	100	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--	1
CHLOROENZENE	N.D.	5.0	N.D.	95.5	1
CHLOROETHANE	N.D.	5.0	N.D.	--	1
2-CHLOROETHYLVINYLEETHER	N.D.	10	N.D.	--	1
CHLOROFORM	N.D.	5.0	N.D.	--	1
CHLOROMETHANE	N.D.	10	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROENZENE	N.D.	5.0	N.D.	--	1
1,3-DICHLOROENZENE	N.D.	5.0	N.D.	--	1
1,4-DICHLOROENZENE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	107	1
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
ETHYLBENZENE	N.D.	5.0	N.D.	--	1
2-HEXANONE	N.D.	50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.	--	1
STYRENE	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	5.0	N.D.	--	1
TOLUENE	N.D.	5.0	N.D.	92.6	1
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROETHENE	N.D.	5.0	N.D.	94.0	1
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--	1
VINYL ACETATE	N.D.	50	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1
TOTAL XYLENES	N.D.	5.0	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 4, 1998

Submission #: 9809040
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-20 7.5'

Spl#: 204391

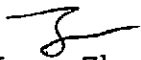
Matrix: SOIL

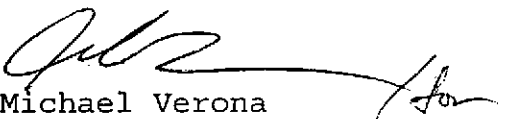
Sampled: September 3, 1998

Run#: 14720

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
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June Zhao
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 4, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-21 9.5'

Spl#: 204392

Matrix: SOIL

Sampled: September 3, 1998

Run#: 14720

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	50	N.D.	--	1
BENZENE	N.D.	5.0	N.D.	105	1
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--	1
BROMOFORM	N.D.	5.0	N.D.	--	1
BROMOMETHANE	N.D.	10	N.D.	--	1
2-BUTANONE (MEK)	N.D.	100	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--	1
CHLOROBENZENE	N.D.	5.0	N.D.	95.5	1
CHLOROETHANE	N.D.	5.0	N.D.	--	1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.	--	1
CHLOROFORM	N.D.	5.0	N.D.	--	1
CHLOROMETHANE	N.D.	10	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	107	1
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	5.0	N.D.	--	1
ETHYLBENZENE	N.D.	5.0	N.D.	--	1
2-HEXANONE	N.D.	50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.	--	1
STYRENE	N.D.	5.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	5.0	N.D.	--	1
TOLUENE	N.D.	5.0	N.D.	92.6	1
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROETHENE	N.D.	5.0	N.D.	94.0	1
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	5.0	N.D.	--	1
VINYL ACETATE	N.D.	50	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1
TOTAL XYLENES	N.D.	5.0	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 4, 1998

Submission #: 9809040
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-21 9.5'

Spl#: 204392


Matrix: SOIL


Sampled: September 3, 1998

Run#: 14720

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
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June Zhao
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809020

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY
Received: September 2, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-18 3.5'

Spl#: 204115

Matrix: SOIL

Extracted: September 3, 1998

Sampled: September 2, 1998

Run#: 14739

Analyzed: September 4, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
PHENOL	N.D.	0.10	N.D.	67.5	1
BIS (2-CHLOROETHYL) ETHER	N.D.	0.10	N.D.	--	1
2-CHLOROPHENOL	N.D.	0.10	N.D.	72.0	1
1,3-DICHLOROBENZENE	N.D.	0.10	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.	72.5	1
BENZYL ALCOHOL	N.D.	0.20	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	0.10	N.D.	--	1
2-METHYLPHENOL	N.D.	0.10	N.D.	--	1
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.10	N.D.	--	1
4-METHYLPHENOL	N.D.	0.20	N.D.	--	1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.10	N.D.	59.0	1
HEXACHLOROETHANE	N.D.	0.10	N.D.	--	1
NITROBENZENE	N.D.	0.10	N.D.	--	1
ISOPHORONE	N.D.	0.10	N.D.	--	1
2-NITROPHENOL	N.D.	0.10	N.D.	--	1
2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.	--	1
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.10	N.D.	--	1
2,4-DICHLOROPHENOL	N.D.	0.10	N.D.	--	1
1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	70.3	1
NAPHTHALENE	N.D.	0.10	N.D.	--	1
4-CHLOROANILINE	N.D.	0.20	N.D.	--	1
HEXACHLOROBTADIENE	N.D.	0.10	N.D.	--	1
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	N.D.	72.0	1
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.	--	1
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	N.D.	--	1
2,4,6-TRICHLOROPHENOL	N.D.	0.10	N.D.	--	1
2,4,5-TRICHLOROPHENOL	N.D.	0.10	N.D.	--	1
2-CHLORONAPHTHALENE	N.D.	0.10	N.D.	--	1
2-NITROANILINE	N.D.	0.50	N.D.	--	1
DIMETHYL PHTHALATE	N.D.	0.50	N.D.	--	1
ACENAPHTHYLENE	N.D.	0.10	N.D.	--	1
3-NITROANILINE	N.D.	0.10	N.D.	--	1
ACENAPHTHENE	N.D.	0.10	N.D.	71.9	1
2,4-DINITROPHENOL	N.D.	0.50	N.D.	--	1
4-NITROPHENOL	N.D.	0.50	N.D.	73.0	1
DIBENZOFURAN	N.D.	0.10	N.D.	--	1
2,4-DINITROTOLUENE	N.D.	0.10	N.D.	81.8	1
2,6-DINITROTOLUENE	N.D.	0.20	N.D.	--	1
DIETHYL PHTHALATE	N.D.	0.50	N.D.	--	1
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809020
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY
Received: September 2, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-18 3.5'

Spl#: 204115

Matrix: SOIL

Extracted: September 3, 1998

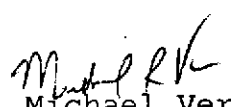
Sampled: September 2, 1998

Run#: 14739

Analyzed: September 4, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
FLUORENE	N.D.	0.10	N.D.	--	1
4-NITROANILINE	N.D.	0.50	N.D.	--	1
2-METHYL-4,6-DINITROPHENOL	N.D.	0.50	N.D.	--	1
n-NITROSODIPHENYLAMINE	N.D.	0.10	N.D.	--	1
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--	1
HEXACHLOROBENZENE	N.D.	0.10	N.D.	--	1
PENTACHLOROPHENOL	N.D.	0.50	N.D.	63.0	1
PHENANTHRENE	N.D.	0.10	N.D.	--	1
ANTHRACENE	N.D.	0.10	N.D.	--	1
DI-N-BUTYL PHTHALATE	N.D.	2.0	N.D.	--	1
FLUORANTHENE	N.D.	0.10	N.D.	--	1
PYRENE	N.D.	0.10	N.D.	79.4	1
BUTYL BENZYL PHTHALATE	N.D.	0.50	N.D.	--	1
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.	--	1
BENZO (A) ANTHRACENE	N.D.	0.10	N.D.	--	1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.50	N.D.	--	1
CHRYSENE	N.D.	0.10	N.D.	--	1
DI-N-OCTYL PHTHALATE	N.D.	0.50	N.D.	--	1
BENZO (B) FLUORANTHENE	N.D.	0.10	N.D.	--	1
BENZO (K) FLUORANTHENE	N.D.	0.20	N.D.	--	1
BENZO (A) PYRENE	N.D.	0.050	N.D.	--	1
INDENO (1,2,3 C,D) PYRENE	N.D.	0.20	N.D.	--	1
DIBENZO (A,H) ANTHRACENE	N.D.	0.20	N.D.	--	1
BENZO (G,H,I) PERYLENE	N.D.	0.20	N.D.	--	1
BENZOIC ACID	N.D.	0.50	N.D.	--	1


Michael Lee
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809020

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY
Received: September 2, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-19 3.5'

