

Professional Service Industries, Inc.

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(510) 685-2991

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NAME: J. P. Derhake

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NOTES: _____

① S.V. extra ② create aerator
③ enc + dispose

Realistically PSI will provide a F.S.
by 9/8/95. They'll decide from the above
3 + meet w/ County to discuss, then
another ap + schedule will be made

8/30/95 spw/J. Derhake

AUG-25-'95 FRI 16:11 ID:PSI/SF 510-685-2991 TEL NO:510/284-3070

#805 P01

Joseph P. Derhake
Department Manager, Environmental Services

RELEVANT EXPERIENCE

As the Department Manager of Environmental Services for Professional Service Industries, Inc. (PSI), Mr. Derhake is responsible for insuring that all Phase I Environmental Site Assessments (ESAs), soil and groundwater testing, remediation design, and environmental audits performed by PSI in Northern California are executed in the most client responsive and efficient fashion possible. Mr. Derhake has worked as a project engineer on Superfund cleanups, heavy metal cleanups, and LUST cleanups, and has served as a project manager for several Phase II and Phase III contamination assessments, tank removals, and Phase I ESAs.

CERTIFICATIONS

E.I.T. Professional Engineering
Environmental Site Assessment Certified - Phase I & II
EPA-accredited Asbestos Inspector, Contractor/Supervisor, and Management Planner
40-hour Hazardous Waste Worker
Certified Environmental Professional
Army Corps of Engineers Approved Site Supervisor

MEMBERSHIPS AND AFFILIATIONS

American Institute of Chemical Engineers
Chi Epsilon

EDUCATION

B.S. Civil/Environmental Engineering, Michigan State University, 1993.
University of California, Berkeley Extension, Environmental Law program

PROJECT EXPERIENCE

- * CPC Chemical, Superfund Site Remediation Pilot Study, Cordova, MI
- * Wisconsin Fuel and Light, Superfund Site Remediation Project, Wisconsin
- * Army Corps of Engineers Projects:
 - Holloman Air Force Base, Remediation System Installation, Alamogordo, NM
 - Bergstrom Air Force Base, Site Characterization & Phase III, Austin, TX
 - Carswell Air Force Base, Phase III Site Assessment, Fort Worth, TX
- * Visucraft, Heavy Metals Cleanup, El Paso, TX
- * Suburban Propane, Tank Removals, Phase IIIs, Remediation Design
 - Phoenix, AZ, Tracy, CA and Fresno, CA
- * Lockheed Corporation, Groundwater Investigation, TCE Plume, Fort Worth, TX
- * Citibank, Phase I ESAs, Asbestos and Lead Based Paint Surveys, California
- * Anheuser-Busch, Inc., Lead and Waste Oil Cleanup, Houston, TX
- * Lennar Partners Northeast, Underground Storage Tank, Soil and Groundwater Investigation, Tahoe Vista, CA
- * U.S. Mint, Underground Storage Tank Closures and Groundwater Investigation, San Francisco, CA
- * U.S. Coast Guard, Soil and Groundwater Investigations, Monterey and Alameda, CA
- * MCI, Subsurface Investigation and Remediation, San Francisco, CA

Glenn G. Hilton, RG

Project Geologist

RELEVANT EXPERIENCE

Mr. Hilton, a project geologist for Professional Service Industries, Inc., is primarily responsible for the design and implementation of site characterization studies and management of sampling programs for soil and groundwater sites impacted with chlorinated and petroleum hydrocarbons, volatile organics, and metals.

Mr. Hilton is a California Registered Geologist with a diverse professional background. He has conducted and managed a variety of environmental geotechnical, and petroleum exploration projects. In the environmental industry, he has prepared Phase I Environmental Site Assessments, conducted Site Characterization Studies for soil and groundwater contamination, implemented and managed groundwater monitoring activities, and has assisted in the design and implementation of remedial action programs for impacted soil and groundwater.

In addition, Mr. Hilton's field experience includes supervising drilling, mapping, well installation, and geochemical sampling of soil and groundwater. He has logged boreholes drilled by hollow stem auger, bucket auger, mud rotary, and air percussion methods.

CERTIFICATIONS

California Registered Geologist, #5318

EDUCATION

M.S. Geology, University of Texas at Dallas, 1986.
B.S. Geology, University of Texas at Dallas, 1981.

PROJECT EXPERIENCE

- * Home Savings of America, National Contract
- * Midland Loan Services, Retainer Contract
- * J.E. Roberts Companies
- * Tokai Bank of California
- * Colony Advisors, National Contract
- * Site Characterization and Soil Remediation, Large Automotive Facility, Phoenix, Arizona
- * Site Characterization, Numerous Active Service Stations, Southern California
- * Soil and Groundwater Characterization, Major Styrene Facility, Santa Ana
- * Characterized Chlorinated Hydrocarbon Plume, Warehouse, Carson
- * Soil Characterization, L.A. County Transit Commission
- * Phase I Environmental Site Assessments, California, Arizona, Nevada, Utah

Jules Cohen, Ph.D., P.E.

Vice President, Program Development

RELEVANT EXPERIENCE

Dr. Cohen has 23 years' experience as a commissioned officer in the U.S. Public Health Service achieving the rank of Captain (O-6). During his service with the USPHS he was involved primarily with water pollution and other environmental health issues. He served as Chief of the Environmental Services Branch at the Arctic Health Research Center in Fairbanks, Alaska, and was detailed to the EPA as Technical Coordinator for the National Enforcement Investigation Center. He received the USPHS Commissioned Officer Award and EPA Bronze Medal for Commendable Service.

CERTIFICATIONS

Professional Engineer, NY, CO & TN

MEMBERSHIPS AND AFFILIATIONS

Diplomat in the American Academy of Environmental Engineers (AAEE)

AAEE Ad Hoc Committee on Hazardous/Toxic Waste Management

EPA Environmental Engineering Peer Review Panel

Air and Waste Management Association Committee on Ambient Air Monitoring

Water Pollution Control Federation Specialty Conference Committee

EDUCATION

Ph.D. Environmental Health Engineering, California Institute of Technology, 1965.

M.S. Environmental Health, University of Colorado, 1958.

B.S. Civil Engineering, City College of New York, 1955.

PROJECT EXPERIENCE

* Phelps-Dodge, New York, NY

* Goddard Space Flight Center, Greenbelt, MD

* Phillips Petroleum Plants, Bartlesville, OK

* Quaker Oats, Nationwide

* EPA Alternative Remedial Contracting Strategy, Region VII

* Laboratory Director for EPA Superfund Projects

* Laboratory Director for U.S. Army Toxic & Hazardous Materials Agency Project

* Invented and patented EPA Stage II Vapor Recovery Test Procedure

David Siegel
Staff Geologist, Environmental Services

RELEVANT EXPERIENCE

As staff geologist for Professional Service Industries, Inc., (PSI), Mr. Siegel is responsible for conducting Phase I Environmental Site Assessments, asbestos surveys and sampling, soil and groundwater testing and environmental audits. Mr. Siegel has worked on a number of remedial investigations and remediation projects for underground storage tank and solvent sites, prepared feasibility study and remediation plans and installed groundwater monitoring, air sparging and vapor and groundwater extraction wells at contaminated sites. Mr. Siegel has conducted a large number of Phase I Environmental Site Assessments and several comprehensive asbestos surveys.

CERTIFICATIONS

Registered Environmental Assessor, California
EPA-accredited Asbestos Inspector, Management Planner, Contractor Supervisor, and
Project Designer
40-hour Hazardous Waste Worker
8-hour Hazardous Waste Operations Supervisor

EDUCATION

M.S. Geology, Hayward State University, 1988
University of California, Lead Paint Building Assessor
University of California, Groundwater Modeling for Remedial Actions

PROJECT EXPERIENCE

- Bank of America, Remedial Investigation, Remediation System Construction, Installation and Startup, Santa Rosa
- ARCO, Remedial Investigations, Soil Remediation, San Mateo, Daly City, Palo Alto
- Exxon, Remedial Investigations, San Jose and Daly City
- Exxon, Geotechnical and Environmental Investigation, Martinez
- Shell, Offsite Remedial Investigation, Santa Clara
- Unocal, Remedial Investigation and Underground Storage Tank Replacement
- Texaco, Remediation System Installation and Startup, San Francisco
- Icore International, Remedial Investigation and Site Assessment for Solvents
- Investors Thrift, Comprehensive Asbestos Assessment, San Jose
- Avis Rent A Car, Remedial Investigation and Feasibility Study, San Francisco Airport
- Budget Rent a Car, Remedial Investigations, Oakland and Fremont
- Bank of America, Phase I ESA's, California
- Wells Fargo, Phase I ESA's, California
- Lucky Stores, Phase I ESA and Asbestos Surveys, California
- Navy, Remedial Investigation, Feasibility Study, Remedial Action Plan, Lemoore
- City of Bakersfield, Site Investigation for Pesticides and Hydrocarbons, Bakersfield
- Sagwa Development, Site Investigation for Pesticides and Hydrocarbons, Fremont



Augeas Corporation
Groundwater Sampling Field Log

Portland, Oregon

10700 MacArthur

Oakland

Project Name/ No: Young's Cleaners

Client:

Project Manager: C. Connelly

Sampler: W.J. Schneider

Casing Diameter: 2 inch 3 inch 4 inch

Sample Depth (feet): 23.97 = 30%

Depth of Well (feet): 34.20

Depth to Water (feet): 21.42

12.78

7.89 = 3

Field Measurements

Lab I.D.: AMW - 1

Date: 3.23.95

Sample Location I.D.: _____

Start Time: 11:00

6 inch Other: _____

Calculated Purge Vol. (gal.) 234

Actual Purge Vol. (gal.) 230

80%
Plastic
Sleeve

Time	Cum	Volume (gal.) L	pH (units)	E.C. (umhos/cm)	Temperature Degrees C	Color (visual)	Other
12:30	10	6	6.25	1.48	56.2	Yellow/brown	sludge, rotters
12:37	12	6	6.18	6.99	50.8	"	"
12:46	18	6	6.51	0.36	48.4	"	"
12:50	23	6.5	6.51	12.20	50.4	"	"
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Purge Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: Good

