Page 1 SUPERIOR COURT IN THE STATE OF CALIFORNIA 1 2 FOR THE COUNTY OF SAN FRANCISCO 3 UNLIMITED JURISDICTION 4 -000-5 ELIEZER WILLIAMS, a minor, by ) SWEETIE WILLIAMS, his guardian ad ) litem, et al., each individually 6 ) and on behalf of all others ) 7 similarly situated, 8 Plaintiff(s), 9 ) No. 312236 vs. 10 STATE OF CALIFORNIA, DELAINE EASTIN) STATE SUPERINTENDENT OF PUBLIC ) 11 INSTRUCTION, STATE DEPARTMENT OF ) EDUCATION, STATE BOARD OF ) 12 EDUCATION, Defendant(s). 13 14 15 -000-16 DEPOSITION OF MEGAN T. SANDEL, M.D. 17 VOLUME I 18 San Francisco, California January 28, 2003 19 20 -000-21 ATKINSON-BAKER, INC. COURT REPORTERS 330 North Brand Boulevard, Suite 250 22 Glendale, California 91203 23 (818) 551-7300 24 REPORTED BY: Cindy Pickens, CSR No. 3262 25 FILE NO.: 9D00BD3

6 1 Dep 7 2 Add 8 Expe 9 3 Decl 10	TS escription onent's C.V. itional Materials Provided to rt Megan Sandel	114	1       MEGAN T. SANDE         2       called as a witness herein,         3       first duly administered t         4       testified as follows:         -OO-       6         APPEARANCES:       7         For the Plaintiff(s):       8         ACLU FOUNDATION OF S       By: Peter J. Eliasberg         9       1616 Beverly Boulevard         Los Angeles, California 9002       (213) 977-9500         10       for the Defendants Delaine Ea         Education and the State Depart       Education and the State Depart         13       Department of Justice         Office of the Attorney General       By: Anthony V. Seferian         Deputy Attorney General       15         15       1300 I Street, Suite 1101         Sacramento, California 94244       (916) 445-8227         17       For the Intervenor Los Angeles         District:       By:         18       PILLSBURY WINTHROP Li         19       By: John S. Poulos         400 Capitol Mall, Suite 1700         20       Sacramento, California 95814         (916) 329-4700         21       For the Intervenor California 5814         (916) 442-2952       Sacramento, California 95814	having been he oath, OUTHERN CALIFORNIA 6-5752 stin, State Board of ment of Education: d I-2550 s Unified School LP I-4419 chool Board: HAGEL & FISHBURN LLP
2       FOR         3       UN         4       5         5       ELIEZER W SWEETIE V         6       litem, et al., and on behal         7       similarly situ         8       PI         9       vs.         10       STATE OF STATE SUP         11       INSTRUCT EDUCATIO         12       EDUCATIO         13       D         14	) laintiff(s), ) ) No. 312236 ) CALIFORNIA, DELAINE EASTII PERINTENDENT OF PUBLIC ) ION, STATE DEPARTMENT OF NN, STATE BOARD OF )	SCO N) ) 003 was taken in se of fices at f 9:30	2 EX 3 BY MR. SEFERI 4 Q. Would you 5 A. My name 6 Q. How do you 7 A. M-E-G-A- 8 Q. Dr. Sandel 9 represent the Calif 10 Instruction, Califi 11 the California Bou 12 versus California 13 A. Mm-hmm. 14 Q. Have you 15 witness? 16 A. This is my 17 deposition in a cou- 18 legislatures for la 19 Q. Have you 20 you were qualified 21 subject? 22 A. I've not tess 23 I've testified in fat	a please state your name. is Dr. Megan Sandel. ou spell that? N, and then Sandel, S-A-N-D-E-L. I, my name is Tony Seferian. I ifornia Superintendent of Public fornia Department of Education, and hard of Education in the Williams lawsuit. ever qualified in court as an expert of first time testifying in a purt case. I've testified before two. ever testified in a court case where ed as an expert witness in any stified as a an expert witness. mily court around where cases atrician and I'm asked about my