Spl#: 204116

Matrix: SOIL

Extracted: September 3, 1998

Sampled: September 2, 1998

Run#: 14739

Analyzed: September 4, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
PHENOL	N.D.	0.10	N.D.	67.5	1
BIS(2-CHLOROETHYL) ETHER	N.D.	0.10	N.D.	--	1
2-CHLOROPHENOL	N.D.	0.10	N.D.	72.0	1
1,3-DICHLOROBENZENE	N.D.	0.10	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.	72.5	1
BENZYL ALCOHOL	N.D.	0.20	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	0.10	N.D.	--	1
2-METHYLPHENOL	N.D.	0.10	N.D.	--	1
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	0.10	N.D.	--	1
4-METHYLPHENOL	N.D.	0.20	N.D.	--	1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.10	N.D.	59.0	1
HEXACHLOROETHANE	N.D.	0.10	N.D.	--	1
NITROBENZENE	N.D.	0.10	N.D.	--	1
ISOPHORONE	N.D.	0.10	N.D.	--	1
2-NITROPHENOL	N.D.	0.10	N.D.	--	1
2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.	--	1
BIS(2-CHLOROETHOXY) METHANE	N.D.	0.10	N.D.	--	1
2,4-DICHLOROPHENOL	N.D.	0.10	N.D.	--	1
1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	70.3	1
NAPHTHALENE	N.D.	0.10	N.D.	--	1
4-CHLOROANILINE	N.D.	0.20	N.D.	--	1
HEXACHLOROBUTADIENE	N.D.	0.10	N.D.	--	1
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	N.D.	72.0	1
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.	--	1
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	N.D.	--	1
2,4,6-TRICHLOROPHENOL	N.D.	0.10	N.D.	--	1
2,4,5-TRICHLOROPHENOL	N.D.	0.10	N.D.	--	1
2-CHLORONAPHTHALENE	N.D.	0.10	N.D.	--	1
2-NITROANILINE	N.D.	0.50	N.D.	--	1
DIMETHYL PHTHALATE	N.D.	0.50	N.D.	--	1
ACENAPHTHYLENE	N.D.	0.10	N.D.	--	1
3-NITROANILINE	N.D.	0.10	N.D.	--	1
ACENAPHTHENE	N.D.	0.10	N.D.	71.9	1
2,4-DINITROPHENOL	N.D.	0.50	N.D.	--	1
4-NITROPHENOL	N.D.	0.50	N.D.	73.0	1
DIBENZOFURAN	N.D.	0.10	N.D.	--	1
2,4-DINITROTOLUENE	N.D.	0.10	N.D.	81.8	1
2,6-DINITROTOLUENE	N.D.	0.20	N.D.	--	1
DIETHYL PHTHALATE	N.D.	0.50	N.D.	--	1
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809020
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Robert Kitay

Project: OLIVER RUBBER COMPANY
Received: September 2, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-19 3.5'

Spl#: 204116

Matrix: SOIL

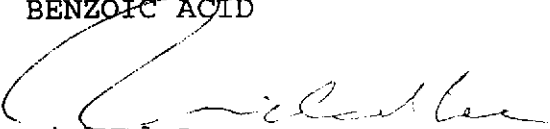
Extracted: September 3, 1998

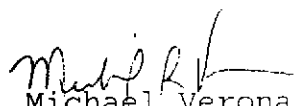
Sampled: September 2, 1998

Run#: 14739

Analyzed: September 4, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
FLUORENE	N.D.	0.10	N.D.	--	1
4-NITROANILINE	N.D.	0.50	N.D.	--	1
2-METHYL-4,6-DINITROPHENOL	N.D.	0.50	N.D.	--	1
n-NITROSODIPHENYLAMINE	N.D.	0.10	N.D.	--	1
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--	1
HEXACHLOROBENZENE	N.D.	0.10	N.D.	--	1
PENTACHLOROPHENOL	N.D.	0.50	N.D.	63.0	1
PHENANTHRENE	N.D.	0.10	N.D.	--	1
ANTHRACENE	N.D.	0.10	N.D.	--	1
DI-N-BUTYL PHTHALATE	N.D.	2.0	N.D.	--	1
FLUORANTHENE	N.D.	0.10	N.D.	--	1
PYRENE	N.D.	0.10	N.D.	79.4	1
BUTYL BENZYL PHTHALATE	N.D.	0.50	N.D.	--	1
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.	--	1
BENZO (A) ANTHRACENE	N.D.	0.10	N.D.	--	1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.50	N.D.	--	1
CHRYSENE	N.D.	0.10	N.D.	--	1
DI-N-OCTYL PHTHALATE	N.D.	0.50	N.D.	--	1
BENZO (B) FLUORANTHENE	N.D.	0.10	N.D.	--	1
BENZO (K) FLUORANTHENE	N.D.	0.20	N.D.	--	1
BENZO (A) PYRENE	N.D.	0.050	N.D.	--	1
INDENO (1,2,3 C,D) PYRENE	N.D.	0.20	N.D.	--	1
DIBENZO (A,H) ANTHRACENE	N.D.	0.20	N.D.	--	1
BENZO (G,H,I) PERYLENE	N.D.	0.20	N.D.	--	1
BENZOIC ACID	N.D.	0.50	N.D.	--	1


Michael Lee
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER
Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-20 7.5'

Spl#: 204391

Matrix: SOIL

Extracted: September 4, 1998

Sampled: September 3, 1998

Run#: 14723

Analyzed: September 8, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
PHENOL	N.D.	0.10	N.D.	77.5	1
BIS (2-CHLOROETHYL) ETHER	N.D.	0.10	N.D.	--	1
2-CHLOROPHENOL	N.D.	0.10	N.D.	78.5	1
1,3-DICHLOROBENZENE	N.D.	0.10	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.	76.8	1
BENZYL ALCOHOL	N.D.	0.20	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	0.10	N.D.	--	1
2-METHYLPHENOL	N.D.	0.10	N.D.	--	1
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.10	N.D.	--	1
4-METHYLPHENOL	N.D.	0.20	N.D.	--	1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.10	N.D.	74.8	1
HEXACHLOROETHANE	N.D.	0.10	N.D.	--	1
NITROBENZENE	N.D.	0.10	N.D.	--	1
ISOPHORONE	N.D.	0.10	N.D.	--	1
2-NITROPHENOL	N.D.	0.10	N.D.	--	1
2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.	--	1
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.10	N.D.	--	1
2,4-DICHLOROPHENOL	N.D.	0.10	N.D.	--	1
1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	72.9	1
NAPHTHALENE	N.D.	0.10	N.D.	--	1
4-CHLOROANILINE	N.D.	0.20	N.D.	--	1
HEXACHLOROBUTADIENE	N.D.	0.10	N.D.	--	1
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	N.D.	79.5	1
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.	--	1
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	N.D.	--	1
2,4,6-TRICHLOROPHENOL	N.D.	0.10	N.D.	--	1
2,4,5-TRICHLOROPHENOL	N.D.	0.10	N.D.	--	1
2-CHLORONAPHTHALENE	N.D.	0.10	N.D.	--	1
2-NITROANILINE	N.D.	0.50	N.D.	--	1
DIMETHYL PHTHALATE	N.D.	0.50	N.D.	--	1
ACENAPHTHYLENE	N.D.	0.10	N.D.	--	1
3-NITROANILINE	N.D.	0.10	N.D.	--	1
ACENAPHTHENE	N.D.	0.10	N.D.	76.9	1
2,4-DINITROPHENOL	N.D.	0.50	N.D.	--	1
4-NITROPHENOL	N.D.	0.50	N.D.	68.0	1
DIBENZOFURAN	N.D.	0.10	N.D.	--	1
2,4-DINITROTOLUENE	N.D.	0.10	N.D.	83.5	1
2,6-DINITROTOLUENE	N.D.	0.20	N.D.	--	1
DIETHYL PHTHALATE	N.D.	0.50	N.D.	--	1
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--	1

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S101 0:000405 MIKELEE 164

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER
Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-20 7.5'