Remarks: Purged 3 well volumes

Sampled at 100% ft recovery

Signature: Jeff Schenck

Conversion Factors

Volumes Per Unit Length Selected Well Casing Diameters

Volume Per Unit Length

Well Casing I.D. (inches)	Cubic			
	Gal/ft	Ft/ft	L/M	L/P
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

To Convert	Into	Multiply
lb. of Water	lbs/sq.in.	0.4335
lbs/Sq. inch	lb. of Water	2.3070
Cubic feet Gallons		7.4800
Gallons	Liters	3.7850
Foot	Meters	0.3048
Inches	Centimeters	2.5400



Augeas Corporation

Groundwater Sampling Field Log

Project Name/ No: Young's Cleaners

Client:

Project Manager: C. Conway

Sampler: W. Schindler

Casing Diameter: 2 inch 3 inch 4 inch

Sample Depth (feet): _____

Depth of Well (feet): 29.20

Depth to Water (feet): 13.13

$$16.08 \times 6.178 = 16.33 \text{ ft.}$$

9.93 3 Field Measurements

Lab I.D.: AMW-2

Date: 3-23-95

Sample Location I.D.: _____

Start Time: 11:00

6 inch _____ Other: _____

Calculated Purge Vol. (gal.) 30 L

Actual Purge Vol. (gal.) 30 L

fluctuating : 40
sinkhole : 40

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees C	Color (visual)	Other
<u>3:23</u>	<u>6</u>	<u>6</u>	<u>7.16</u>	<u>17.69</u>	<u>51.1</u>	<u>yellow/Red</u>	<u>No odor</u>
<u>3:28</u>	<u>12</u>	<u>6</u>	<u>7.20</u>	<u>16.59</u>	<u>53.9</u>	<u>"</u>	<u>"</u>
<u>3:32</u>	<u>18</u>	<u>6</u>	<u>7.21</u>	<u>17.21</u>	<u>52.6</u>	<u>"</u>	<u>"</u>
<u>3:38</u>	<u>24</u>	<u>6</u>	<u>7.19</u>	<u>17.61</u>	<u>51.9</u>	<u>"</u>	<u>"</u>
<u>3:40</u>	<u>30</u>	<u>6</u>	<u>7.20</u>	<u>17.61</u>	<u>52.0</u>	<u>"</u>	<u>"</u>
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

Purge Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: Good

Remarks: purged 3 well volumes

sampled at 100% recovery

Signature: W. Schindler

Conversion Factors

Volumes Per Unit Length Selected Well Casing Diameters

Volume Per Unit Length

Well Casing I.D. (inches)	Cubic			
	Gal/ft	Fl/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

To Convert	Into	Multiply
Fl. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Fl. of Water	2.3070
Cubic feet Gallons		7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400



Augeas Corporation

Groundwater Sampling Field Log

Project Name/ No: Young's Cleaners

Client:

Project Manager: C. Conway

Sampler: A. Schneider

Casing Diameter: 2 inch 3 inch 4 inch

Sample Depth (feet): 15.40 = 80% = 13.21

Depth of Well (feet): 29.18

Depth to Water (feet): 12.20

$$16.98 \times 0.178 = 80\% = 15.60 \quad \text{Field Measurements}$$

3:28

Lab I.D.: AMW-3

Date: 3-23-95

Sample Location I.D.: _____

Start Time: 11:00

6 inch Other: _____

Calculated Purge Vol. (gal.) 30 Liters

Actual Purge Vol. (gal.) 30 L

Checkers ϕ
Sinker ϕ

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees C	Color (visual)	Other
2:50	6	6	6.91	16.74	51.6	yellow/Br	no color
2:53	12	6	7.05	17.98	54.4	"	"
2:58	18	6	7.10	17.60	53.4	"	"
3:05	24	6	7.22	16.6	52.3	"	"
3:11	30	6	7.19	16.06	53.4	"	"

Purge Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: Good

Remarks: Sampled at 80% recovery
3 well volumes purged.

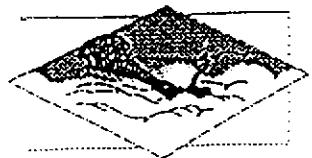
Signature: A. Schneider

Conversion Factors

Volume Per Unit Length Selected Well Casing Diameters
Volume Per Unit Length

Well Casing I.D. (inches)	Cubic			
	Gal/ft	Ft/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

To Convert	Into	Multiply
ft. of Water	lbs/sq.in.	0.4335
lbs/sq.inch	ft. of Water	2.3070
cubic feet/gallons		7.4800
gallons	liters	3.7850
feet	meters	0.30048
inches	centimeters	2.5400



Augeas Corporation

Groundwater Sampling Field Log

Project Name/ No: Young's Cleanups
 Client:
 Project Manager: C. Conway
 Sampler: W. Schrader
 Casing Diameter: 2 inch 3 inch 4 inch
 Sample Depth (feet): 13.31
 Depth of Well (feet): 25.10
 Depth to Water (feet): 13.06
12.04
7.43 x 6

Lab I.D.: AMW-4
 Date: 3-24-95
 Sample Location I.D.: _____
 Start Time: 8:00
 6 inch Other: _____

Calculated Purge Vol. (gal.) 44.1 L (develop)
 Actual Purge Vol. (gal.) 60 L

floaters ♀
sinkers ♀

Time	Cum	Volume (gal.) L.	pH (units)	E.C. (umhos/cm)	Temperature Degrees C	Color (visual)	Other
8:22	10	10	7.62	18.89	53.2	dk brown	/ very silty/no odo
8:30	20	10	7.71	18.12	48.3	"	"
8:37	30	10	7.81	17.91	48.5	"	"
8:43	40	10	7.91	18.02	49.4	"	"
8:48	50	10	7.91	18.05	50.1	"	"
8:53	60	10	7.96	17.89	50.9	clear	x

Purge Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: Good

Remarks: 10 well volumes purged (and more)

Sampled at 280% recovery

Signature: WJD

Conversion Factors

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing ID (inches)	Volume Per Unit Length			
	Gal/ft	ft/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

To Convert	Into	Multiply
ft. of Water	lbs/sq.in.	0.4335
lbs/sq. inch	ft. of Water	2.3070
cubic feet/gallons		7.4800
gallons	liters	3.7850
feet	meters	0.30048
inches	centimeters	2.5400



Augeas Corporation

Groundwater Sampling Field Log

Project Name/ No: Young's Cleaners

Client:

Project Manager: C. ConwaySampler: W. SchindlerCasing Diameter: 2 inch 3 inch 4 inch

Sample Depth (feet): _____

Depth of Well (feet): 30.30Depth to Water (feet): 13.9816.32 x .617810.0 m Field MeasurementsLab I.D.: AMW-5Date: 3-24-95

Sample Location I.D.: _____

Start Time: 8:006 inch Other: _____Calculated Purge Vol. (gal.) 60 LActual Purge Vol. (gal.) 60 Lfloaters
Sinters 10.10

Time	Cum	Volume (gal.)	pH (units)	E.C.(x100) (umhos/cm)	Temperature Degrees C	Color (visual)	Other
9:26	10	10	7.87	2.38	47.9	lt. yellow/Br	No Odor
9:32	20	10	8.05	3.50	51.9	cleaner	"
9:37	30	10	8.04	2.34	51.0	darked	"
9:44	40	10	8.14	2.52	52.9	"	No odor
9:52	50	10	7.96	2.57	51.2	"	"
10:01	60	10	8.15	2.43	49.8	"	silty

Purge Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: GoodRemarks: Purged (e well volumes)
Sampled at 100% recoverySignature: WiffConversion FactorsVolumes Per Unit Length Selected Well Casing DiametersVolume Per Unit Length

Well Casing I.D. (inches)	Cubic			
	Gal/ft	Ft/ft	L/M	L/ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

To Convert	Into	Multiply
ft. of Water	lbs/sq.in.	0.4335
lbs/sq.inch	ft. of Water	2.3070
cubic foot	gallons	7.4800
gallons	liters	3.7850
feet	meters	0.30048
inches	centimeters	2.5400



Augeas Corporation

Groundwater Sampling Field Log

Project Name/ No: Conway Young's

Client:

Project Manager: C. Conway

Sampler: W. Schrader

Casing Diameter: 2 inch 3 inch 4 inch

6 inch Other: _____

Sample Depth (feet): _____

Calculated Purge Vol. (gal.) 40.6

Depth of Well (feet): 52.10

Date: 3-24-95

Depth to Water (feet): 30.02

Sample Location I.D.: _____

Start Time: 12:50

Actual Purge Vol. (gal.) 40.6

Column 22.08

Volu 13,644.3

Field Measurements

1.25

Time	Cum (gal)	Volume (gal)	pH (units)	E.C. (umhos/cm)	Temperature Degrees C	Color (visual)	Other
12:57	10	10	10.81	1.42	60.2	lt. yellow	no odor
1:03	20	10	5.92	1.36	61.5		
1:11	30	10	5.91	1.23	52.0		
1:21	40	10	5.91	1.34	56.5		

Purge Method

2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: Well cap broken - Standing 10' in well / Integrity = 0%

Remarks: 3 well volumes purged

Sampled at 10% recovery

Signature: W. Schrader

Conversion Factors

Volumes Per Unit Length Selected Well Casing Diameters
Volume Per Unit Length

Well Casing ID. (inches)	Cubic			
	Gal/ft	Ft/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

To Convert	Into	Multiply
ft. of Water	lbs/sq.in.	0.4335
lbs/sq. inch	ft. of Water	2.3070
cubic feet	gallons	7.4800
gallons	liters	3.7850
feet	meters	0.30048
inches	centimeters	2.5400



Augeas Corporation

Groundwater Sampling Field Log

Project Name/ No: Young's Cleaners

Client:

Project Manager: C. CONNELL

Sampler: W. Schneider

Casing Diameter: 2 inch 3 inch 4 inch

Sample Depth (feet): _____

Depth of Well (feet): 36.82

Depth to Water (feet): 15.52

Lab I.D.: MW-7

Date: 3-24-95

Sample Location I.D.: _____

Start Time: 1:45

6 inch Other: _____

Calculated Purge Vol. (gal.) 40L

Actual Purge Vol. (gal.) 40L

*Flowing
Siphon* Strong odor
Broken sheet

7:10

Field Measurements

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees C	Color (visual)	Other
1:46	10	10	9.23	0.100	72.8	Clear	strong gas/dam odor
1:52	20	10	8.76	0.59	73.9	+	gas/dam odor
1:58	30	10	8.75	0.61	72.1	↓	broken sheet
2:04	40	10	9.12	0.61	72.1	↓	
—	—	—	—	—	—	—	
—	—	—	—	—	—	—	
—	—	—	—	—	—	—	

Purge Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Submersible Pump Cenentrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: good

Remarks: long black 1/2" diameter pipe in well - pulled out
to monitor, purged 3 well volumes,

sampled at 100% recovery.