Page 6		Page 8
Q. How many times have you testified in family	1	MR. ELIASBERG: Objection. Vague. You mean
court?	2	any legislature, or a specific one?
A. I'm not sure the exact number. My estimate	3	BY MR. SEFERIAN:
would be three or four times.	4	Q. How many times have you testified before any
Q. What were the circumstances under which you	5	state legislature or other legislative body?
testified in a family court?	6	A. I've testified in front of both the state and
A. In the state of Massachusetts, the child	7	senate. I'm not sure I remember the exact committee
protection agency is called the Department of Social	8	on different legislation regarding housing conditions
Services. These were cases where the Department of	9	and children's health. I've also testified in front
Social Services was seeking custody of a child that I	10	of the Boston City Council about indoor environment
was the pediatrician of. The judge was asking my	11	conditions in children's health.
opinion about whether the child should be removed from	12	Q. Were all those legislative bodies that you
the mother's care.	12	testified before in Massachusetts?
Q. So the three to four times that you testified	14	A. Yes.
in court, it was a family court in Massachusetts	15	Q. You testified before the before a State
related to child custody issues.	16	Senate committee in Massachusetts.
Is that correct?	17	Is that correct?
A. Yes. That is correct.	18	A. That was one of the committees. There was
Q. Have you ever qualified in court as an expert	19	also a House committee. It was regarding specific
witness regarding anything to do with the relationship	20	legislation.
between school-facility conditions and student-health	$\frac{-0}{21}$	Q. You also testified before the House committee
issues?	22	in Massachusetts.
A. No. This is my first time.	23	Is that correct?
Q. When you testified in family court, were you	24	A. Yes.
testifying as to your observation of the of	25	Q. How many times have you testified before the
	1	

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1	children who were patients of yours?	1	State Senate committee in Massachusetts?
2	MR. ELIASBERG: Objection. Vague.	2	A. I can think of at least two instances. There
3	I'm sorry. You can answer.	3	may be others.
4	THE WITNESS: I can answer?	4	Q. Do you recall the specific topics of your
5	MR. ELIASBERG: Yeah. I'm just making an	5	testimony before the Massachusetts State Senate
6	objection.	6	committee on the two occasions you testified there?
7	THE WITNESS: The the nature was to the	7	MR. ELIASBERG: Objection. Misstates her
8	my observations of the care of the child. This was	8	prior testimony.
9	also a family that I had visited while they were	9	THE WITNESS: The the two examples that I
10	homeless and then also in their when they became	10	can recall there may be others is one that was
11	housed.	11	legislation trying to encourage the Attorney General's
12	BY MR. SEFERIAN:	12	Office of the State of Massachusetts to sue the
13	Q. When you testified in family court, did that	13	lead-paint industry over the ill effects of lead
14	involve one family on those different occasions, or	14	exposure in children.
15	did you testify three to four times regarding	15	The second instance that I recall is a law
16	different families?	16	that was to protect tenants who were living in
17	MR. ELIASBERG: Objection. Ambiguous.	17	unsanitary conditions to be able to withhold rent
18	You can answer.	18	until those sanitary conditions were fixed, without
19	THE WITNESS: The I did testify regarding	19	having problems with evictions in court.
20	one family three to four times. I may have testified	20	I may be oversimplifying those laws, but that
21	about other families, but that's the family that	21	was the general my recollection general
22	stands out in my mind.	22	recollection of what those laws were stating.
23	BY MR. SEFERIAN:	23	BY MR. SEFERIAN:
24	Q. How many times have you testified before the	24	Q. At the time you recall you testified before
25	legislature?	25	the Massachusetts State Senate, were you testifying in

	Page 10		Page 12
1	regard to specific legislation?	1	my first time serving as an expert witness.
2	A. I was testifying in support of specific	2	BY MR. SEFERIAN:
3	legislation. I should be clear that some of those	3	Q. And that includes as an expert witness in
4	committees were combined House-Senate committees, so	4	court, correct?
5	that saying that they were just State Senate	5	A. An expert witness in court. I have served as
6	committees may not be 100 percent accurate.	6	expert witness in, obviously, other legislative
7	Q. Do you recall the dates of your testimony	7	bodies, but this is my first time as an expert witness
8	before the Massachusetts State committees?	8	in a litigative case.
9	A. I don't recall the exact dates. The the	9	Q. Before this case, had you ever been asked to
10	legislation on the it was called the Rent Escrow	10	serve as an expert by any law firm or attorney?
11	Bill which would allow people to withhold rent if they	11	A. No, not that I recall.
12	had unsanitary conditions in their home. I believe it	12	Q. Before this case, had you ever prepared a
13	was March or April of 2000, and I don't recall when	13	report similar to the one that you prepared for this
14	the the lead-liability legislation was.	14	case?
15	Q. Have you testified before any other	15	A. This is my first time preparing a an
16	legislative bodies, other than the Massachusetts State	16	expert report. I have prepared other reports
17	committee that you just mentioned?	17	describing the ill effects of indoor environmental
18	MR. ELIASBERG: Asked and answered.	18	conditions on children, and children's health.
19	THE WITNESS: I mentioned the Boston City	19	Q. Do you have any estimate of how many reports
20	Council, that I had also testified before. Those are	20	you have prepared regarding indoor environmental
21	the the three that I recall. There may be others.	21	conditions and their effects on children and
22	BY MR. SEFERIAN:	22	children's health?
23	Q. How many times did you testify before the	23	A. I'd have to refer back to my C.V. I have
24	Boston City Council?	24	written extensively on the issue both in reports, in
25	A. There is one time that I recall testifying.	25	peer review journals, and given presentations

