

GROUNDWATER TECHNOLOGY, INC.

4080-D Pike Lane, Concord, CA 94520

(415) 671-2387

August 26, 1988

Job No. 203 799 5080.01

Mr. Michael A. Covarrubias
Sr. Vice President
The Martin Company
6425 Christie Avenue #406
Emeryville, CA 94608

Dear Mr. Covarrubias:

Please find enclosed analytical laboratory results of samples obtained weekly from July 11, through August 4, 1988, during the operation of the temporary water treatment system installed by Groundwater Technology, Inc. (GTI) at the Emeryville Market Place Development located at 5800 Shellmound Street in Emeryville, California. GTI was retained by the developer Christie Avenue Partners, as a consultant to design and implement a water-treatment system for water generated during trench dewatering operations at the site.

Analyses of effluent water samples from the treatment system were collected weekly during operation of the system. Analysis by U.S. Environmental Protection Agency (EPA) Methods 624 and 625 showed non-detectable levels of contamination except for one sample. The sample collected on July 11, 1988 from the effluent of the second carbon tank, in series, showed slight contamination by Tetrachloroethene at a level of 61 parts per billion (ppb). A duplicate sample, collected at the same time showed non-detectable levels. It is reasonable to assume the first sample, which showed contamination, was related to an error while sampling or in handling.

Mr. Covarrubias

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Currently the system is operating on an intermittent basis due to the availability of water to the system. This depends on the dewatering activities conducted by Strategic Organizational Systems International, Inc. (SOS).

Sincerely,
GROUNDWATER TECHNOLOGY, INC.

Kelly A. Kline

Kelly A. Kline
Geologist

Steven A. Fischbein

Steven A. Fischbein
Industrial Group Manager/
Hydrogeologist

Lynn E. Pera

Lynn E. Pera
Registered Engineer
#33431

KAK:lbn

Enclosure

L508001E.KK



GROUNDWATER
TECHNOLOGY, INC.

J. M. COHEN, Inc.

ENVIRONMENTAL & OCCUPATIONAL HEALTH SERVICES

August 1, 1988

Lowell Miller
Alameda County Health Department
470 27th St., Room 322
Oakland, CA 94612

Re: Emeryville Marketplace site report for the week of July 25, 1988

Dear Mr. Miller:

The following is a summary of activities and findings at the Emeryville Marketplace site for the week of July 25, 1988.

Attached are analytical results for air samples collected this week, and the week of July 11, 1988. Levels were well below applicable PELs. Also, please find a map and key explaining the map locations and sample information.

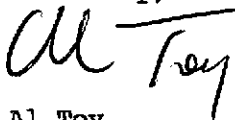
Various types of asphaltic materials continue to be encountered during sub-surface activities at this site. S.O.S., Inc. continues to clean up the building pad and nearby areas by gathering and bagging all visible tarpaper-like materials. Other materials continue to be treated and/or stockpiled per the plan presented by Earth Metrics.

More air sampling will be conducted, as necessary, to provide additional information regarding airborne concentrations of asbestos fibers at various locations on this site and its perimeter.

Worker protection continues to consist of protective gear (gloves, boots and coveralls) designed to prevent skin contact with hazardous materials. Respiratory protection will be provided if necessary.

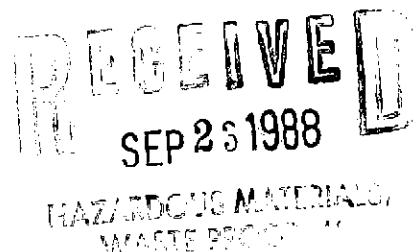
Please feel free to contact me if you have any questions or if I may be of assistance.

Sincerely,



Al Toy
Project Environmental Monitor

cc: R. Hughes, Groundwater Technology, Inc.
W. Kaczmarek, The Martin Co.
P. Kelly, SOS International
M. Papineau, Earth Metrics
G. Raymond, J.M. Cohen, Inc.
P. Sheehan, Aqua Terra Technologies
R. Wyatt, Brobeck, Phleger & Harrison



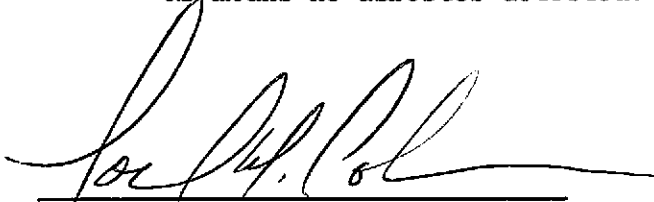
J. M. COHEN, Inc.