Spl#: 204391

Matrix: SOIL

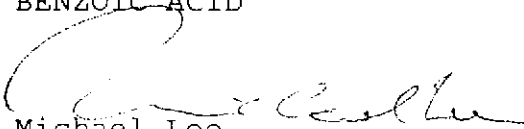
Extracted: September 4, 1998

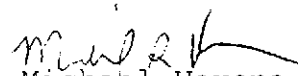
Sampled: September 3, 1998

Run#: 14723

Analyzed: September 8, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
FLUORENE	N.D.	0.10	N.D.	--	1
4-NITROANILINE	N.D.	0.50	N.D.	--	1
2-METHYL-4,6-DINITROPHENOL	N.D.	0.50	N.D.	--	1
n-NITROSODIPHENYLAMINE	N.D.	0.10	N.D.	--	1
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--	1
HEXACHLOROBENZENE	N.D.	0.10	N.D.	--	1
PENTACHLOROPHENOL	N.D.	0.50	N.D.	52.0	1
PHENANTHRENE	N.D.	0.10	N.D.	--	1
ANTHRACENE	N.D.	0.10	N.D.	--	1
DI-N-BUTYL PHTHALATE	N.D.	2.0	N.D.	--	1
FLUORANTHENE	N.D.	0.10	N.D.	--	1
PYRENE	N.D.	0.10	N.D.	75.4	1
BUTYL BENZYL PHTHALATE	N.D.	0.50	N.D.	--	1
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.	--	1
BENZO (A) ANTHRACENE	N.D.	0.10	N.D.	--	1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.50	N.D.	--	1
CHRYSENE	N.D.	0.10	N.D.	--	1
DI-N-OCTYL PHTHALATE	N.D.	0.50	N.D.	--	1
BENZO (B) FLUORANTHENE	N.D.	0.10	N.D.	--	1
BENZO (K) FLUORANTHENE	N.D.	0.20	N.D.	--	1
BENZO (A) PYRENE	N.D.	0.050	N.D.	--	1
INDENO (1,2,3 C,D) PYRENE	N.D.	0.20	N.D.	--	1
DIBENZO (A,H) ANTHRACENE	N.D.	0.20	N.D.	--	1
BENZO (G,H,I) PERYLENE	N.D.	0.20	N.D.	--	1
BENZOIC ACID	N.D.	0.50	N.D.	--	1


Michael Lee
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER
Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-21 9.5'

Spl#: 204392

Matrix: SOIL

Extracted: September 4, 1998

Sampled: September 3, 1998

Run#: 14723

Analyzed: September 4, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE FACTOR (%)	DILUTION FACTOR
PHENOL	0.29	0.10	N.D.	77.5	1
BIS (2-CHLOROETHYL) ETHER	N.D.	0.10	N.D.	--	1
2-CHLOROPHENOL	N.D.	0.10	N.D.	78.5	1
1,3-DICHLOROBENZENE	N.D.	0.10	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	0.10	N.D.	76.8	1
BENZYL ALCOHOL	N.D.	0.20	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	0.10	N.D.	--	1
2-METHYLPHENOL	N.D.	0.10	N.D.	--	1
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	0.10	N.D.	--	1
4-METHYLPHENOL	N.D.	0.20	N.D.	--	1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.10	N.D.	74.8	1
HEXACHLOROETHANE	N.D.	0.10	N.D.	--	1
NITROBENZENE	N.D.	0.10	N.D.	--	1
ISOPHORONE	N.D.	0.10	N.D.	--	1
2-NITROPHENOL	N.D.	0.10	N.D.	--	1
2,4-DIMETHYLPHENOL	N.D.	0.10	N.D.	--	1
BIS (2-CHLOROETHOXY) METHANE	N.D.	0.10	N.D.	--	1
2,4-DICHLOROPHENOL	N.D.	0.10	N.D.	--	1
1,2,4-TRICHLOROBENZENE	N.D.	0.10	N.D.	72.9	1
NAPHTHALENE	N.D.	0.10	N.D.	--	1
4-CHLOROANILINE	N.D.	0.20	N.D.	--	1
HEXACHLOROBUTADIENE	N.D.	0.10	N.D.	--	1
4-CHLORO-3-METHYLPHENOL	N.D.	0.20	N.D.	79.5	1
2-METHYLNAPHTHALENE	N.D.	0.10	N.D.	--	1
HEXACHLOROCYCLOPENTADIENE	N.D.	0.10	N.D.	--	1
2,4,6-TRICHLOROPHENOL	N.D.	0.10	N.D.	--	1
2,4,5-TRICHLOROPHENOL	N.D.	0.10	N.D.	--	1
2-CHLORONAPHTHALENE	N.D.	0.10	N.D.	--	1
2-NITROANILINE	N.D.	0.50	N.D.	--	1
DIMETHYL PHTHALATE	N.D.	0.50	N.D.	--	1
ACENAPHTHYLENE	N.D.	0.10	N.D.	--	1
3-NITROANILINE	N.D.	0.10	N.D.	--	1
ACENAPHTHENE	N.D.	0.10	N.D.	76.9	1
2,4-DINITROPHENOL	N.D.	0.50	N.D.	--	1
4-NITROPHENOL	N.D.	0.50	N.D.	68.0	1
DIBENZOFURAN	N.D.	0.10	N.D.	--	1
2,4-DINITROTOLUENE	N.D.	0.10	N.D.	83.5	1
2,6-DINITROTOLUENE	N.D.	0.20	N.D.	--	1
DIETHYL PHTHALATE	N.D.	0.50	N.D.	--	1
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--	1

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CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER
Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-21 9.5'

Spl#: 204392

Matrix: SOIL

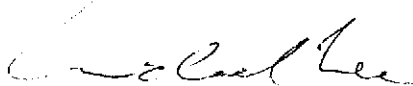
Extracted: September 4, 1998

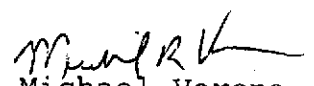
Sampled: September 3, 1998

Run#: 14723

Analyzed: September 4, 1998

ANALYTE	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE (%)	DILUTION FACTOR
FLUORENE	N.D.	0.10	N.D.	--	1
4-NITROANILINE	N.D.	0.50	N.D.	--	1
2-METHYL-4,6-DINITROPHENOL	N.D.	0.50	N.D.	--	1
n-NITROSODIPHENYLAMINE	N.D.	0.10	N.D.	--	1
4-BROMOPHENYL PHENYL ETHER	N.D.	0.10	N.D.	--	1
HEXACHLOROBENZENE	N.D.	0.10	N.D.	--	1
PENTACHLOROPHENOL	N.D.	0.50	N.D.	52.0	1
PHENANTHRENE	N.D.	0.10	N.D.	--	1
ANTHRACENE	N.D.	0.10	N.D.	--	1
DI-N-BUTYL PHTHALATE	N.D.	2.0	N.D.	--	1
FLUORANTHENE	N.D.	0.10	N.D.	--	1
PYRENE	N.D.	0.10	N.D.	75.4	1
BUTYL BENZYL PHTHALATE	N.D.	0.50	N.D.	--	1
3,3'-DICHLOROBENZIDINE	N.D.	0.20	N.D.	--	1
BENZO (A) ANTHRACENE	N.D.	0.10	N.D.	--	1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.50	N.D.	--	1
CHRYSENE	N.D.	0.10	N.D.	--	1
DI-N-OCTYL PHTHALATE	N.D.	0.50	N.D.	--	1
BENZO (B) FLUORANTHENE	N.D.	0.10	N.D.	--	1
BENZO (K) FLUORANTHENE	N.D.	0.20	N.D.	--	1
BENZO (A) PYRENE	N.D.	0.050	N.D.	--	1
INDENO (1,2,3 C,D) PYRENE	N.D.	0.20	N.D.	--	1
DIBENZO (A,H) ANTHRACENE	N.D.	0.20	N.D.	--	1
BENZO (G,H,I) PERYLENE	N.D.	0.20	N.D.	--	1
BENZOIC ACID	N.D.	0.50	N.D.	--	1