1

Q. What was the topic of your testimony before 1 2 the Boston City Council?

3 A. My topic was on a law looking to help cap

- 4 rent increases, and it was discussing the
- 5 ramifications of families needing to choose between

large rent and living in unsanitary conditions, or 6

- 7 children suffering other health problems as a result
- 8 of spending too much on rent -- such as hunger.
- 9 Q. Have you ever testified before any
- legislative body regarding school-facility conditions 10
- and children's-health issues? 11
- 12 A. I've not testified on those subjects.

13 Q. Have you ever qualified in court as an expert 14 witness on public health issues?

- MR. ELIASBERG: Objection. Vague. Asked and 15 16 answered.
- THE WITNESS: I have testified in court, as I 17
- 18 mentioned previously. This is my first time serving
- as an expert witness in a case. 19
- 20 BY MR. SEFERIAN:
- 21 O. Would it be correct to say that you have
- 22 never qualified in court as an expert witness on
- 23 public health issues?
- 24 MR. ELIASBERG: Asked and answered.
- 25 THE WITNESS: I will reiterate that this is

- Page 13
- 2 Q. When you say you prepared other reports
- 3 regarding indoor environmental conditions and
- 4 children's health, can you describe generally what
- 5 types of reports those were?

nationally on the subject.

MR. ELIASBERG: Vague and over broad, but you 6 7 can answer.

- 8 THE WITNESS: Some of the reports were
- 9 generally-released reports that were made available on
- 10 a website that were reviewed by selected peers that
- described the different diseases that children can 11
- suffer or that can be made worse as a result of indoor 12
- 13 environmental conditions.
- 14 Some were journal articles that were
- 15 submitted and peer-reviewed to journals. Again, I'll
- refer you to my C.V. where many of them are listed. 16 17
  - And then I have done many presentations,
- 18 either poster presentations or slide show
- 19 presentations, to academic meetings or to government
- meetings that describe different topics ranging from 20
- 21 asthma and the environment to lead exposure in the
- 22 environment, childhood injuries, or other
- 23 environmental hazards and how they affect children's
- 24 health.
- 25 BY MR. SEFERIAN:

	Page 14		Page 16
1	Q. Have you ever prepared any reports regarding	1	children's-health issues?
2	indoor environmental conditions in public schools and	2	A. I don't recall in any publication discussing
3	their relation to children's health?	3	specific schools or school conditions. I have
4	A. Most of the reports that I have generated	4	participated in presentations where such things have
5	have focused on conditions that can exist both in	5	been discussed, but they have not been published in
6	homes or in schools or in day cares; basically, within	6	publications where I am an author.
7	the indoor environment.	7	Q. Would you agree that most of your academic
8	I have not written a specific report that	8	research has been focused around housing conditions?
9	addressed just schools, but many of my reports address	9	A. I would characterize that I have studied how
10	the conditions that can be found in any indoor	10	specific conditions can affect children's health, and
11	environment.	11	that most of my research has been looking at the
12	Q. Have you ever written a report that	12	effects of those conditions as they are experienced
13	addressed, specifically, indoor environmental	13	through housing and how to improve them through
14	conditions in public schools?	14	housing.
15	MR. ELIASBERG: Asked and answered.	15	I would also add that some of my academic
16	THE WITNESS: I'd have to say, again, that	16	involvement in other societies or other organizations
17	the reports that I have written have discussed the	17	has included discussing these conditions as they
18	effects of specific conditions. Much of my academic	18	relate to other indoor environments, including
19	research has been doing experiments around housing	19	schools.
20	conditions, but as many of my citations in my expert	20	Q. What other academic involvement were you
21	report will attest, the conditions that are found in	21	referring to in that last answer, wherein you
22	homes that are detrimental to children's health are	22	discussed how those conditions relate to other indoor
23	the same conditions that can be found in schools.	23	environments, including schools?
24	MR. POULOS: I'm going to object and move to	24	A. There's an entity in New England states,
25		25	
25	strike on the basis that the response is not	25	called The Asthma Regional Council, that I refer to in
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25	-	25	
25	Page 15	25	Page 17
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- 22 Q. As you sit here today, do you recall any
- 23 publication that you've authored where you have
- 24 discussed indoor environmental conditions in any
- 25 specific schools and how those conditions relate to

