

J. M. COHEN, Inc.

ENVIRONMENTAL & OCCUPATIONAL HEALTH SERVICES

April 22, 1987

Marc Papineau
Earth Metrics, Inc.
859 Cowan Road
Burlingame, CA 94010

Dear Marc,

Attached please find daily site visit reports for the Baycenter site. Also included is a preliminary report on air monitoring at the site, prepared for, and distributed to, a site safety committee meeting on April 13. As you can see, lead has not been detected in any of the samples. A final report for site air monitoring will be issued upon completion of the project.

If you have any questions on the attached material, or if I can be of assistance, please give me a call.

Sincerely,



J. M. COHEN, Inc.

ENVIRONMENTAL & OCCUPATIONAL HEALTH SERVICES

Preliminary Report - Baycenter Air Monitoring

<u>Employee/Area/Activity</u>	<u>Date</u>	<u>Sample Duration</u>	<u>Lead Concentration</u>
L. Abram/hand-cleaning	3/17/87	106 mins.	LT 4 ug/cu. meter
T. Green/hand-cleaning	"	102 "	LT 4 "
L. Abram/hand-cleaning	"	113 "	LT 3 "
T. Green/hand-cleaning	"	116 "	LT 3 "
Atop berm at NE corner	"	107 "	LT 4 "
SW corner	3/23/87	213 "	LT 4 "
SE corner	"	206 "	LT 3 "
NE corner	"	94 "	LT 7 "
NW corner	"	112 "	LT 6 "
J. Ferla/drilling	3/24/87	265 "	LT 3 "
Inside backhoe cab	"	249 "	LT 3 "
J. Patino/starting columns	3/30/87	205 "	LT 2 "
M. Carrasco/scraping	"	207 "	LT 2 "
F. Sever/starting columns	"	204 "	LT 2 "

Comments on Results: lead concentrations are expressed in ug/cu. meter, indicating "microgram per cubic meter". There are one million micrograms in one gram, and 454 grams in one pound, so one microgram is 1/454 millionth of a pound. The "LT" preceding the number is an abbreviation for "Less Than". Taken as a whole, "LT 2 ug/cu. meter" means that if any lead was present in the air sampled, the concentration was less than 2 micrograms per cubic meter of air.

As you can see above, lead was detected in none of the samples, with lower limits of detection ranging from 2 to 7 micrograms of lead per cubic meter of air sampled. The Permissible Exposure Limit for lead, established by Cal/OSHA as an average airborne concentration to which nearly all workers can be exposed 8 hours per day, 40 hours per week, without risk to health, is 50 micrograms per cubic meter.

In conclusion, it appears from the above sampling results that airborne lead does not pose a significant health risk at the Bayside site.

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To: Marc Papineau

From: Greg Raymond

Date: April 22, 1987

Subject: Site Visit Report - Baycenter - 3/17/87

Air monitoring for lead. Collected 5 samples; 4 personal, 1 area. Additionally, used GasTector to test for combustible gas in piling holes. All holes tested. No measureable levels of combustible gas were detected.

Talked with workers about potential hazards of lead exposure. Hygiene currently less than satisfactory. Encouraged workers to wash hands before eating, to change clothes frequently, to not bring soiled clothing into homes, and to not smoke on site.

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To: Marc Papineau

From: Greg Raymond

Date: April 22, 1987

Subject: Site Visit Report - Baycenter - 3/23/87

Air monitoring for lead; 4 area samples collected, one at each corner of site. Tested newly drilled, and selected other, holes for the presence of combustible gases without positive response on the GasTector.

Talked with site workers at safety meeting. Distributed HESIS Fact Sheet #4, "Lead". Answered a variety of questions about the effects of lead exposure, what's known about lead levels on site, and what other potential exposures may exist, as based on past analysis of soil.

Workers spray concrete columns with EDOCO 1007 Resin Clear, a material of unestablished composition, but with a noticeable hydrocarbon odor. Requested MSDS from distributor.

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To: Marc Papineau

From: Greg Raymond

Date: April 22, 1987

Subject: Site Visit Report - Baycenter - 3/24/87

Air monitoring for lead; 2 personal samples and one area sample.
Tested for the presence of combustible gases in newly drilled
holes. None detected.

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To: Marc Papineau

From: Greg Raymond

Date: April 22, 1987

Subject: Site Visit Report - Baycenter - 3/30/87

Air monitoring for lead; 3 personal samples collected. Because two of the samples appeared to be unusually loaded with material, they were sent by overnight mail to the laboratory for rush analysis.

While cleaning foundation footing yesterday afternoon, a backhoe uncovered and disrupted a length of conduit, from which an oily liquid spilled. This material formed a layer over the several inch deep pool of ground water already present in the hole. A sample was collected using an acid washed mason jar with Teflon interfaced lid (obtained from DOHS). The sample was submitted to Brown and Caldwell for rush PCB analysis.