Michael Lee
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-18 WATER

Spl#: 204387

Matrix: WATER

Sampled: September 3, 1998

Run#: 14742

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE FACTOR (%)	DILUTION FACTOR
ACETONE	N.D.	50	N.D.	--	1
BENZENE	N.D.	2.0	N.D.	98.4	1
BROMODICHLOROMETHANE	N.D.	2.0	N.D.	--	1
BROMOFORM	N.D.	2.0	N.D.	--	1
BROMOMETHANE	N.D.	5.0	N.D.	--	1
2-BUTANONE (MEK)	N.D.	100	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	2.0	N.D.	--	1
CHLOROETHANE	N.D.	2.0	N.D.	103	1
2-CHLOROETHYLVINYLEETHER	N.D.	10	N.D.	--	1
CHLOROFORM	N.D.	3.0	N.D.	--	1
CHLOROMETHANE	N.D.	5.0	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	2.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	2.0	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	2.0	N.D.	--	1
1,2-DICHLOROETHENE (CIS)	N.D.	2.0	N.D.	106	1
1,2-DICHLOROETHENE (TRANS)	N.D.	2.0	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--	1
ETHYLBENZENE	N.D.	2.0	N.D.	--	1
2-HEXANONE	N.D.	50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.	--	1
STYRENE	N.D.	2.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	2.0	N.D.	--	1
TOLUENE	N.D.	2.0	N.D.	105	1
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.	--	1
TRICHLOROETHENE	N.D.	2.0	N.D.	95.0	1
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	2.0	N.D.	--	1
VINYL ACETATE	N.D.	20	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1
TOTAL XYLENES	N.D.	2.0	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-18 WATER

Spl#: 204387


Matrix: WATER


Sampled: September 3, 1998

Run#: 14742

Analyzed: September 4, 1998

<u>ANALYTE</u>	<u>RESULT</u> (ug/L)	<u>REPORTING</u> <u>LIMIT</u> (ug/L)	<u>BLANK</u> <u>RESULT</u> (ug/L)	<u>BLANK</u> <u>SPIKE</u> (%)	<u>DILUTION</u> <u>FACTOR</u>
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Oleg Nemtsov
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-19 WATER

Spl#: 204388

Matrix: WATER

Sampled: September 3, 1998

Run#: 14742

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	50	N.D.	--	1
BENZENE	N.D.	2.0	N.D.	98.4	1
BROMODICHLOROMETHANE	N.D.	2.0	N.D.	--	1
BROMOFORM	N.D.	2.0	N.D.	--	1
BROMOMETHANE	N.D.	5.0	N.D.	--	1
2-BUTANONE (MEK)	N.D.	100	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	2.0	N.D.	--	1
CHLOROBENZENE	N.D.	2.0	N.D.	103	1
CHLOROETHANE	N.D.	2.0	N.D.	--	1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.	--	1
CHLOROFORM	N.D.	3.0	N.D.	--	1
CHLOROMETHANE	N.D.	5.0	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	2.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	2.0	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	2.0	N.D.	106	1
1,2-DICHLOROETHENE (CIS)	N.D.	2.0	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	N.D.	2.0	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--	1
ETHYLBENZENE	N.D.	2.0	N.D.	--	1
2-HEXANONE	N.D.	50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.	--	1
STYRENE	N.D.	2.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	2.0	N.D.	--	1
TOLUENE	N.D.	2.0	N.D.	105	1
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.	--	1
TRICHLOROETHENE	N.D.	2.0	N.D.	95.0	1
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	2.0	N.D.	--	1
VINYL ACETATE	N.D.	20	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1
TOTAL XYLENES	N.D.	2.0	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-19 WATER

Spl#: 204388

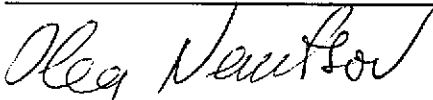
Matrix: WATER

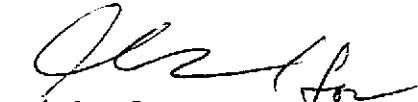
Sampled: September 3, 1998

Run#: 14742

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
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Oleg Nemtsov
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-20 WATER

Spl#: 204389

Matrix: WATER

Sampled: September 3, 1998

Run#: 14742

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	50	N.D.	--	1
BENZENE	N.D.	2.0	N.D.	98.4	1
BROMODICHLOROMETHANE	N.D.	2.0	N.D.	--	1
BROMOFORM	N.D.	2.0	N.D.	--	1
BROMOMETHANE	N.D.	5.0	N.D.	--	1
2-BUTANONE (MEK)	N.D.	100	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	2.0	N.D.	--	1
CHLOROBENZENE	N.D.	2.0	N.D.	103	1
CHLOROETHANE	N.D.	2.0	N.D.	--	1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.	--	1
CHLOROFORM	N.D.	3.0	N.D.	--	1
CHLOROMETHANE	N.D.	5.0	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.	--	1
1,1-DICHLOROETHANE	11	2.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	2.0	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,1-DICHLOROETHENE	260	2.0	N.D.	106	1
1,2-DICHLOROETHENE (CIS)	N.D.	2.0	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	N.D.	2.0	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--	1
ETHYLBENZENE	N.D.	2.0	N.D.	--	1
2-HEXANONE	N.D.	50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.	--	1
STYRENE	N.D.	2.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	2.0	N.D.	--	1
TOLUENE	N.D.	2.0	N.D.	105	1
1,1,1-TRICHLOROETHANE	99	2.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.	--	1
TRICHLOROETHENE	N.D.	2.0	N.D.	95.0	1
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	2.0	N.D.	--	1
VINYL ACETATE	N.D.	20	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1
TOTAL XYLENES	N.D.	2.0	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Volatile Organics by GC/MS analysis, continued.

Method: SW846 METHOD 8240A Nov 1990

Client Sample ID: BH-20 WATER

Spl#: 204389

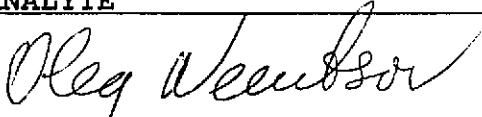
Matrix: WATER

Sampled: September 3, 1998

Run#: 14742

Analyzed: September 4, 1998

<u>ANALYTE</u>	<u>RESULT</u> (ug/L)	<u>REPORTING</u> <u>LIMIT</u> (ug/L)	<u>BLANK</u> <u>RESULT</u> (ug/L)	<u>BLANK</u> <u>SPIKE</u> (%)	<u>DILUTION</u> <u>FACTOR</u>
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Oleg Nemtsov
Analyst



Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for TCLP Volatile Organics by GC/MS analysis.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-21 WATER

Spl#: 204390

Matrix: WATER

Sampled: September 3, 1998

Run#: 14742

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
ACETONE	N.D.	50	N.D.	--	1
BENZENE	N.D.	2.0	N.D.	98.4	1
BROMODICHLOROMETHANE	N.D.	2.0	N.D.	--	1
BROMOFORM	N.D.	2.0	N.D.	--	1
BROMOMETHANE	N.D.	5.0	N.D.	--	1
2-BUTANONE (MEK)	N.D.	100	N.D.	--	1
CARBON TETRACHLORIDE	N.D.	2.0	N.D.	--	1
CHLOROBENZENE	N.D.	2.0	N.D.	103	1
CHLOROETHANE	N.D.	2.0	N.D.	--	1
2-CHLOROETHYLVINYLETHER	N.D.	10	N.D.	--	1
CHLOROFORM	N.D.	3.0	N.D.	--	1
CHLOROMETHANE	N.D.	5.0	N.D.	--	1
DIBROMOCHLOROMETHANE	N.D.	2.0	N.D.	--	1
1,1-DICHLOROETHANE	N.D.	2.0	N.D.	--	1
1,2-DICHLOROETHANE	N.D.	2.0	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,3-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	2.0	N.D.	--	1
1,1-DICHLOROETHENE	N.D.	2.0	N.D.	106	1
1,2-DICHLOROETHENE (CIS)	N.D.	2.0	N.D.	--	1
1,2-DICHLOROETHENE (TRANS)	N.D.	2.0	N.D.	--	1
1,2-DICHLOROPROPANE	N.D.	2.0	N.D.	--	1
CIS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--	1
TRANS-1,3-DICHLOROPROPENE	N.D.	2.0	N.D.	--	1
ETHYLBENZENE	N.D.	2.0	N.D.	--	1
2-HEXANONE	N.D.	50	N.D.	--	1
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--	1
4-METHYL-2-PENTANONE (MIBK)	N.D.	50	N.D.	--	1
STYRENE	N.D.	2.0	N.D.	--	1
1,1,2,2-TETRACHLOROETHANE	N.D.	2.0	N.D.	--	1
TETRACHLOROETHENE	N.D.	2.0	N.D.	--	1
TOLUENE	N.D.	2.0	N.D.	105	1
1,1,1-TRICHLOROETHANE	N.D.	2.0	N.D.	--	1
1,1,2-TRICHLOROETHANE	N.D.	2.0	N.D.	--	1
TRICHLOROETHENE	N.D.	2.0	N.D.	95.0	1
TRICHLOROFLUOROMETHANE	N.D.	2.0	N.D.	--	1
TRICHLOROTRIFLUOROETHANE	N.D.	2.0	N.D.	--	1
VINYL ACETATE	N.D.	20	N.D.	--	1
VINYL CHLORIDE	N.D.	5.0	N.D.	--	1
TOTAL XYLENES	N.D.	2.0	N.D.	--	1