Signature: W. Schneider

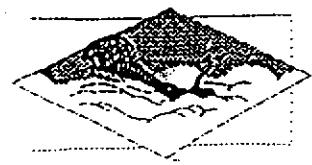
Conversion Factors

Volume Per Unit Length Selected Well Casing Diameters

Volume Per Unit Length

Well Casing I.D. (inches)	Cubic			
	Gal/ft	Ft/ft	L/M	L/Ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

To Convert	Into	Multiply
lb. of Water	lbs/sq.in.	0.4335
lbs/sq. inch	lb. of Water	2.3070
cubic feet/gallons		7.4800
gallons	liters	3.7850
feet	meters	0.30048
inches	centimeters	2.5400



Augeas Corporation

Groundwater Sampling Field Log

Project Name/ No: Young's Cleaners

Client:

Project Manager: C. Connery

Sampler: W. Schrader

Casing Diameter: 2 inch 3 inch 4 inch

Sample Depth (feet): 20.75 = 80% (21.70)

Depth of Well (feet): 28.48

Depth to Water (feet): 21.32

$$7.16 \times 2.411 = 80\% = 7.16 + .8 - 28.48 = 20.75$$

$$17.69 \times 3 = \text{Field Measurements}$$

Lab I.D.: NGR-MW-2

Date: 3-23-95

Sample Location I.D.: _____

Start Time: 11:00

6 inch _____ Other: _____

Calculated Purge Vol. (gal.) 53.2

Actual Purge Vol. (gal.) 53.2

2:15

Time	Cum	Volume (gal.)	pH (units)	E.C. (umhos/cm)	Temperature Degrees C	Color (visual)	Other
1:24	10	10	6.86	2.51	51.6	sooty, clear	H ₂ S odor
1:30	20	10	6.73	3.99	51.8	clearer	"
1:38	30	10	6.79	3.93	54.8	"yellowish	"
1:51	46	10	6.43	0.40	53.9		
2:00	53	13	6.45	10.8 + 1.0	62		
—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

Purge Method

2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: Okay, well was in standing H₂O, lid was not well

Remarks: Sealed, Air bubbles were escaping thru standing H₂O
chip on side of well casing allows surface run-off into well.

Sampled at 80%: 3 well volumes purged

Signature: W. Schrader

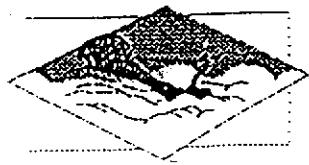
Conversion Factors

Volumes Per Unit Length Selected Well Casing Diameters

Volume Per Unit Length

Well Casing ID (inches)	Cubic			
	Gal/ft	ft/ft	l/m	l/ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

To Convert	Into	Multiply
ft. of Water	lbs/sq.in.	0.4335
lbs/sq.inch	ft. of Water	2.3070
cubic feet/gallons		7.4800
gallons	liters	3.7850
feet	meters	0.30048
inches	centimeters	2.5400



Augeas Corporation

Groundwater Sampling Field Log

Project Name/ No: YOUNG'S

Client:

Project Manager: C. ConwaySampler: W. SchroederCasing Diameter: 2 inch 3 inch 4 inch

Sample Depth (feet): _____

Depth of Well (feet): 27.00Depth to Water (feet): 12.60 $14.4 \times 2.4 = 35$ Field MeasurementsLab I.D.: WGR-MW-3Date: 3-24-95

Sample Location I.D.: _____

Start Time: 2:206 inch Other: _____Calculated Purge Vol. (gal.) 100 LActual Purge Vol. (gal.) 100 Lfloaters
sinkers 3:15

Time	Cum	Volume (gal.)	pH (units)	E.C. (mhos/cm)	Temperature Degrees C	Color (visual)	Other
2:25	20	20	8.86	0.52	86.5	clear	no odor
2:36	40	20	8.92	0.52	82.6		ov
2:45	60	20	8.92	0.52	72.3		slimy
2:58	80	20	8.19	0.52	89.1		
3:09	100	20	8.85	0.52	84.9		
(redacted)							

Purge Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Submersible Pump Cenentrifugal Pump Dipper Other
 Pneumatic Displacement Pump

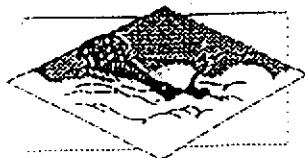
Sample Method

- 2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: GoodRemarks: black tube in well (to ventilate?) purged 3well volleys, sampled at 100% recoverySignature: WJSConversion FactorsVolume Per Unit Length Selected Well Casing DiametersVolume Per Unit Length

Well Casing I.D. (inches)	Cubic			
	Gal/ft	Ft/ft	L/M	L/F
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

To Convert	Into	Multiply
ft. of Water	lbs/sq.in.	0.4335
lbs/sq. inch	ft. of Water	2.3070
cubic feet/gallons		7.4800
gallons	liters	3.7850
feet	meters	0.30048
inches	centimeters	2.5400



Augeas Corporation

Groundwater Sampling Field Log

Project Name/ No: Young's Cleaners
 Client:
 Project Manager: C. Conway
 Sampler: W. Schrader
 Casing Diameter: 2 inch 3 inch 4 inch
 Sample Depth (feet): _____
 Depth of Well (feet): 45.10
 Depth to Water (feet): 34.20
20.9x

Lab I.D.: WGR-MW-4

Date: 3-24-95

Sample Location I.D.: _____

Start Time: 10:35

6 inch Other: _____

Calculated Purge Vol. (gal.) 150 L

Actual Purge Vol. (gal.) 150 L

floaters
sinkers

Field Measurements

Time	Volume (gal.)	Volume L	pH (units)	E.C. (umhos/cm)	Temperature Degrees C	Color (visual)	Other
10:31	30	30	8.48	2.42	60.1	clear no odor	
10:56	40	20	9.21	2.41	59.2	"	"
11:05	60	20	9.20	2.45	56.3	"	"
11:14	80	20	8.49	2.41	52.1	darker	"
11:27	100	20	8.49	2.46	53.1	"	"
11:38	120	20	8.48	2.42	53.5	lighter	"
11:56	150	30	8.49	Purge Method	53.0		

2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Submersible Pump Centrifugal Pump Dipper Other
 Pneumatic Displacement Pump

Sample Method

2" Bladder Pump Bailer (Teflon) Well Wizard Dedicated
 Surface Sampler Dipper Fultz Pump Other

Well Integrity: Good

Remarks: purged 3 well volumes

sampled at 100% integrity

Signature: W. Schrader

Conversion Factors

Volumes Per Unit Length Selected Well Casing Diameters

Well Casing I.D. (inches)	Cubic			
	Gal/ft	ft/ft	L/M	L/ft
1.5	0.0918	0.0123	1.140	0.3475
2.0	0.1632	0.0218	2.027	0.6178
3.0	0.3672	0.0491	4.560	1.3900
4.0	0.6528	0.0873	8.107	2.4710
6.0	1.4690	0.1963	18.240	5.5600

To Convert	Into	Multiply
Ft. of Water	Lbs/sq.in.	0.4335
Lbs/Sq. inch	Ft. of Water	2.3070
Cubic feet Gallons		7.4800
Gallons	Liters	3.7850
Feet	Meters	0.30048
Inches	Centimeters	2.5400

52.83

51.13

1.70

ft over 143 ft

.0119 ft/
ft

52.83

52.21

.61 A

$$\left(\frac{14}{.0119 \text{ ft}} \right) (.61 \text{ A}) = 51 \text{ ft}$$

52.83

52.21

.62 ft

over 45 ft

162
45

.0138 ft/ft, west

52.83

52.40

.43 ft

$$\left(\frac{14}{.0138 \text{ ft}} \right) (.43 \text{ ft})$$

52.60

52.40

.20

$$\begin{array}{r} 52.83 \\ 52.21 \\ \hline .62 \end{array} \text{ ft}$$

$$\frac{45}{\text{ft}}$$

$$\begin{array}{r} 52.83 \\ 52.4 \\ \hline .43 \end{array}$$

$$\left(\frac{104}{.0134 \text{ ft}} \right) (.43 \text{ ft})$$

• 0138 ft/ft, west

shallow aquifer

Table 3
Summary of Groundwater Analytical Results

Youngs Cleaners
10700 MacArthur Boulevard
Oakland, CA

(all results expressed in $\mu\text{g/L}$ except where noted)