- the educational materials that we had also developed 22
- 23 on our Healthy Homes Committee -- on that same
- 24 entity -- to try and assist building maintenance and
- 25 other educational personnel and how to help their

1			
	Page 18		Page 20
1	schools be healthier.	1	to address indoor environmental conditions?
2	Q. Do you have any involvement with the Healthy	2	A. I had participated in some of the the
3	Schools Committee, other than participating in these	3	drafting. It was more of a compilation of many
4	conference calls?	4	different people who participated on the Healthy
5	A. That's the extent of my possible involvement,	5	Schools Committee.
6	so I I'm as fully involved as I can be in the	6	Q. Would you describe your involvement with the
7	committee.	7	Boston Urban Asthma Committee?
		8	A. The Boston Urban Asthma Coalition has
8	Q. Does the Healthy Schools Committee have any	~	
9	type of positions in executive director or	9	multiple committees that are addressing different
10	president?	10	areas of the asthma crisis in Boston. One of them is
11	A. The well, at the last meeting I was asked	11	the Healthy Schools Committee, and I've discussed and
12	to be a co-chair on the committee. Unfortunately, I	12	participated in that committee with the chair of that
13	was too busy to be that, but the chair of the	13	committee who's name is Tolle Graham.
14	committee's name is Michael Kucsma from the state of	14	Q. Which committee was that?
15	Maine.	15	A. Its name is the Healthy Schools Committee. I
16	Q. How do you spell that?	16	participated on other committees in the Boston Urban
17	A. K-U-C-S-M-A.	17	Asthma Coalition, but that's one of the committees.
18	Q. Has the Healthy Schools Committee drafted any	18	Q. Do you attend meetings for the Healthy
19	guidelines for schools to address indoor environmental	19	Schools Committee in the Boston Urban Asthma
20	problems?	20	Coalition?
21	A. Yes. They've produced a multi-page	21	A. I have attended meetings. They have not met
22	document I'm not sure exactly how long it is	22	recently.
23	trying to help school professionals to address their	23	Q. How often have you attended meetings for the
24	environmental hazards when they arise.	24	Healthy Schools Committee in the Boston Urban Asthma
25	Q. What is the name of that document?	25	Coalition?

1	A. I'm not sure. I think that it's I'm not	1	A. I'm not sure I can recall the exact number.
2	sure of the exact title, to be honest with you.	2	I have attended multiple meetings. I'm not sure I can
3	Q. Have you seen the document?	3	remember exactly how many.
4	A. Yes.	4	Q. What topics have you discussed on the Healthy
5	Q. Has the document been published?	5	Schools Committee?
6	A. I think that it's available on the website of	6	A. We discussed some of the indoor conditions
7	the actually I should I'm not sure. It may	7	that can be associated with poor child health, such as
8	be it's been drafted, so I'm not sure whether it's	8	worry intrusion and potential for mold growth, pest
9	up on the website yet. I think it will be soon. It's	9	infestation, and ways to address preconditions to pest
10	a was a first draft done by the staff of the	10	infestation. Many of the guidelines that they have
11	committee.	11	used have been from the Environmental Protection
12	Q. Which website are you referring to?	12	Agency's Tools For Schools materials.
13	A. It's www.asthmaregionalcouncil.org, all one	13	Q. Has the Healthy Schools Committee of the
14	word.	14	Boston Urban Asthma Coalition drafted any of its own
15	Q. Did you rely on those guidelines that were	15	guidelines regarding school conditions?
16	drafted by The Asthma Regional Council in forming any	16	MR. ELIASBERG: Objection. Vague.
17	of the opinions that you've expressed in this case or	17	THE WITNESS: I'm not aware of any specific
18	that you will express in this case?	18	materials. There is a larger network called the
19	A. I had written the report before those	19	Healthy Schools Network, in Massachusetts. And I'm
20	guidelines were drafted. So, no. I I tended to	20	not sure whether or not they have drafted materials.
21	rely on other sources for my expert report.	21	The Boston Urban Asthma Coalition participates in that
22	Q. When were those guidelines drafted?	22	network.
23	A. Just in the last few months.	23	BY MR. SEFERIAN:
24	Q. Were you involved in the drafting of The	24	Q. What are the different groups or individuals
25	Asthma Regional Council guidelines regarding schools	25	that make up the Boston Urban Asthma Coalition?