Note: SURROGATE RECOVERIES DEMONSTRATE MATRIX INTERFERENCE

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for TCLP Volatile Organics by GC/MS analysis,
continued.

Method: SW846 METHOD 8260A Sept 1994

Client Sample ID: BH-21 WATER

Spl#: 204390

Matrix: WATER

Sampled: September 3, 1998

Run#: 14742

Analyzed: September 4, 1998

ANALYTE	REPORTING	BLANK	BLANK	DILUTION
	RESULT (ug/L)	RESULT (ug/L)	SPIKE (%)	FACTOR



Oleg Nemtsov
Analyst



Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER
Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-18 WATER

Spl#: 204387

Matrix: WATER

Extracted: September 4, 1998

Sampled: September 3, 1998

Run#: 14716

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
PHENOL	N.D.	5.4	N.D.	32.5	1
BIS(2-CHLOROETHYL) ETHER	N.D.	5.4	N.D.	--	1
2-CHLOROPHENOL	N.D.	5.4	N.D.	65.8	1
1,3-DICHLOROBENZENE	N.D.	5.4	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	5.4	N.D.	75.3	1
BENZYL ALCOHOL	N.D.	14	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	5.4	N.D.	--	1
2-METHYLPHENOL	N.D.	5.4	N.D.	--	1
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	5.4	N.D.	--	1
4-METHYLPHENOL	N.D.	5.4	N.D.	--	1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	5.4	N.D.	76.0	1
HEXACHLOROETHANE	N.D.	5.4	N.D.	--	1
NITROBENZENE	N.D.	5.4	N.D.	--	1
ISOPHORONE	N.D.	5.4	N.D.	--	1
2-NITROPHENOL	N.D.	5.4	N.D.	--	1
2,4-DIMETHYLPHENOL	N.D.	5.4	N.D.	--	1
BIS(2-CHLOROETHOXY) METHANE	N.D.	14	N.D.	--	1
2,4-DICHLOROPHENOL	N.D.	5.4	N.D.	--	1
1,2,4-TRICHLOROBENZENE	N.D.	5.4	N.D.	70.3	1
NAPHTHALENE	N.D.	5.4	N.D.	--	1
4-CHLOROANILINE	N.D.	5.4	N.D.	--	1
HEXACHLOROBUTADIENE	N.D.	5.4	N.D.	--	1
4-CHLORO-3-METHYLPHENOL	N.D.	14	N.D.	72.5	1
2-METHYLNAPHTHALENE	N.D.	5.4	N.D.	--	1
HEXACHLOROCYCLOPENTADIENE	N.D.	5.4	N.D.	--	1
2,4,6-TRICHLOROPHENOL	N.D.	5.4	N.D.	--	1
2,4,5-TRICHLOROPHENOL	N.D.	5.4	N.D.	--	1
2-CHLORONAPHTHALENE	N.D.	5.4	N.D.	--	1
2-NITROANILINE	N.D.	27	N.D.	--	1
DIMETHYL PHTHALATE	N.D.	14	N.D.	--	1
ACENAPHTHYLENE	N.D.	5.4	N.D.	--	1
3-NITROANILINE	N.D.	27	N.D.	--	1
ACENAPHTHENE	N.D.	5.4	N.D.	86.0	1
2,4-DINITROPHENOL	N.D.	27	N.D.	--	1
4-NITROPHENOL	N.D.	27	N.D.	25.3	1
DIBENZOFURAN	N.D.	5.4	N.D.	--	1
2,4-DINITROTOLUENE	N.D.	5.4	N.D.	71.3	1
2,6-DINITROTOLUENE	N.D.	14	N.D.	--	1
DIETHYL PHTHALATE	N.D.	14	N.D.	--	1
4-CHLOROPHENYL PHENYL ETHER	N.D.	5.4	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER
Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-18 WATER

Spl#: 204387

Matrix: WATER

Extracted: September 4, 1998

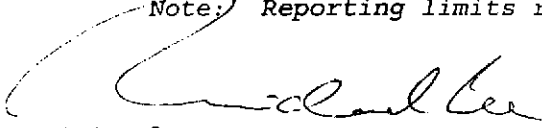
Sampled: September 3, 1998

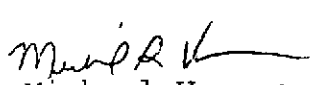
Run#: 14716

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
FLUORENE	N.D.	14	N.D.	--	1
4-NITROANILINE	N.D.	27	N.D.	--	1
2-METHYL-4,6-DINITROPHENOL	N.D.	27	N.D.	--	1
n-NITROSODIPHENYLAMINE	N.D.	5.4	N.D.	--	1
4-BROMOPHENYL PHENYL ETHER	N.D.	14	N.D.	--	1
HEXACHLOROBENZENE	N.D.	5.4	N.D.	--	1
PENTACHLOROPHENOL	N.D.	27	N.D.	45.8	1
PHENANTHRENE	N.D.	5.4	N.D.	--	1
ANTHRACENE	N.D.	5.4	N.D.	--	1
DI-N-BUTYL PHTHALATE	N.D.	14	N.D.	--	1
FLUORANTHENE	N.D.	5.4	N.D.	--	1
PYRENE	N.D.	5.4	N.D.	73.0	1
BUTYL BENZYL PHTHALATE	N.D.	14	N.D.	--	1
3,3'-DICHLOROBENZIDINE	N.D.	14	N.D.	--	1
BENZO (A) ANTHRACENE	N.D.	5.4	N.D.	--	1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	14	N.D.	--	1
CHRYSENE	N.D.	5.4	N.D.	--	1
DI-N-OCTYL PHTHALATE	N.D.	14	N.D.	--	1
BENZO (B) FLUORANTHENE	N.D.	5.4	N.D.	--	1
BENZO (K) FLUORANTHENE	N.D.	5.4	N.D.	--	1
BENZO (A) PYRENE	N.D.	5.4	N.D.	--	1
INDENO (1,2,3 C,D) PYRENE	N.D.	5.4	N.D.	--	1
DIBENZO (A,H) ANTHRACENE	N.D.	5.4	N.D.	--	1
BENZO (G,H,I) PERYLENE	N.D.	5.4	N.D.	--	1
BENZOIC ACID	N.D.	27	N.D.	--	1

Note: Reporting limits raised due to limited sample size.