Sample ID	Date	TPHs ⁽²⁾ No MCL listed	1,1-DCE ⁽³⁾ MCL= 6 $\mu\text{g/L}$	c-1,2-DCE MCL= 6 $\mu\text{g/L}$	t-1,2-DCE MCL= 10 $\mu\text{g/L}$	TCE ⁽⁵⁾ MCL= 5 $\mu\text{g/L}$	c-1,3-DCP ⁽⁶⁾ No MCL listed	1,1,2-TCA ⁽⁷⁾ MCL= 32 $\mu\text{g/L}$	PCE ⁽⁸⁾ MCL= 5 $\mu\text{g/L}$
WGR MW-2 (1)	2/10/94	<50	ND ⁽¹⁰⁾	ND	ND	ND	ND	ND	ND
	3/23/95	NA	NA	ND	ND	ND	ND	ND	ND
WGR MW3 (1)	2/10/94	NA ⁽⁹⁾	<0.5	ND	ND	ND	ND	ND	ND
	3/24/95	NA	NA	ND	ND	ND	ND	ND	7.8
WGR-MW-4	3/24/95	NA	ND	ND	ND	ND	ND	ND	ND
AMW-1	10/04/94	ND	ND	0.5	ND	ND	ND	ND	ND
	3/23/95	NA	NA	0.5	ND	ND	ND	ND	ND
AMW-2	10/04/94	200	8	110	50	320	4.2	ND	28,000
	10/18/94	<50	<0.5	ND	ND	ND	ND	ND	18,000
	11/08/94	NA	<0.5	ND	ND	ND	ND	ND	35,000
	3/23/95	NA	NA	ND	ND	ND	ND	ND	13,000
AMW-3	11/28/94	NA	ND	ND	ND	ND	ND	ND	22
	3/23/95	NA	ND	ND	ND	ND	ND	ND	45
B-4, grab	10/07/94	NA	4.2	130	19	180	11	14	11,000
B-5, grab	11/03/94	NA	ND	ND	ND	ND	ND	ND	1,000
B-6, grab	11/03/94	NA	ND	ND	ND	ND	ND	ND	870
B-7, grab	11/23/94	NA	ND	ND	ND	ND	ND	ND	19
B-8, grab	3/23/95	NA	ND	ND	ND	ND	ND	ND	1.1
AMW-4, grab	3/22/95	NA	ND	ND	ND	ND	ND	ND	33
AMW-5, grab	3/22/95	NA	ND	ND	ND	ND	ND	ND	1.1
WGR-MW-4	3/24/95	NA	ND	ND	ND	ND	ND	ND	21
MW-6	3/24/95	NA	ND	ND	ND	ND	ND	ND	2,000
MW-7	3/24/95	NA	ND	ND	ND	ND	ND	ND	21

(1) Wells WGR MW-2 and WGR MW-3 were analyzed for EPA 8240 compounds; none were detected

(2) TPHs =Total Petroleum Hydrocarbons as stoddard solvent (3) 1,1-Dichloroethene

(4) total 1,2-Dichloroethene (5) Trichloroethene (6) cis 1,2-Dichloropropene

(7) 1,1,2-Trichloroethane (8) Tetrachloroethene (9) Not Analyzed

(10) Not Detectable at laboratory detection limits. Detection limits vary with analyte and concentration.

Table 2

Page 1 of 3

Summary of Soil Analytical Results

Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in µg /Kg except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene (PCE) ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
B-2 - 6'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	6	ND	ND
B-2 - 11'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 16'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 21'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 24'	Soil	9-12-94	9-19-94	ND	ND	ND	ND	ND	ND	ND
B-3 - 6'	Soil	10-7-94	10-13-94	NA	ND	15	ND	ND	ND	ND
B-3 - 13'	Soil	10-7-94	10-13-94	NA	ND	ND	ND	ND	ND	ND
B-3 - 16'	Soil	10-7-94	10-13-94	NA	ND	12	ND	ND	ND	ND
B-3 - 21'	Soil	10-7-94	10-13-94	NA	ND	27	ND	ND	ND	ND
B-4 - 5.5'	Soil	10-7-94	10-13-94	NA	ND	1,600	ND	7	ND	ND
B-4 - 11'	Soil	10-7-94	10-13-94	NA	ND	70	ND	ND	ND	ND
B-4 - 16'	Soil	10-7-94	10-13-94	NA	ND	100	ND	10	ND	ND
B-4 - 21'	Soil	10-7-94	10-13-94	NA	ND	30	ND	ND	ND	ND
B-5 - 6'	Soil	11-3-94	11-10-94	NA	NA	1600	NA	NA	NA	NA
B5 - 10.5'	Soil	11-3-94	11-9-94	NA	NA	450	NA	NA	NA	NA
B5 - 15.5'	Soil	11-3-94	11-9-94	NA	NA	440	NA	NA	NA	NA
B5 - 20.5'	Soil	11-3-94	11-9-94	NA	NA	ND	NA	NA	NA	NA
B5 - 25.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA

Continued

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified. SQL of 1.0 mg/Kg.

(3): Tetrachloroethene by EPA SW-846 methods 5030 /8010. SQL of 5 µg/Kg.

(4): By method 8020. SQL of 5 µg/Kg.

(5) : By method 8020. SQL of 10 µg/Kg.

ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.

Table 2

Page 2 of 3

Summary of Soil Analytical Results

Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in $\mu\text{g}/\text{Kg}$ except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene ⁽³⁾ (PCE)	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
B6 - 10.5'	Soil	11-3-94	11-10-94	NA	NA	5000	NA	NA	NA	NA
B6 - 15'	Soil	11-3-94	11-10-94	NA	NA	590	NA	NA	NA	NA
B6 - 20.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA
B6 - 25.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA
B7 - 10.5'	Soil	11-30-94	11-30-94	NA	NA	38	NA	NA	NA	NA
B7 - 15.5	Soil	11-30-94	11-30-94	NA	NA	60	NA	NA	NA	NA
B7 - 20.5'	Soil	11-30-94	11-30-94	NA	NA	ND	NA	NA	NA	NA
B7 - 25.5'	Soil	11-30-94	11-30-94	NA	NA	ND	NA	NA	NA	NA
AMW-1-4'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-6'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-11'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-16'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	6	ND	18
AMW-1-21'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	6	ND	ND
AMW-1-26'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-31'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-34'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-2-10'	Soil	9-30-94	10-6-94	NA	ND	22,000	ND	ND	ND	ND
AMW-2-15'	Soil	9-30-94	10-6-94	NA	ND	90,000	ND	ND	ND	ND
AMW-2-20'	Soil	9-30-94	10-6-94	NA	ND	400	ND	ND	ND	ND
AMW-2-25'	Soil	9-30-94	10-6-94	NA	ND	30	ND	ND	ND	ND

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified SQL of 1.0 mg/Kg.

(3): Tetrachloroethene by EPA SW-846 methods 5030 /8010. SQL of 5 $\mu\text{g}/\text{Kg}$.(4): By method 8020. SQL of 5 $\mu\text{g}/\text{Kg}$.(5): By method 8020. SQL of 10 $\mu\text{g}/\text{Kg}$.

ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.

Table 2
Summary of Soil Analytical Results

Page 3 of 3

Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in $\mu\text{g}/\text{Kg}$ except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene (PCE) ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
AMW-3-5.5'	Soil	11-18-94	11-21-94	NA	NA	6	NA	NA	NA	NA
AMW-3-10'	Soil	11-18-94	11-21-94	NA	NA	390	NA	NA	NA	NA
AMW-3-15.5'	Soil	11-18-94	11-21-94	NA	NA	59	NA	NA	NA	NA
AMW-3-20.5'	Soil	11-18-94	11-21-94	NA	NA	820	NA	NA	NA	NA
AMW-3-25.5'	Soil	11-18-94	11-21-94	NA	NA	1400	NA	NA	NA	NA
AMW-4, 5.5'-6'	Soil	3-22-95	3-23-95	NA	NA	870	NA	NA	NA	NA
AMW-4, 10.5-11	Soil	3-22-95	3-23-95	NA	NA	13	NA	NA	NA	NA
AMW-4, 15.5-16	Soil	3-22-95	3-23-95	NA	NA	7.5	NA	NA	NA	NA
AMW-4, 20.5'-21'	Soil	3-22-95	3-23-95	NA	NA	5.3	NA	NA	NA	NA
AMW-4, 25.5'-26'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 5.5'-6'	Soil	3-22-95	3-23-95	NA	NA	1.1	NA	NA	NA	NA
AMW-5, 10.5-11	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 15.5-16	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 20.5'-21'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 25.5'-26'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 30.5'-31'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified SQL of 1.0 mg/Kg.

(3): Tetrachloroethene by EPA SW-846 methods 5030 /8010. SQL of 5 $\mu\text{g}/\text{Kg}$.

(4): By method 8020. SQL of 5 $\mu\text{g}/\text{Kg}$.

(5): By method 8020. SQL of 10 $\mu\text{g}/\text{Kg}$.

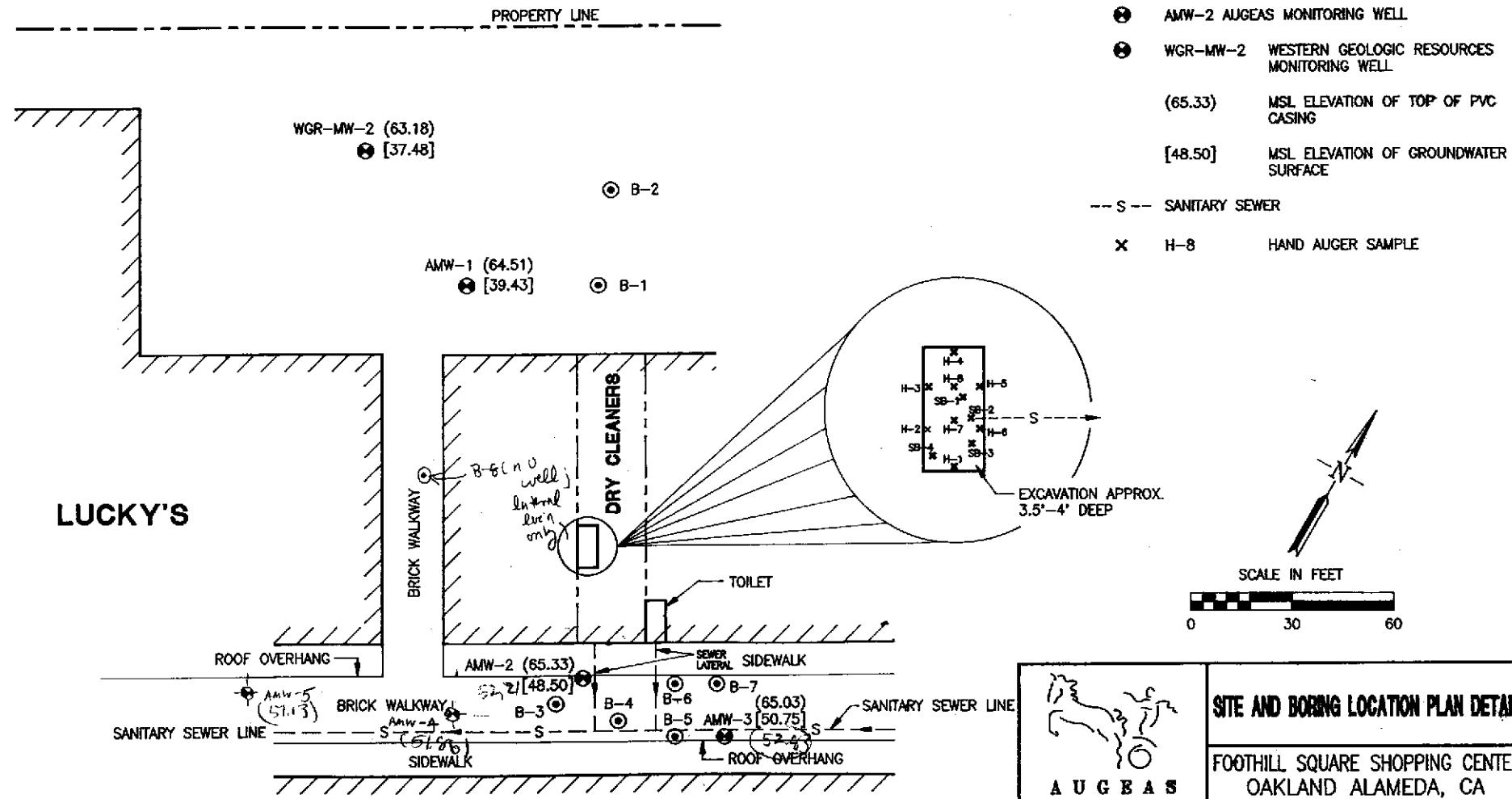
ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.