Received MSDS for EDOCO 1007 Resin Clear. Made photocopy for Dave Guidry. Recommended that appropriate respiratory protection be made available to workers (respirators with organic vapor cartridges).

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To: Marc Papineau

From: Greg Raymond

Date: April 22, 1987

Subject: Site Visit Report - Baycenter - 4/01/87

Air monitoring for lead; 4 personal samples.

When driving a pile in the northeast section of the site, what appears to be gasoline was forced to the surface. After the pile driving rig moved on, a pool of material 2 feet in diameter and 2-3 inches deep remained around the piling. Counseled site supervisor and foreman to prohibit any activity in the area which might generate a spark.

Analysis of soil sample submitted yesterday indicates a concentration of 18 ug/L of Aroclor 1260, and concentrations of less than 10 ug/L for each of seven other Aroclor species. Visited DOHS Hazardous Materials Lab and discussed the significance of the finding. Concensus was that present level (in water) is below level of regulatory concern. However, when water evaporates, the residual PCB level in soil may be in excess of guidelines for soil. Consequently, two reasonable options exist: remove material now by vacuum, or test soil levels after evaporation and then act on findings. I recommended the former.

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To: Marc Papineau

From: Greg Raymond

Date: April 22, 1987

Subject: Site Visit Report - Baycenter - 4/03/87

Informed site supervisor and foreman, and workers who wore sampling apparatus, of results for samples submitted for rush analysis. (Lead was not detected in any of the samples, with detection limits well below the Cal/OSHA PEL.)

Marc Papineau asked me to talk with Bob Russy, supervisor of the office construction site. Bob has also been involved in pre-construction activities at another, nearby, site called Eastshore. Yesterday at Eastshore they excavated an area and released volatiles which they found to be nauseating. The area was subsequently covered-up. Bob was not interested in re-excavating the area so that I might assess the nature of the hazard present.

Concerning gasoline-contaminated foundation footing, liquid has evaporated.

Arranged through Marc Papineau and site supervisor (Dave Guidry) to have PCB-contaminated footing pumped out. Later in the day returned to find that, since drill operator had not been informed, he drilled pile guide holes in the footing. This resulted in a fairly thorough mixing of the liquid into the soil. No residual liquid remains.

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To: Marc Papineau

From: Greg Raymond

Date: April 22, 1987

Subject: Site Visit Report - Baycenter - 4/06/87

Soil sample collected from footing with previous positive PCB results. Placed in glass, Teflon-line container obtained from Brown and Caldwell and submitted for analysis.

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To: Marc Papineau

From: Greg Raymond

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Subject: Site Visit Report - Baycenter - 4/07/87

No significant occurrences.

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To: Marc Papineau

From: Greg Raymond

Date: April 22, 1987

Subject: Site Visit Report - Baycenter - 4/08/87

Air monitoring for lead; area samples along eastern perimeter of site on moderately windy day with considerable on-site vehicular activity.

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To: Marc Papineau

From: Greg Raymond

Date: April 22, 1987

Subject: Site Visit Report - Baycenter - 4/09/87

Air monitoring for lead; 3 personal samples.

Talked with Tony (site foreman) about replacing hose attached to sink, thereby enabling workers to once again wash their hands before eating or smoking. He sent someone to purchase a hose; it was in place by noontime.

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To: Marc Papineau

From: Greg Raymond

Date: April 22, 1987

Subject: Site Visit Report - Baycenter - 4/13/87

On site to attend safety meeting. Meeting cancelled.

Checked with Brown and Caldwell. Soil analysis for PCB not yet completed.

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To: Marc Papineau

From: Greg Raymond

Date: April 22, 1987

Subject: Site Visit Report - Baycenter - 4/14/87

Call from Devcon to M. Papineau in A.M. New excavation at Eastshore has led to the bulldozer operator being taken to an emergency medical treatment facility, complaining of nausea, dizziness, etc. Visit to site found two areas of apparent contamination on southern end of site:

The area in which the bulldozer was moving earth - soil is dark and odorous. Odor is mildly noticeable throughout area, and is distinctly noticeable when closely examining soil.

A pool of water approximately 15 feet in diameter - a surface layer of oily material is present.

A sample of each was collected, using glass bottles with Teflon liners supplied by Brown and Caldwell. The samples were submitted to B&C for rush analysis (hydrocarbon scan focusing on fuels).

Concerning Baycenter site:

PCB analysis of soil from foundation footing failed to detect 8 PCB species, with detection limits of 0.3 mg/kg.

Talked at site safety meeting. Distributed report summarizing air monitoring results to date (lead non-detected in all samples). Repeated admonitions concerning general hygiene and smoking. Answered related questions.

Addendum: 4/15/87 - analysis of samples submitted yesterday indicate water sample contained diesel fuel (3200 mg/L) and soil sample contained gasoline/diesel mixture (5400 mg/kg).