Michael Lee
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER
Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-19 WATER

Spl#: 204388

Matrix: WATER

Extracted: September 4, 1998

Sampled: September 3, 1998

Run#: 14716

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
PHENOL	N.D.	5.0	N.D.	32.5	1
BIS(2-CHLOROETHYL) ETHER	N.D.	5.0	N.D.	--	1
2-CHLOROPHENOL	N.D.	5.0	N.D.	65.8	1
1,3-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	5.0	N.D.	75.3	1
BENZYL ALCOHOL	N.D.	12	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	5.0	N.D.	--	1
2-METHYLPHENOL	N.D.	5.0	N.D.	--	1
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	5.0	N.D.	--	1
4-METHYLPHENOL	N.D.	5.0	N.D.	--	1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	5.0	N.D.	76.0	1
HEXACHLOROETHANE	N.D.	5.0	N.D.	--	1
NITROBENZENE	N.D.	5.0	N.D.	--	1
ISOPHORONE	N.D.	5.0	N.D.	--	1
2-NITROPHENOL	N.D.	5.0	N.D.	--	1
2,4-DIMETHYLPHENOL	N.D.	5.0	N.D.	--	1
BIS(2-CHLOROETHOXY) METHANE	N.D.	12	N.D.	--	1
2,4-DICHLOROPHENOL	N.D.	5.0	N.D.	--	1
1,2,4-TRICHLOROBENZENE	N.D.	5.0	N.D.	70.3	1
NAPHTHALENE	N.D.	5.0	N.D.	--	1
4-CHLOROANILINE	N.D.	5.0	N.D.	--	1
HEXACHLOROBUTADIENE	N.D.	5.0	N.D.	--	1
4-CHLORO-3-METHYLPHENOL	N.D.	12	N.D.	72.5	1
2-METHYLNAPHTHALENE	N.D.	5.0	N.D.	--	1
HEXACHLOROCYCLOPENTADIENE	N.D.	5.0	N.D.	--	1
2,4,6-TRICHLOROPHENOL	N.D.	5.0	N.D.	--	1
2,4,5-TRICHLOROPHENOL	N.D.	5.0	N.D.	--	1
2-CHLORONAPHTHALENE	N.D.	5.0	N.D.	--	1
2-NITROANILINE	N.D.	25	N.D.	--	1
DIMETHYL PHTHALATE	N.D.	12	N.D.	--	1
ACENAPHTHYLENE	N.D.	5.0	N.D.	--	1
3-NITROANILINE	N.D.	25	N.D.	--	1
ACENAPHTHENE	N.D.	5.0	N.D.	86.0	1
2,4-DINITROPHENOL	N.D.	25	N.D.	--	1
4-NITROPHENOL	N.D.	25	N.D.	25.3	1
DIBENZOFURAN	N.D.	5.0	N.D.	--	1
2,4-DINITROTOLUENE	N.D.	5.0	N.D.	71.3	1
2,6-DINITROTOLUENE	N.D.	12	N.D.	--	1
DIETHYL PHTHALATE	N.D.	12	N.D.	--	1
4-CHLOROPHENYL PHENYL ETHER	N.D.	5.0	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

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AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-19 WATER

Spl#: 204388

Matrix: WATER

Extracted: September 4, 1998

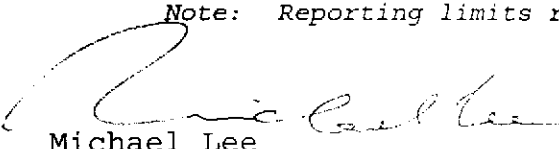
Sampled: September 3, 1998

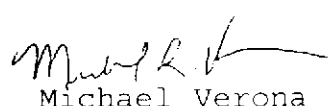
Run#: 14716

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
FLUORENE	N.D.	12	N.D.	--	1
4-NITROANILINE	N.D.	25	N.D.	--	1
2-METHYL-4,6-DINITROPHENOL	N.D.	25	N.D.	--	1
n-NITROSODIPHENYLAMINE	N.D.	5.0	N.D.	--	1
4-BROMOPHENYL PHENYL ETHER	N.D.	12	N.D.	--	1
HEXACHLOROENZENE	N.D.	5.0	N.D.	--	1
PENTACHLOROPHENOL	N.D.	25	N.D.	45.8	1
PHENANTHRENE	N.D.	5.0	N.D.	--	1
ANTHRACENE	N.D.	5.0	N.D.	--	1
DI-N-BUTYL PHTHALATE	N.D.	12	N.D.	--	1
FLUORANTHENE	N.D.	5.0	N.D.	--	1
PYRENE	N.D.	5.0	N.D.	73.0	1
BUTYL BENZYL PHTHALATE	N.D.	12	N.D.	--	1
3,3'-DICHLOROBENZIDINE	N.D.	12	N.D.	--	1
BENZO (A) ANTHRACENE	N.D.	5.0	N.D.	--	1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	12	N.D.	--	1
CHRYSENE	N.D.	5.0	N.D.	--	1
DI-N-OCTYL PHTHALATE	N.D.	12	N.D.	--	1
BENZO (B) FLUORANTHENE	N.D.	5.0	N.D.	--	1
BENZO (K) FLUORANTHENE	N.D.	5.0	N.D.	--	1
BENZO (A) PYRENE	N.D.	5.0	N.D.	--	1
INDENO (1,2,3 C,D) PYRENE	N.D.	5.0	N.D.	--	1
DIBENZO (A,H) ANTHRACENE	N.D.	5.0	N.D.	--	1
BENZO (G,H,I) PERYLENE	N.D.	5.0	N.D.	--	1
BENZOIC ACID	N.D.	25	N.D.	--	1

Note: Reporting limits raised due to limited sample size.


Michael Lee
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER

Project#: 3231

Received: September 3, 1998

re: One sample for Semivolatile Organics (B/NAs) analysis.

Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-20 WATER

Spl#: 204389

Matrix: WATER

Extracted: September 4, 1998

Sampled: September 3, 1998

Run#: 14716

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE FACTOR (%)	DILUTION FACTOR
PHENOL	N.D.	3.6	N.D.	32.5	1
BIS(2-CHLOROETHYL) ETHER	N.D.	3.6	N.D.	--	1
2-CHLOROPHENOL	N.D.	3.6	N.D.	65.8	1
1,3-DICHLOROBENZENE	N.D.	3.6	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	3.6	N.D.	75.3	1
BENZYL ALCOHOL	N.D.	8.9	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	3.6	N.D.	--	1
2-METHYLPHENOL	N.D.	3.6	N.D.	--	1
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	3.6	N.D.	--	1
4-METHYLPHENOL	N.D.	3.6	N.D.	--	1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	3.6	N.D.	76.0	1
HEXACHLOROETHANE	N.D.	3.6	N.D.	--	1
NITROBENZENE	N.D.	3.6	N.D.	--	1
ISOPHORONE	N.D.	3.6	N.D.	--	1
2-NITROPHENOL	N.D.	3.6	N.D.	--	1
2,4-DIMETHYLPHENOL	N.D.	3.6	N.D.	--	1
BIS(2-CHLOROETHOXY) METHANE	N.D.	8.9	N.D.	--	1
2,4-DICHLOROPHENOL	N.D.	3.6	N.D.	--	1
1,2,4-TRICHLOROBENZENE	N.D.	3.6	N.D.	70.3	1
NAPHTHALENE	N.D.	3.6	N.D.	--	1
4-CHLOROANILINE	N.D.	3.6	N.D.	--	1
HEXACHLOROBUTADIENE	N.D.	3.6	N.D.	--	1
4-CHLORO-3-METHYLPHENOL	N.D.	8.9	N.D.	72.5	1
2-METHYLNAPHTHALENE	N.D.	3.6	N.D.	--	1
HEXACHLOROCYCLOPENTADIENE	N.D.	3.6	N.D.	--	1
2,4,6-TRICHLOROPHENOL	N.D.	3.6	N.D.	--	1
2,4,5-TRICHLOROPHENOL	N.D.	3.6	N.D.	--	1
2-CHLORONAPHTHALENE	N.D.	3.6	N.D.	--	1
2-NITROANILINE	N.D.	18	N.D.	--	1
DIMETHYL PHTHALATE	N.D.	8.9	N.D.	--	1
ACENAPHTHYLENE	N.D.	3.6	N.D.	--	1
3-NITROANILINE	N.D.	18	N.D.	--	1
ACENAPHTHENE	N.D.	3.6	N.D.	86.0	1
2,4-DINITROPHENOL	N.D.	18	N.D.	--	1
4-NITROPHENOL	N.D.	18	N.D.	25.3	1
DIBENZOFURAN	N.D.	3.6	N.D.	--	1
2,4-DINITROTOLUENE	N.D.	3.6	N.D.	71.3	1
2,6-DINITROTOLUENE	N.D.	8.9	N.D.	--	1
DIETHYL PHTHALATE	N.D.	8.9	N.D.	--	1
4-CHLOROPHENYL PHENYL ETHER	N.D.	3.6	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER
Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-20 WATER