BENCHMARK

CUT SQUARE IN CURB RETURN AT THE SOUTHEAST CORNER OF 107th AVE AND McCARTHER BLVD.

ELEV = 55.172' MSL (USGS 1929)
TO OBTAIN ELEVATION PER CITY DATUM,
SUBTRACT 300 FEET FROM USGS ELEVATION.



COORDINATE TABLE

N 70° 28' 30" E

WELL ID	EASTING(X)	NORTHING(Y)	ELEV (MSL)
MW-1	817.5114	6944.5496	56.00'
MW-4	851.6791	6873.0512	56.04'
MW-3	880.7510	6864.2822	56.62'
MW-7 (N RIM)	879.0952	6778.0119	58.64'
MW-6 (N RIM)	955.8804	6848.3060	61.78'
WGR-MW2	1145.0200	6993.7389	63.18'
AMW-1	1193.3727	6979.2005	64.51'
AMW-2	1312.5906	6877.8287	65.33'
AMW-3	1356.7127	6888.9413	65.09'
UNKNOWN #1(N RIM)	1464.9458	7240.1577	66.56'
UNKNOWN #2(N RIM)	1802.9764	6931.7572	69.31'
B-1	1225.0645	7001.9263	N/A
B-2	1210.6547	7026.7806	N/A
B-3	1307.9159	6867.9305	N/A
B-4	1326.8757	6874.8507	N/A
B-5	1344.7276	6879.6445	N/A
B-6	1336.1303	6891.3611	N/A
B-7	1347.6508	6901.0199	N/A
B-8	1238.2948	6898.7060	N/A
WGR MW-3 (N RIM)	892.6101	6787.3101	58.34'
WGR MW-4 (N RIM)	1206.7733	6590.3851	60.02'

Table 2

Page 1 of 3

Summary of Soil Analytical Results

Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in $\mu\text{g}/\text{Kg}$ except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene (PCE) ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
B-2 - 6'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	6	ND	ND
B-2 - 11'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 16'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 21'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 24'	Soil	9-12-94	9-19-94	ND	ND	ND	ND	ND	ND	ND
B-3 - 6'	Soil	10-7-94	10-13-94	NA	ND	15	ND	ND	ND	ND
B-3 - 13'	Soil	10-7-94	10-13-94	NA	ND	ND	ND	ND	ND	ND
B-3 - 16'	Soil	10-7-94	10-13-94	NA	ND	12	ND	ND	ND	ND
B-3 - 21'	Soil	10-7-94	10-13-94	NA	ND	27	ND	ND	ND	ND
B-4 - 5.5'	Soil	10-7-94	10-13-94	NA	ND	1,600	ND	7	ND	ND
B-4 - 11'	Soil	10-7-94	10-13-94	NA	ND	70	ND	ND	ND	ND
B-4 - 16'	Soil	10-7-94	10-13-94	NA	ND	100	ND	10	ND	ND
B-4 - 21'	Soil	10-7-94	10-13-94	NA	ND	30	ND	ND	ND	ND
B-5 - 6'	Soil	11-3-94	11-10-94	NA	NA	1600	NA	NA	NA	NA
B-5 - 10.5'	Soil	11-3-94	11-9-94	NA	NA	450	NA	NA	NA	NA
B-5 - 15.5'	Soil	11-3-94	11-9-94	NA	NA	440	NA	NA	NA	NA
B-5 - 20.5'	Soil	11-3-94	11-9-94	NA	NA	ND	NA	NA	NA	NA
B-5 - 25.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA

Continued

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified. SQL of 1.0 mg/Kg.

(3): Tetrachloroethene by EPA SW-846 methods 5030 /8010. SQL of 5 $\mu\text{g}/\text{Kg}$.(4): By method 8020. SQL of 5 $\mu\text{g}/\text{Kg}$.(5): By method 8020. SQL of 10 $\mu\text{g}/\text{Kg}$.

ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.

Table 2

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Summary of Soil Analytical Results

Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in $\mu\text{g}/\text{Kg}$ except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene ⁽³⁾ (PCE)	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
B6 - 10.5'	Soil	11-3-94	11-10-94	NA	NA	5000	NA	NA	NA	NA
B6 - 15'	Soil	11-3-94	11-10-94	NA	NA	590	NA	NA	NA	NA
B6 - 20.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA
B6 - 25.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA
B7 - 10.5'	Soil	11-30-94	11-30-94	NA	NA	38	NA	NA	NA	NA
B7 - 15.5	Soil	11-30-94	11-30-94	NA	NA	60	NA	NA	NA	NA
B7 - 20.5'	Soil	11-30-94	11-30-94	NA	NA	ND	NA	NA	NA	NA
B7 - 25.5'	Soil	11-30-94	11-30-94	NA	NA	ND	NA	NA	NA	NA
AMW-1-4'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-6'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-11'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-16'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	6	ND	18
AMW-1-21'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	6	ND	ND
AMW-1-26'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-31'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-34'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-2-10'	Soil	9-30-94	10-6-94	NA	ND	22,000	ND	ND	ND	ND
AMW-2-15'	Soil	9-30-94	10-6-94	NA	ND	90,000	ND	ND	ND	ND
AMW-2-20'	Soil	9-30-94	10-6-94	NA	ND	400	ND	ND	ND	ND
AMW-2-25'	Soil	9-30-94	10-6-94	NA	ND	30	ND	ND	ND	ND

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified SQL of 1.0 mg/Kg.

(3): Tetrachloroethene by EPA SW-846 methods 5030 /8010. SQL of 5 $\mu\text{g}/\text{Kg}$.(4): By method 8020. SQL of 5 $\mu\text{g}/\text{Kg}$.(5) : By method 8020. SQL of 10 $\mu\text{g}/\text{Kg}$.

ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.

Table 2
Summary of Soil Analytical Results

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Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in $\mu\text{g}/\text{Kg}$ except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene ⁽³⁾ (PCE)	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
AMW-3-5.5'	Soil	11-18-94	11-21-94	NA	NA	6	NA	NA	NA	NA
AMW-3-10'	Soil	11-18-94	11-21-94	NA	NA	390	NA	NA	NA	NA
AMW-3-15.5'	Soil	11-18-94	11-21-94	NA	NA	59	NA	NA	NA	NA
AMW-3-20.5'	Soil	11-18-94	11-21-94	NA	NA	820	NA	NA	NA	NA
AMW-3-25.5'	Soil	11-18-94	11-21-94	NA	NA	1400	NA	NA	NA	NA
AMW-4, 5.5'-6'	Soil	3-22-95	3-23-95	NA	NA	870	NA	NA	NA	NA
AMW-4, 10.5-11	Soil	3-22-95	3-23-95	NA	NA	13	NA	NA	NA	NA
AMW-4, 15.5-16	Soil	3-22-95	3-23-95	NA	NA	7.5	NA	NA	NA	NA
AMW-4, 20.5'-21'	Soil	3-22-95	3-23-95	NA	NA	5.3	NA	NA	NA	NA
AMW-4, 25.5'-26'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 5.5'-6'	Soil	3-22-95	3-23-95	NA	NA	1.1	NA	NA	NA	NA
AMW-5, 10.5-11	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 15.5-16	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 20.5'-21'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 25.5'-26'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 30.5'-31'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified. SQL of 1.0 mg/Kg.

(3): Tetrachloroethene by EPA SW-846 methods 5030 /8010. SQL of 5 $\mu\text{g}/\text{Kg}$.

(4): By method 8020. SQL of 5 $\mu\text{g}/\text{Kg}$.

(5): By method 8020. SQL of 10 $\mu\text{g}/\text{Kg}$.

ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.