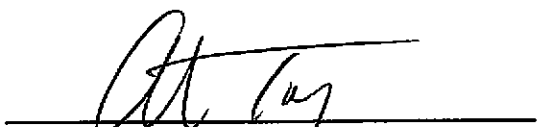
ENVIRONMENTAL & OCCUPATIONAL HEALTH SERVICES

RESULTS OF ANALYSIS OF AIR SAMPLES FOR ASBESTOS

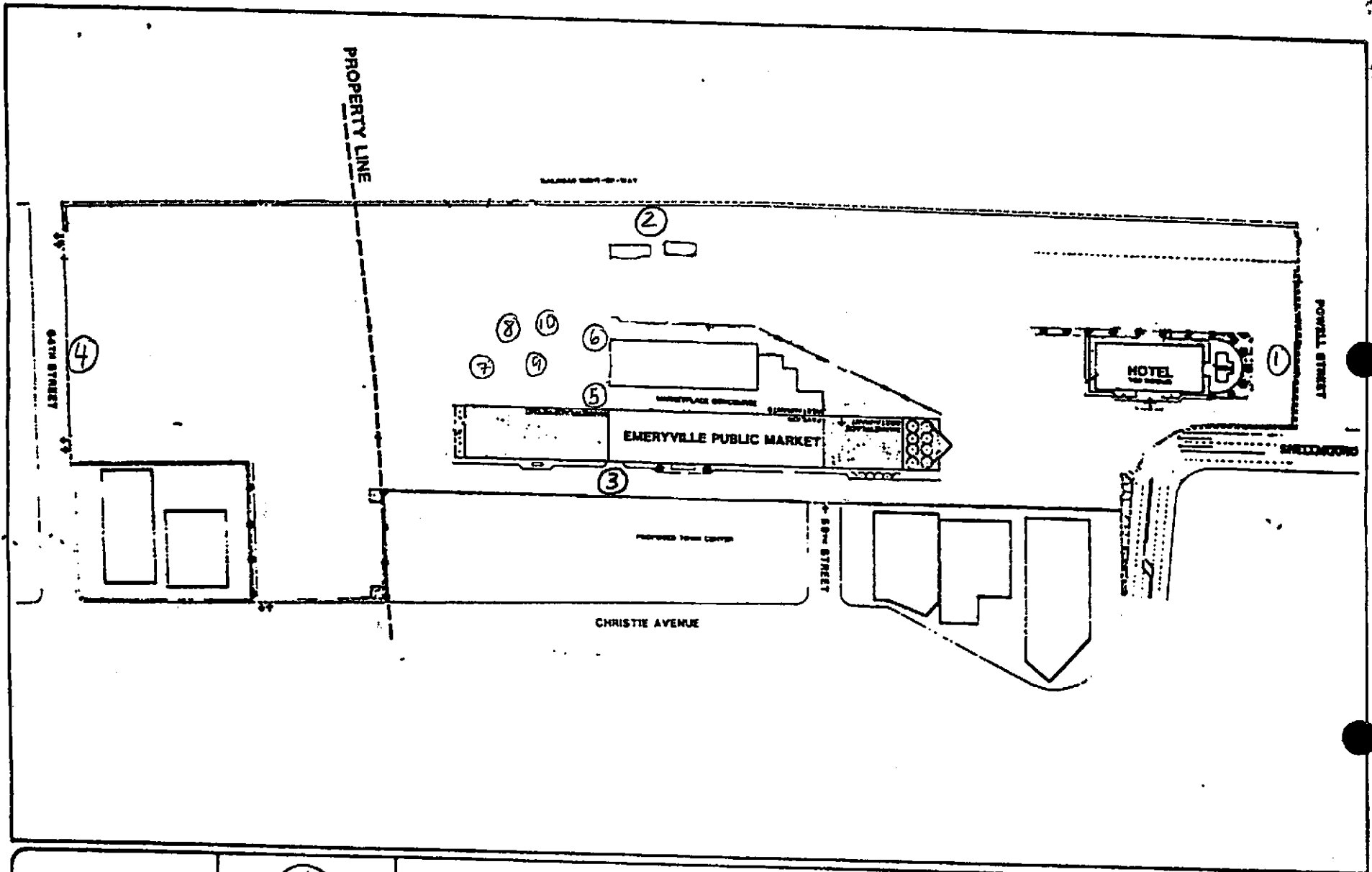
SAMPLE #	DESCRIPTION *	TIME (min)	VOLUME (litre)	MATERIAL FOUND (fibers/flds)	CONCENTRATION (fibers/cc)
071388-1	A - S.E. Fence	105	1092	5.5/100	<0.004
071388-2	A - N.E. Fence	105	1092	4.0/100	<0.004
071388-3	A - S.W. Fence	105	1092	2.5/100	<0.004
071988-1	A - N.W. Fence	96	996	3.0/100	**<L.O.Q.
071288-1	A - Bldg. Pad, Column 1	135	1404	27.0/100	0.008
071288-2	A - Bldg. Pad, Column 2	150	1424	18.0/100	0.004
071288-3	A - Bldg. Pad, Column 3	135	1404	23.0/100	0.006
071288-4	A - Bldg. Pad, Column 4	135	1404	11.0/100	<0.003
071488-3	P - Bldg. Pile Cap Area	180	450	11.0/100	<0.01
071488-4	P - Bldg. Pile Cap Area	180	450	17.0/100	0.02

Notes: * A = Area Sample
P = Personal Sample
** <L.O.Q. = Less than the limit of quantification
Fibers/flds means total fibers per optical fields counted.
Fibers/cc means net fibers per cubic centimeter of sampled air.
Quantification Limit = 10 fibers/100 optical fields.
OSHA Permissible Exposure Limits:
8-hr. Time weighted average concentration = 0.2 fibers/cc
8-hr. Time weighted average Action Limit = 0.1 fibers/cc
The determination was made by Phase Contrast Optical Microscopy
in accordance with NIOSH Method 7400.
The minimum limit of reliable quantification will vary and is
based on the detection limit for the method and the sample volume.
ND means no asbestos detected.


Joel M. Cohen, Director


Analyst

<u>MAP #</u>	<u>SAMPLE #</u>	<u>SAMPLE TYPE</u>	<u>ANALYZED FOR:</u>	<u>DATE</u>
1	071388-1	AIR	ASBESTOS	7-13-88
2	071388-2	AIR	ASBESTOS	7-13-88
3	071388-3	AIR	ASBESTOS	7-13-88
4	071988-1	AIR	ASBESTOS	7-19-88
5	071288-1	AIR	ASBESTOS	7-12-88
6	071288-2	AIR	ASBESTOS	7-12-88
7	071288-3	AIR	ASBESTOS	7-12-88
8	071288-4	AIR	ASBESTOS	7-12-88
9	071488-3	AIR (Personal)	ASBESTOS	7-13-88
10	071488-4	AIR (Personal)	ASBESTOS	7-13-88



SCALE
1" = 160'