Spl#: 204389

Matrix: WATER

Extracted: September 4, 1998

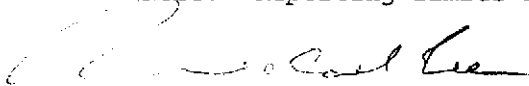
Sampled: September 3, 1998


Run#: 14716

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
FLUORENE	N.D.	8.9	N.D.	--	1
4-NITROANILINE	N.D.	18	N.D.	--	1
2-METHYL-4,6-DINITROPHENOL	N.D.	18	N.D.	--	1
n-NITROSODIPHENYLAMINE	N.D.	3.6	N.D.	--	1
4-BROMOPHENYL PHENYL ETHER	N.D.	8.9	N.D.	--	1
HEXACHLOROBENZENE	N.D.	3.6	N.D.	--	1
PENTACHLOROPHENOL	N.D.	18	N.D.	45.8	1
PHENANTHRENE	N.D.	3.6	N.D.	--	1
ANTHRACENE	N.D.	3.6	N.D.	--	1
DI-N-BUTYL PHTHALATE	N.D.	8.9	N.D.	--	1
FLUORANTHENE	N.D.	3.6	N.D.	--	1
PYRENE	N.D.	3.6	N.D.	73.0	1
BUTYL BENZYL PHTHALATE	9.4	8.9	N.D.	--	1
3,3'-DICHLOROBENZIDINE	N.D.	8.9	N.D.	--	1
BENZO (A) ANTHRACENE	N.D.	3.6	N.D.	--	1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	8.9	N.D.	--	1
CHRYSENE	N.D.	3.6	N.D.	--	1
DI-N-OCTYL PHTHALATE	N.D.	8.9	N.D.	--	1
BENZO (B) FLUORANTHENE	N.D.	3.6	N.D.	--	1
BENZO (K) FLUORANTHENE	N.D.	3.6	N.D.	--	1
BENZO (A) PYRENE	N.D.	3.6	N.D.	--	1
INDENO (1,2,3 C,D) PYRENE	N.D.	3.6	N.D.	--	1
DIBENZO (A,H) ANTHRACENE	N.D.	3.6	N.D.	--	1
BENZO (G,H,I) PERYLENE	N.D.	3.6	N.D.	--	1
BENZOIC ACID	N.D.	18	N.D.	--	1

Note: Reporting limits raised due to limited sample size.


Michael Lee
Analyst


Michael Verona
Operations Manager

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER
Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-21 WATER

Spl#: 204390

Matrix: WATER

Extracted: September 4, 1998

Sampled: September 3, 1998

Run#: 14716

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE FACTOR (%)	DILUTION FACTOR
PHENOL	N.D.	2.3	N.D.	32.5	1
BIS (2-CHLOROETHYL) ETHER	N.D.	2.3	N.D.	--	1
2-CHLOROPHENOL	N.D.	2.3	N.D.	65.8	1
1,3-DICHLOROBENZENE	N.D.	2.3	N.D.	--	1
1,4-DICHLOROBENZENE	N.D.	2.3	N.D.	75.3	1
BENZYL ALCOHOL	N.D.	5.8	N.D.	--	1
1,2-DICHLOROBENZENE	N.D.	2.3	N.D.	--	1
2-METHYLPHENOL	N.D.	2.3	N.D.	--	1
BIS (2-CHLOROISOPROPYL) ETHER	N.D.	2.3	N.D.	--	1
4-METHYLPHENOL	N.D.	2.3	N.D.	--	1
N-NITROSO-DI-N-PROPYLAMINE	N.D.	2.3	N.D.	76.0	1
HEXACHLOROETHANE	N.D.	2.3	N.D.	--	1
NITROBENZENE	N.D.	2.3	N.D.	--	1
ISOPHORONE	N.D.	2.3	N.D.	--	1
2-NITROPHENOL	N.D.	2.3	N.D.	--	1
2,4-DIMETHYLPHENOL	N.D.	2.3	N.D.	--	1
BIS (2-CHLOROETHOXY) METHANE	N.D.	5.8	N.D.	--	1
2,4-DICHLOROPHENOL	N.D.	2.3	N.D.	--	1
1,2,4-TRICHLOROBENZENE	N.D.	2.3	N.D.	70.3	1
NAPHTHALENE	N.D.	2.3	N.D.	--	1
4-CHLOROANILINE	N.D.	2.3	N.D.	--	1
HEXACHLOROBUTADIENE	N.D.	2.3	N.D.	--	1
4-CHLORO-3-METHYLPHENOL	N.D.	5.8	N.D.	72.5	1
2-METHYLNAPHTHALENE	N.D.	2.3	N.D.	--	1
HEXACHLOROCYCLOPENTADIENE	N.D.	2.3	N.D.	--	1
2,4,6-TRICHLOROPHENOL	N.D.	2.3	N.D.	--	1
2,4,5-TRICHLOROPHENOL	N.D.	2.3	N.D.	--	1
2-CHLORONAPHTHALENE	N.D.	2.3	N.D.	--	1
2-NITROANILINE	N.D.	12	N.D.	--	1
DIMETHYL PHTHALATE	N.D.	5.8	N.D.	--	1
ACENAPHTHYLENE	N.D.	2.3	N.D.	--	1
3-NITROANILINE	N.D.	12	N.D.	--	1
ACENAPHTHENE	N.D.	2.3	N.D.	86.0	1
2,4-DINITROPHENOL	N.D.	12	N.D.	--	1
4-NITROPHENOL	N.D.	12	N.D.	25.3	1
DIBENZOFURAN	N.D.	2.3	N.D.	--	1
2,4-DINITROTOLUENE	N.D.	2.3	N.D.	71.3	1
2,6-DINITROTOLUENE	N.D.	5.8	N.D.	--	1
DIETHYL PHTHALATE	N.D.	5.8	N.D.	--	1
4-CHLOROPHENYL PHENYL ETHER	N.D.	2.3	N.D.	--	1

CHROMALAB, INC.

Environmental Services (SDB)

September 8, 1998

Submission #: 9809040
page 2

AQUA SCIENCE ENGINEERS INC

Atten: Dave Allen

Project: OLIVER RUBBER
Received: September 3, 1998

Project#: 3231

re: One sample for Semivolatile Organics (B/NAs) analysis, continued.
Method: SW846 Method 8270A Nov 1990

Client Sample ID: BH-21 WATER

Spl#: 204390

Matrix: WATER

Extracted: September 4, 1998

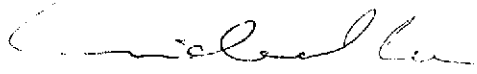
Sampled: September 3, 1998


Run#: 14716

Analyzed: September 4, 1998

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
FLUORENE	N.D.	5.8	N.D.	--	1
4-NITROANILINE	N.D.	12	N.D.	--	1
2-METHYL-4,6-DINITROPHENOL	N.D.	12	N.D.	--	1
n-NITROSODIPHENYLAMINE	N.D.	2.3	N.D.	--	1
4-BROMOPHENYL PHENYL ETHER	N.D.	5.8	N.D.	--	1
HEXACHLOROBENZENE	N.D.	2.3	N.D.	--	1
PENTACHLOROPHENOL	N.D.	12	N.D.	45.8	1
PHENANTHRENE	N.D.	2.3	N.D.	--	1
ANTHRACENE	N.D.	2.3	N.D.	--	1
DI-N-BUTYL PHTHALATE	N.D.	5.8	N.D.	--	1
FLUORANTHENE	N.D.	2.3	N.D.	--	1
PYRENE	N.D.	2.3	N.D.	73.0	1
BUTYL BENZYL PHTHALATE	N.D.	5.8	N.D.	--	1
3,3'-DICHLOROBENZIDINE	N.D.	5.8	N.D.	--	1
BENZO (A) ANTHRACENE	N.D.	2.3	N.D.	--	1
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	5.8	N.D.	--	1
CHRYSENE	N.D.	2.3	N.D.	--	1
DI-N-OCTYL PHTHALATE	N.D.	5.8	N.D.	--	1
BENZO (B) FLUORANTHENE	N.D.	2.3	N.D.	--	1
BENZO (K) FLUORANTHENE	N.D.	2.3	N.D.	--	1
BENZO (A) PYRENE	N.D.	2.3	N.D.	--	1
INDENO (1,2,3 C,D) PYRENE	N.D.	2.3	N.D.	--	1
DIBENZO (A,H) ANTHRACENE	N.D.	2.3	N.D.	--	1
BENZO (G,H,I) PERYLENE	N.D.	2.3	N.D.	--	1
BENZOIC ACID	N.D.	12	N.D.	--	1

Note: Reporting limits raised due to limited sample size.