Table 2

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Summary of Soil Analytical Results

Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in $\mu\text{g}/\text{Kg}$ except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene ⁽³⁾ (PCE)	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
B-2 - 6'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	6	ND	ND
B-2 - 11'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 16'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 21'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 24'	Soil	9-12-94	9-19-94	ND	ND	ND	ND	ND	ND	ND
B-3 - 6'	Soil	10-7-94	10-13-94	NA	ND	15	ND	ND	ND	ND
B-3 - 13'	Soil	10-7-94	10-13-94	NA	ND	ND	ND	ND	ND	ND
B-3 - 16'	Soil	10-7-94	10-13-94	NA	ND	12	ND	ND	ND	ND
B-3 - 21'	Soil	10-7-94	10-13-94	NA	ND	27	ND	ND	ND	ND
B-4 - 5.5'	Soil	10-7-94	10-13-94	NA	ND	1,600	ND	7	ND	ND
B-4 - 11'	Soil	10-7-94	10-13-94	NA	ND	70	ND	ND	ND	ND
B-4 - 16'	Soil	10-7-94	10-13-94	NA	ND	100	ND	10	ND	ND
B-4 - 21'	Soil	10-7-94	10-13-94	NA	ND	30	ND	ND	ND	ND
B-5 - 6'	Soil	11-3-94	11-10-94	NA	NA	1600	NA	NA	NA	NA
B5 - 10.5'	Soil	11-3-94	11-9-94	NA	NA	450	NA	NA	NA	NA
B5 - 15.5'	Soil	11-3-94	11-9-94	NA	NA	440	NA	NA	NA	NA
B5 - 20.5'	Soil	11-3-94	11-9-94	NA	NA	ND	NA	NA	NA	NA
B5 - 25.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA

Continued

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified. SQL of 1.0 mg/Kg.

(3): Tetrachloroethene by EPA SW-846 methods 5030 /8010. SQL of 5 $\mu\text{g}/\text{Kg}$.(4): By method 8020. SQL of 5 $\mu\text{g}/\text{Kg}$.(5) : By method 8020. SQL of 10 $\mu\text{g}/\text{Kg}$.

ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.

Table 2

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Summary of Soil Analytical Results

Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in $\mu\text{g}/\text{Kg}$ except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene (PCE) ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
B6 - 10.5'	Soil	11-3-94	11-10-94	NA	NA	5000	NA	NA	NA	NA
B6 - 15'	Soil	11-3-94	11-10-94	NA	NA	590	NA	NA	NA	NA
B6 - 20.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA
B6 - 25.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA
B7 - 10.5'	Soil	11-30-94	11-30-94	NA	NA	38	NA	NA	NA	NA
B7 - 15.5	Soil	11-30-94	11-30-94	NA	NA	60	NA	NA	NA	NA
B7 - 20.5'	Soil	11-30-94	11-30-94	NA	NA	ND	NA	NA	NA	NA
B7 - 25.5'	Soil	11-30-94	11-30-94	NA	NA	ND	NA	NA	NA	NA
AMW-1-4'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-6'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-11'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-16'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	6	ND	18
AMW-1-21'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	6	ND	ND
AMW-1-26'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-31'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-34'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-2-10'	Soil	9-30-94	10-6-94	NA	ND	22,000	ND	ND	ND	ND
AMW-2-15'	Soil	9-30-94	10-6-94	NA	ND	90,000	ND	ND	ND	ND
AMW-2-20'	Soil	9-30-94	10-6-94	NA	ND	400	ND	ND	ND	ND
AMW-2-25'	Soil	9-30-94	10-6-94	NA	ND	30	ND	ND	ND	ND

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified SQL of 1.0 mg/Kg.

(3): Tetrachloroethene by EPA SW-846 methods 5030 /8010. SQL of 5 $\mu\text{g}/\text{Kg}$.(4): By method 8020. SQL of 5 $\mu\text{g}/\text{Kg}$.(5) : By method 8020. SQL of 10 $\mu\text{g}/\text{Kg}$.

ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.

Table 2
Summary of Soil Analytical Results

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Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in $\mu\text{g}/\text{Kg}$ except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene (PCE) ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
AMW-3-5.5'	Soil	11-18-94	11-21-94	NA	NA	6	NA	NA	NA	NA
AMW-3-10'	Soil	11-18-94	11-21-94	NA	NA	390	NA	NA	NA	NA
AMW-3-15.5'	Soil	11-18-94	11-21-94	NA	NA	59	NA	NA	NA	NA
AMW-3-20.5'	Soil	11-18-94	11-21-94	NA	NA	820	NA	NA	NA	NA
AMW-3-25.5'	Soil	11-18-94	11-21-94	NA	NA	1400	NA	NA	NA	NA
AMW-4, 5.5'-6'	Soil	3-22-95	3-23-95	NA	NA	870	NA	NA	NA	NA
AMW-4, 10.5-11	Soil	3-22-95	3-23-95	NA	NA	13	NA	NA	NA	NA
AMW-4, 15.5-16	Soil	3-22-95	3-23-95	NA	NA	7.5	NA	NA	NA	NA
AMW-4, 20.5'-21'	Soil	3-22-95	3-23-95	NA	NA	5.3	NA	NA	NA	NA
AMW-4, 25.5'-26'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 5.5'-6'	Soil	3-22-95	3-23-95	NA	NA	1.1	NA	NA	NA	NA
AMW-5, 10.5-11	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 15.5-16	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 20.5'-21'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 25.5'-26'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 30.5'-31'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified SQL of 1.0 mg/Kg.

(3): Tetrachloroethene by EPA SW-846 methods 5030 /8010. SQL of 5 $\mu\text{g}/\text{Kg}$.

(4): By method 8020. SQL of 5 $\mu\text{g}/\text{Kg}$.

(5): By method 8020. SQL of 10 $\mu\text{g}/\text{Kg}$.

ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.

Table 3
Summary of Groundwater Analytical Results

Youngs Cleaners
10700 MacArthur Boulevard
Oakland, CA

(all results expressed in $\mu\text{g/L}$ except where noted)

Sample ID	Date	TPHs ⁽²⁾ No MCL listed	1,1-DCE ⁽³⁾ MCL= 6 $\mu\text{g/L}$	c-1,2-DCE MCL= 6 $\mu\text{g/L}$	t-1,2-DCE MCL= 10 $\mu\text{g/L}$	TCE ⁽⁵⁾ MCL= 5 $\mu\text{g/L}$	c-1,3-DCP ⁽⁶⁾ No MCL listed	1,1,2-TCA ⁽⁷⁾ MCL= 32 $\mu\text{g/L}$	PCE ⁽⁸⁾ MCL= 5 $\mu\text{g/L}$
WGR MW-2 (1)	2/10/94	<50	ND ⁽¹⁰⁾	ND	ND	ND	ND	ND	ND
	3/23/95	NA	NA	ND	ND	ND	ND	ND	ND
WGR MW3 (1)	2/10/94	NA ⁽⁹⁾	<0.5	ND	ND	ND	ND	ND	ND
	3/24/95	NA	NA	ND	ND	ND	ND	ND	7.8
WGR-MW-4	3/24/95	NA	ND	ND	ND	ND	ND	ND	ND
AMW-1	10/04/94	ND	ND	0.5	ND	ND	ND	ND	ND
	3/23/95	NA	NA	0.5	ND	ND	ND	ND	ND
AMW-2	10/04/94	200	8	110	50	320	4.2	ND	28,000
	10/18/94	<50	<0.5	ND	ND	ND	ND	ND	18,000
	11/08/94	NA	<0.5	ND	ND	ND	ND	ND	35,000
	3/23/95	NA	NA	ND	ND	ND	ND	ND	13,000
AMW-3	11/28/94	NA	ND	ND	ND	ND	ND	ND	22
	3/23/95	NA	ND	ND	ND	ND	ND	ND	45
B-4, grab	10/07/94	NA	4.2	130	19	180	11	14	11,000
B-5, grab	11/03/94	NA	ND	ND	ND	ND	ND	ND	1,000
B-6, grab	11/03/94	NA	ND	ND	ND	ND	ND	ND	870
B-7, grab	11/23/94	NA	ND	ND	ND	ND	ND	ND	19
B-8, grab	3/23/95	NA	ND	ND	ND	ND	ND	ND	1.1
AMW-4, grab	3/22/95	NA	ND	ND	ND	ND	ND	ND	33
AMW-5, grab	3/22/95	NA	ND	ND	ND	ND	ND	ND	1.1
WGR-MW-4	3/24/95	NA	ND	ND	ND	ND	ND	ND	21
MW-6	3/24/95	NA	ND	ND	ND	ND	ND	ND	2,000
MW-7	3/24/95	NA	ND	ND	ND	ND	ND	ND	21

(1) Wells WGR MW-2 and WGR MW-3 were analyzed for EPA 8240 compounds; none were detected

(2) TPHs =Total Petroleum Hydrocarbons as stoddard solvent (3) 1,1-Dichloroethene

(4) total 1,2-Dichloroethene (5) Trichloroethene (6) cis 1,2-Dichloropropene

(7) 1,1,2-Trichloroethane (8) Tetrachloroethene (9) Not Analyzed

(10) Not Detectable at laboratory detection limits. Detection limits vary with analyte and concentration.

Table 3
Summary of Groundwater Analytical Results

Youngs Cleaners
10700 MacArthur Boulevard
Oakland, CA

(all results expressed in $\mu\text{g/L}$ except where noted)

Sample ID	Date	TPHs ⁽²⁾ No MCL listed	1,1-DCE ⁽³⁾ MCL = 6 $\mu\text{g/L}$	c-1,2-DCE MCL = 6 $\mu\text{g/L}$	t-1,2-DCE MCL = 10 $\mu\text{g/L}$	TCE ⁽⁵⁾ MCL = 5 $\mu\text{g/L}$	c-1,3-DCP ⁽⁶⁾ No MCL listed	1,1,2-TCA ⁽⁷⁾ MCL = 32 $\mu\text{g/L}$	PCE ⁽⁸⁾ MCL = 5 $\mu\text{g/L}$
WGR MW-2 (1)	2/10/94	<50	ND ⁽¹⁰⁾	ND	ND	ND	ND	ND	ND
	3/23/95	NA	NA	ND	ND	ND	ND	ND	ND
WGR MW3 (1)	2/10/94	NA ⁽⁹⁾	<0.5	ND	ND	ND	ND	ND	ND
	3/24/95	NA	NA	ND	ND	ND	ND	ND	7.8
WGR-MW-4	3/24/95	NA	ND	ND	ND	ND	ND	ND	ND
AMW-1	10/04/94	ND	ND	0.5	ND	ND	ND	ND	ND
	3/23/95	NA	NA	0.5	ND	ND	ND	ND	ND
AMW-2	10/04/94	200	8	110	50	320	4.2	ND	28,000
	10/18/94	<50	<0.5	ND	ND	ND	ND	ND	18,000
	11/08/94	NA	<0.5	ND	ND	ND	ND	ND	35,000
	3/23/95	NA	NA	ND	ND	ND	ND	ND	13,000
AMW-3	11/28/94	NA	ND	ND	ND	ND	ND	ND	22
	3/23/95	NA	ND	ND	ND	ND	ND	ND	45
B-4, grab	10/07/94	NA	4.2	130	19	180	11	14	11,000
B-5, grab	11/03/94	NA	ND	ND	ND	ND	ND	ND	1,000
B-6, grab	11/03/94	NA	ND	ND	ND	ND	ND	ND	870
B-7, grab	11/23/94	NA	ND	ND	ND	ND	ND	ND	19
B-8, grab	3/23/95	NA	ND	ND	ND	ND	ND	ND	1.1
AMW-4, grab	3/22/95	NA	ND	ND	ND	ND	ND	ND	33
AMW-5, grab	3/22/95	NA	ND	ND	ND	ND	ND	ND	1.1
WGR-MW-4	3/24/95	NA	ND	ND	ND	ND	ND	ND	21
MW-6	3/24/95	NA	ND	ND	ND	ND	ND	ND	2,000
MW-7	3/24/95	NA	ND	ND	ND	ND	ND	ND	21

(1) Wells WGR MW-2 and WGR MW-3 were analyzed for EPA 8240 compounds; none were detected

(2) TPHs =Total Petroleum Hydrocarbons as stoddard solvent

(3) 1,1-Dichloroethene

(4) total 1,2-Dichloroethene

(5) Trichloroethene

(6) cis 1,2-Dichloropropene

(7) 1,1,2-Trichloroethane

(8) Tetrachloroethene

(9) Not Analyzed

(10) Not Detectable at laboratory detection limits. Detection limits vary with analyte and concentration.

Table 3
Summary of Groundwater Analytical Results

Youngs Cleaners
10700 MacArthur Boulevard
Oakland, CA

(all results expressed in $\mu\text{g/L}$ except where noted)

Sample ID	Date	TPHs ⁽²⁾ No MCL listed	1,1-DCE ⁽³⁾ MCL = 6 $\mu\text{g/L}$	c-1,2-DCE MCL = 6 $\mu\text{g/L}$	t-1,2-DCE MCL = 10 $\mu\text{g/L}$	TCE ⁽⁵⁾ MCL = 5 $\mu\text{g/L}$	c-1,3-DCP ⁽⁶⁾ No MCL listed	1,1,2-TCA ⁽⁷⁾ MCL = 32 $\mu\text{g/L}$	PCE ⁽⁸⁾ MCL = 5 $\mu\text{g/L}$
WGR MW-2 (1)	2/10/94	<50	ND ⁽¹⁰⁾	ND	ND	ND	ND	ND	ND
	3/23/95	NA	NA	ND	ND	ND	ND	ND	ND
WGR MW-3 (1)	2/10/94	NA ⁽⁹⁾	<0.5	ND	ND	ND	ND	ND	ND
	3/24/95	NA	NA	ND	ND	ND	ND	ND	7.8
WGR-MW-4	3/24/95	NA	ND	ND	ND	ND	ND	ND	ND
AMW-1	10/04/94	ND	ND	0.5	ND	ND	ND	ND	ND
	3/23/95	NA	NA	0.5	ND	ND	ND	ND	ND
AMW-2	10/04/94	200	8	110	50	320	4.2	ND	28,000
	10/18/94	<50	<0.5	ND	ND	ND	ND	ND	18,000
	11/08/94	NA	<0.5	ND	ND	ND	ND	ND	35,000
	3/23/95	NA	NA	ND	ND	ND	ND	ND	13,000
AMW-3	11/28/94	NA	ND	ND	ND	ND	ND	ND	22
	3/23/95	NA	ND	ND	ND	ND	ND	ND	45
B-4, grab	10/07/94	NA	4.2	130	19	180	11	14	11,000
B-5, grab	11/03/94	NA	ND	ND	ND	ND	ND	ND	1,000
B-6, grab	11/03/94	NA	ND	ND	ND	ND	ND	ND	870
B-7, grab	11/23/94	NA	ND	ND	ND	ND	ND	ND	19
B-8, grab	3/23/95	NA	ND	ND	ND	ND	ND	ND	1.1
AMW-4, grab	3/22/95	NA	ND	ND	ND	ND	ND	ND	33
AMW-5, grab	3/22/95	NA	ND	ND	ND	ND	ND	ND	1.1
WGR-MW-4	3/24/95	NA	ND	ND	ND	ND	ND	ND	21
MW-6	3/24/95	NA	ND	ND	ND	ND	ND	ND	2,000
MW-7	3/24/95	NA	ND	ND	ND	ND	ND	ND	21

(1) Wells WGR MW-2 and WGR MW-3 were analyzed for EPA 8240 compounds; none were detected

(2) TPHs =Total Petroleum Hydrocarbons as stoddard solvent

(3) 1,1-Dichloroethene

(4) total 1,2-Dichloroethene

(5) Trichloroethene

(6) cis 1,2-Dichloropropene

(7) 1,1,2-Trichloroethane

(8) Tetrachloroethene

(9) Not Analyzed

(10) Not Detectable at laboratory detection limits. Detection limits vary with analyte and concentration.

Table 3
Summary of Groundwater Analytical Results

Youngs Cleaners
10700 MacArthur Boulevard
Oakland, CA

(all results expressed in $\mu\text{g/L}$ except where noted)

Sample ID	Date	TPHs ⁽²⁾ No MCL listed	1,1-DCE ⁽³⁾ MCL= 6 $\mu\text{g/L}$	c-1,2-DCE MCL= 6 $\mu\text{g/L}$	t-1,2-DCE MCL= 10 $\mu\text{g/L}$	TCE ⁽⁵⁾ MCL= 5 $\mu\text{g/L}$	c-1,3-DCP ⁽⁶⁾ No MCL listed	1,1,2-TCA ⁽⁷⁾ MCL= 32 $\mu\text{g/L}$	PCE ⁽⁸⁾ MCL= 5 $\mu\text{g/L}$
WGR MW-2 (1)	2/10/94	<50	ND ⁽¹⁰⁾	ND	ND	ND	ND	ND	ND
	3/23/95	NA	NA	ND	ND	ND	ND	ND	ND
WGR MW-3 (1)	2/10/94	NA ⁽⁹⁾	<0.5	ND	ND	ND	ND	ND	ND
	3/24/95	NA	NA	ND	ND	ND	ND	ND	7.8
WGR-MW-4	3/24/95	NA	ND	ND	ND	ND	ND	ND	ND
AMW-1	10/04/94	ND	ND	0.5	ND	ND	ND	ND	ND
	3/23/95	NA	NA	0.5	ND	ND	ND	ND	ND
AMW-2	10/04/94	200	8	110	50	320	4.2	ND	28,000
	10/18/94	<50	<0.5	ND	ND	ND	ND	ND	18,000
	11/08/94	NA	<0.5	ND	ND	ND	ND	ND	35,000
	3/23/95	NA	NA	ND	ND	ND	ND	ND	13,000
AMW-3	11/28/94	NA	ND	ND	ND	ND	ND	ND	22
	3/23/95	NA	ND	ND	ND	ND	ND	ND	45
B-4, grab	10/07/94	NA	4.2	130	19	180	11	14	11,000
B-5, grab	11/03/94	NA	ND	ND	ND	ND	ND	ND	1,000
B-6, grab	11/03/94	NA	ND	ND	ND	ND	ND	ND	870
B-7, grab	11/23/94	NA	ND	ND	ND	ND	ND	ND	19
B-8, grab	3/23/95	NA	ND	ND	ND	ND	ND	ND	1.1
AMW-4, grab	3/22/95	NA	ND	ND	ND	ND	ND	ND	33
AMW-5, grab	3/22/95	NA	ND	ND	ND	ND	ND	ND	1.1
WGR-MW-4	3/24/95	NA	ND	ND	ND	ND	ND	ND	21
MW-6	3/24/95	NA	ND	ND	ND	ND	ND	ND	2,000
MW-7	3/24/95	NA	ND	ND	ND	ND	ND	ND	21

(1) Wells WGR MW-2 and WGR MW-3 were analyzed for EPA 8240 compounds; none were detected

(2) TPHs =Total Petroleum Hydrocarbons as stoddard solvent

(3) 1,1-Dichloroethene

(4) total 1,2-Dichloroethene

(5) Trichloroethene

(6) cis 1,2-Dichloropropene

(7) 1,1,2-Trichloroethane

(8) Tetrachloroethene

(9) Not Analyzed

(10) Not Detectable at laboratory detection limits. Detection limits vary with analyte and concentration.

Table 2

Page 1 of 3

Summary of Soil Analytical Results

Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in µg /Kg except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene (PCE) ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
B-2 - 6'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	6	ND	ND
B-2 - 11'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 16'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 21'	Soil	9-12-94	9-16-94	ND	ND	ND	ND	ND	ND	ND
B-2 - 24'	Soil	9-12-94	9-19-94	ND	ND	ND	ND	ND	ND	ND
B-3 - 6'	Soil	10-7-94	10-13-94	NA	ND	15	ND	ND	ND	ND
B-3 - 13'	Soil	10-7-94	10-13-94	NA	ND	ND	ND	ND	ND	ND
B-3 - 16'	Soil	10-7-94	10-13-94	NA	ND	12	ND	ND	ND	ND
B-3 - 21'	Soil	10-7-94	10-13-94	NA	ND	27	ND	ND	ND	ND
B-4 - 5.5'	Soil	10-7-94	10-13-94	NA	ND	1,600	ND	7	ND	ND
B-4 - 11'	Soil	10-7-94	10-13-94	NA	ND	70	ND	ND	ND	ND
B-4 - 16'	Soil	10-7-94	10-13-94	NA	ND	100	ND	10	ND	ND
B-4 - 21'	Soil	10-7-94	10-13-94	NA	ND	30	ND	ND	ND	ND
B-5 - 6'	Soil	11-3-94	11-10-94	NA	NA	1600	NA	NA	NA	NA
B5 - 10.5'	Soil	11-3-94	11-9-94	NA	NA	450	NA	NA	NA	NA
B5 - 15.5'	Soil	11-3-94	11-9-94	NA	NA	440	NA	NA	NA	NA
B5 - 20.5'	Soil	11-3-94	11-9-94	NA	NA	ND	NA	NA	NA	NA
B5 - 25.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified. SQL of 1.0 mg/Kg.