Michael Lee
Analyst


Michael Verona
Operations Manager

115-116

41747

Aqua Science Engineers, Inc.
2411 Old Crow Canyon Road, #4,
San Ramon, CA 94583
(925) 820-9391
FAX (925) 837-4853

study

PAGE 1 OF 1

SAMPLER (SIGNATURE) <i>[Signature]</i>	(PHONE NO.) (925) 820-9391	PROJECT NAME <u>Oliver Rubber Company</u>	JOB NO. <u>3231</u>
		ADDRESS <u>1200 65th Street, Oakland, CA</u>	DATE <u>9-2-98</u>

ANALYSIS REQUEST

SPECIAL INSTRUCTIONS:
42 HOUR TIT

SAMPLE ID.	DATE	TIME	MATRIX	NO. OF SAMPLES	TPH-GAS / MTBE & BTEX (EPA 5030/8015-8020)	TPH-GASOLINE (EPA 5030/8015)	TPH-DIESEL (EPA 3510/8015)	PURGEABLE HALOCARBONS (EPA 601/8010)	PURGEABLE AROMATICS (EPA 602/8020)	VOLATILE ORGANICS (EPA 624/8240)	SEMI-VOLATILE ORGANICS (EPA 625/8270)	OIL & GREASE (EPA 5520)	LUFT METALS (5) (EPA 6010+7000)	CAM 17 METALS (EPA 6010+7000)	PCBs & PESTICIDES (EPA 608/8080)	ORGANOPHOSPHORUS PESTICIDES (EPA 8140)	ORGANOCHLORINE HERBICIDES (EPA 8150)	FUEL OXYGENATES (EPA 8260)				COMPOSITE	
<u>1</u>	<u>9/2</u>	<u>9:30</u>	<u>Soil</u>	<u>1</u>						<u>X</u>	<u>X</u>												
<u>2</u>	<u>9/2</u>	<u>9:30</u>	<u>Soil</u>	<u>1</u>						<u>X</u>	<u>X</u>												

ERIC TAM

RELINQUISHED BY: <i>[Signature]</i> (signature)	RECEIVED BY: <i>[Signature]</i> (signature)	RELINQUISHED BY: <i>[Signature]</i> (signature)	RECEIVED BY LABORATORY: <i>[Signature]</i> (signature)	COMMENTS: <u>42 HOUR TIT</u> <u>Results must be FAXed to ASIE by noon 9-8-98</u>
<u>10:35</u> (time)	<u>16:45</u> (time)	<u>16:45</u> (time)	<u>16:45</u> (time)	
<u>[Name]</u> (printed name)	<u>[Name]</u> (printed name)	<u>ERIC TAM</u> (printed name)	<u>Alexander Paules</u> (printed name)	
<u>9/2/98</u> (date)	<u>9/2/98</u> (date)	<u>9/2/98</u> (date)	<u>9/2/98</u> (date)	
Company: <u>[Name]</u>	Company: <u>[Name]</u>	Company: <u>[Name]</u>	Company: <u>Chromalab</u>	

99990 120138 1-96

CHROMALAB, INC.

Environmental Services (SDB) (DOHS 1094)

Reference #: 41783

Chain of Custody

16

DATE 9-3-98 PAGE 1 OF 1

PROJ MGR Zack Wilson
 COMPANY Agustin Serrano Engineering
 ADDRESS 208 W. El Pintado Road
Dunsmuir, CA 94524

SAMPLERS (SIGNATURE) Rick C. Kelley (PHONE NO.) 820-9341
 (FAX NO.) 837-4853

ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH (EPA 8015, 8020) <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX <input type="checkbox"/> MTBE	PURGEABLE AROMATICS BTEX (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPH (EPA 8015M) <input type="checkbox"/> Kerosene, <input type="checkbox"/> Diesel, <input type="checkbox"/> M.O.	PURGEABLE HALOCARBONS (HYOCs) (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMIVOLATILES (EPA 8270)	TOTAL OIL AND GREASE (SM 5520 B+F, E+F)	VOCs (EPA 8240)	<input type="checkbox"/> PESTICIDES (EPA 8080) <input type="checkbox"/> PCB'S (EPA 8080)	PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> TSS <input type="checkbox"/> TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 6010/7470/7471)	TOTAL LEAD	<input type="checkbox"/> W.E.T. (STLC) <input type="checkbox"/> TCLP	<input type="checkbox"/> Hexavalent Chromium <input type="checkbox"/> pH (24 hr hold time for H2O)	NUMBER OF CONTAINERS	
BH-18 Water	9/3	13:08	Water	114/None							X	X											5
BH-19 Water	↓	14:38	↓	↓							X	X											↓
BH-20 Water	↓	9:37	↓	↓							X	X											↓
BH-21 Water	↓	11:14	↓	↓							X	X											↓
BH-20 7.5'	9/3	7:00	Soil	None							X	X											↓
BH-21 7.5'	↓	10:30	↓	↓							X	X											↓
BH-21 9.5'	↓	10:42	↓	↓							X	X											↓

RUSH

PROJECT INFORMATION
 PROJECT NAME Oliver Rubber
 PROJECT NUMBER 3231
 P.O. # _____

SAMPLE RECEIPT
 TOTAL NO. OF CONTAINERS _____
 HEAD SPACE _____
 TEMPERATURE _____
 CONFORMS TO RECORD _____

TAT STANDARD 5-DAY _____ 24 (48) 72 _____ OTHER _____

Report: Routine Level 2 Level 3 Level 4 Electronic Report

SPECIAL INSTRUCTIONS/COMMENTS:
Must have results by 12:00 noon on 9-8-98!

RELINQUISHED BY 1 <u>Rick C. Kelley</u> 15:13 (SIGNATURE) (TIME) <u>Robert E. Kelley</u> 9-3-98 (PRINTED NAME) (DATE) ASE (COMPANY)	RELINQUISHED BY 2 _____ (SIGNATURE) (TIME) _____ (PRINTED NAME) (DATE) _____ (COMPANY)	RELINQUISHED BY 3 <u>Alexander Parzels</u> 17:04 (SIGNATURE) (TIME) <u>Alexander Parzels</u> 9-3-98 (PRINTED NAME) (DATE) <u>Chroma Lab</u> (COMPANY)
RECEIVED BY 1 <u>Alexander Parzels</u> 17:13 (SIGNATURE) (TIME) <u>Alexander Parzels</u> 9-3-98 (PRINTED NAME) (DATE) <u>Chroma Lab</u> (COMPANY)	RECEIVED BY 2 _____ (SIGNATURE) (TIME) _____ (PRINTED NAME) (DATE) _____ (COMPANY)	RECEIVED BY (LABORATORY) 3 <u>Alexander Parzels</u> 17:04 (SIGNATURE) (TIME) <u>Alexander Parzels</u> 9/3/98 (PRINTED NAME) (DATE) <u>Chroma Lab</u> (LAB)