(3): Tetrachloroethene by EPA SW-846 methods 5030 /8010. SQL of 5 µg/Kg.

(4): By method 8020. SQL of 5 µg/Kg.

(5) : By method 8020. SQL of 10 µg/Kg.

ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.

Continued

Table 2

Page 2 of 3

Summary of Soil Analytical Results

Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in $\mu\text{g}/\text{Kg}$ except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene (PCE) ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
B6 - 10.5'	Soil	11-3-94	11-10-94	NA	NA	5000	NA	NA	NA	NA
B6 - 15'	Soil	11-3-94	11-10-94	NA	NA	590	NA	NA	NA	NA
B6 - 20.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA
B6 - 25.5'	Soil	11-3-94	11-10-94	NA	NA	ND	NA	NA	NA	NA
B7 - 10.5'	Soil	11-30-94	11-30-94	NA	NA	38	NA	NA	NA	NA
B7 - 15.5	Soil	11-30-94	11-30-94	NA	NA	60	NA	NA	NA	NA
B7 - 20.5'	Soil	11-30-94	11-30-94	NA	NA	ND	NA	NA	NA	NA
B7 - 25.5'	Soil	11-30-94	11-30-94	NA	NA	ND	NA	NA	NA	NA
AMW-1-4'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-6'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-11'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-16'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	6	ND	18
AMW-1-21'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	6	ND	ND
AMW-1-26'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-31'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-1-34'	Soil	9-12-94	9-15-94	ND	ND	ND	ND	ND	ND	ND
AMW-2-10'	Soil	9-30-94	10-6-94	NA	ND	22,000	ND	ND	ND	ND
AMW-2-15'	Soil	9-30-94	10-6-94	NA	ND	90,000	ND	ND	ND	ND
AMW-2-20'	Soil	9-30-94	10-6-94	NA	ND	400	ND	ND	ND	ND
AMW-2-25'	Soil	9-30-94	10-6-94	NA	ND	30	ND	ND	ND	ND

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified SQL of 1.0 mg/Kg.

(3): Tetrachloroethene by EPA SW-846 methods 5030 /8010. SQL of 5 $\mu\text{g}/\text{Kg}$.(4): By method 8020. SQL of 5 $\mu\text{g}/\text{Kg}$.(5): By method 8020. SQL of 10 $\mu\text{g}/\text{Kg}$.

ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.

Table 2
Summary of Soil Analytical Results

Page 3 of 3

Young's Cleaners
 10700 MacArthur Boulevard
 Oakland, CA

(all results expressed in $\mu\text{g}/\text{Kg}$ except where noted)

Sample Identification	Sample Matrix	Sample Date	Analysis Date	Gasoline ⁽¹⁾	Stoddard Solvent ⁽²⁾	Tetra-Chloroethene (PCE) ⁽³⁾	Benzene ⁽⁴⁾	Toluene ⁽⁴⁾	Ethyl-Benzene ⁽⁴⁾	Xylenes ⁽⁵⁾
AMW-3-5.5'	Soil	11-18-94	11-21-94	NA	NA	6	NA	NA	NA	NA
AMW-3-10'	Soil	11-18-94	11-21-94	NA	NA	390	NA	NA	NA	NA
AMW-3-15.5'	Soil	11-18-94	11-21-94	NA	NA	59	NA	NA	NA	NA
AMW-3-20.5'	Soil	11-18-94	11-21-94	NA	NA	820	NA	NA	NA	NA
AMW-3-25.5'	Soil	11-18-94	11-21-94	NA	NA	1400	NA	NA	NA	NA
AMW-4, 5.5'-6'	Soil	3-22-95	3-23-95	NA	NA	870	NA	NA	NA	NA
AMW-4, 10.5-11	Soil	3-22-95	3-23-95	NA	NA	13	NA	NA	NA	NA
AMW-4, 15.5-16	Soil	3-22-95	3-23-95	NA	NA	7.5	NA	NA	NA	NA
AMW-4, 20.5'-21'	Soil	3-22-95	3-23-95	NA	NA	5.3	NA	NA	NA	NA
AMW-4, 25.5'-26'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 5.5'-6'	Soil	3-22-95	3-23-95	NA	NA	1.1	NA	NA	NA	NA
AMW-5, 10.5-11	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 15.5-16	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 20.5'-21'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 25.5'-26'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA
AMW-5, 30.5'-31'	Soil	3-22-95	3-23-95	NA	NA	<0.5	NA	NA	NA	NA

(1): Gasoline by EPA method 8015/5030. Sample Quantification Limit (SQL) of 0.5 mg/Kg.

(2): Stoddard Solvent by EPA method 8015 modified SQL of 1.0 mg/Kg.

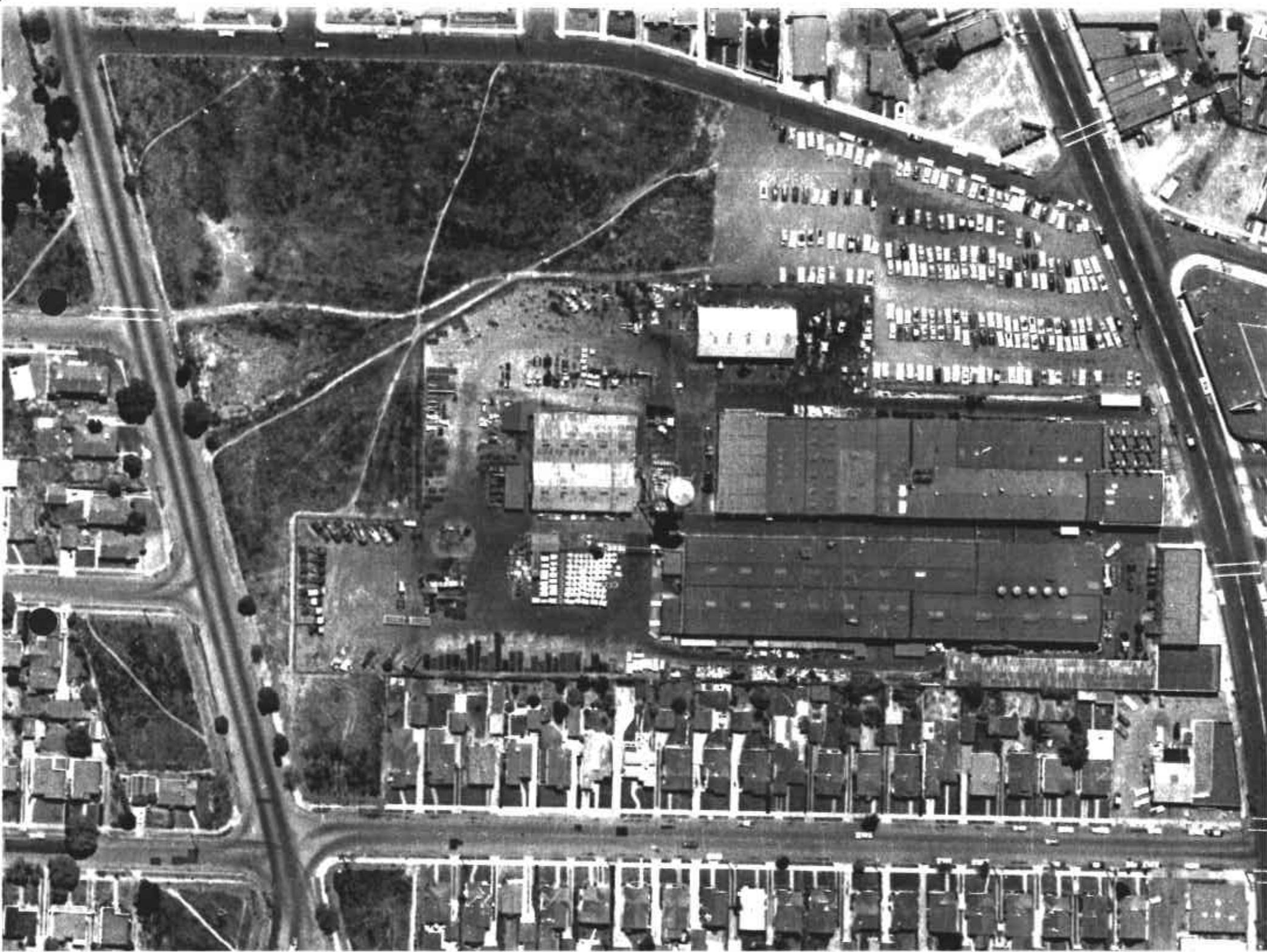
(3): Tetrachloroethene by EPA SW-846 methods 5030/8010. SQL of 5 $\mu\text{g}/\text{Kg}$.

(4): By method 8020. SQL of 5 $\mu\text{g}/\text{Kg}$.

(5): By method 8020. SQL of 10 $\mu\text{g}/\text{Kg}$.

ND: Not detected at the Sample Quantification Limit.

NA: Not analyzed for this parameter.



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Water Levels: 3-23, 3-24-45

WB R MW-2: 21.32'

AMW-1: 21.42'

AMW-2: 13.12'

AMW-3: 12.20'

AMW-4: 13.06'

AMW-5: 13.98'

WB R MW-4: 24.20'

<u>Well ID</u>	<u>el. PVC</u>	<u>Depth to GW</u>	<u>el. SG</u>
AMW - 1	64.51	21.42	43.04
AMW 2	65.33	13.12	52.21
AMW 3	65.03	12.20	52.83
AMW 4	69.42	13.06	51.86
AMW 5	65.11	13.98	51.13
WB.R.MW 2	63.18	21.32	41.86
WB.R.MW 3	58.34	12.60	45.74
WB.R.MW 4	60.02	29.20	35.82
MW 6	61.78	30.02	(54.78)
MW 7	58.64	15.52	43.12