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<ol> <li>A. My memory was the last estimate was over</li> <li>200 committee-based organizations, parents,</li> <li>physicians, nurses, and governmental agencies in</li> <li>trying to address asthma in the city of Boston.</li> <li>Q. What organizations or individuals make up the</li> <li>Healthy Schools Network in Massachusetts?</li> <li>A. I am not as familiar with that organization.</li> <li>Q. Are you a member of the Healthy Schools</li> <li>Network in Massachusetts?</li> <li>MR. ELIASBERG: Objection. Assumes facts.</li> <li>MR. ELIASBERG: Objection. Assumes facts.</li> </ol>	Page 24
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10 MD ELIASDERC: Objection Assumes fasts 10 O Have you performed any public health work in	
10 WIK. ELIASDERG. Objection. Assumes facts. 10 Q. have you performed any public heatin work in	k in
11 THE WITNESS: No. I'm not a member of the 11 any school, or Massachusetts?	
12 Healthy Schools Network. 12 MR. ELIASBERG: Objection. Vague.	
13 BY MR. SEFERIAN: 13 THE WITNESS: I have been more involved in	in
14 Q. Have you ever inspected any public schools in 14 schools in Massachusetts around individual patients of	s of
15 California? 15 mine than I have done public health as I defined it	
16 A. No, I've never never been in the 16 earlier as more population health.	
17 California public schools. 17 BY MR. SEFERIAN:	
18 Q. Have you ever done any public health work in 18 Q. Have you done any public health work, as	
19 California? 19 you've defined "public health," in any school in	
20 MR. ELIASBERG: Objection. Vague. 20 Massachusetts?	
21 THE WITNESS: I'm not sure exactly what you 21 MR. ELIASBERG: Objection. Vague. And ask	asked
22 mean by "public health." What I can say is, I've done 22 and answered.	
23 legislative training in California at academic 23 THE WITNESS: I would say that my involveme	ement
24 meetings. 24 in committees such as the Healthy Schools Committee	
25 BY MR. SEFERIAN: 25 the Boston Urban Asthma Coalition or participation in	n in
Page 23 Page	Page 25
1 Q. Do you have a definition of public health? 1 the Healthy Schools Committee of The Asthma Region	gional
2 A. My definition of public health would include 2 Council may have some indirect involvement in school	
3 studying conditions that affect the health of 3 within Massachusetts.	
4 populations. It would include academic research in 4 I have not personally done academic work	

- those areas, and it would include policy changes to 5
- 6 try and address the health of populations.
- 7 Q. Based upon your definition of public health, 8 would you say that you have done any public health 9 work in California?

10 A. I think I have done some lectureship in academic research in California. 11

Q. What work would that be? 12

17

13 A. One of the national meetings for the Agency For Health Care Quality Research was held in Los 14 Angeles, where I did a poster presentation, is one 15 16 example.

Q. What was the name of the organization?

18 A. It's called -- AHRQ is the -- the name of the agency. A-H-R-Q. Let's see. Agency for Healthcare, 19 20 Research and Quality.

21 Q. Have you done any other public health work in 22 California, in addition to the poster presentation you 23 did for the AHRO? 24 A. I think that's it. I -- there may be others, 25 but --

- within schools or directly done policy work within 5
- schools, but, as I mentioned, I have done individual 6
- 7 advocacy work within schools.
- 8 BY MR. SEFERIAN:
- Q. Have you ever studied any indoor 9
- 10 environmental conditions in any school in
- Massachusetts? 11
- 12 A. I believe I answered that. I've not done
- 13 academic work in schools. I have participated in
- press conferences at schools for different public 14
- 15 health initiatives such as the EPA's Children's First
- Campaign, to try and improve the indoor air quality of 16
- schools. That specific school, the Lucy Blackstone, 17
- 18 is right near the hospital I work at. That will be
- 19 the type of activities that I've participated in.
- 20 Q. Would it be correct to say that you have not
- 21 specifically studied indoor environmental conditions
- 22 in any public school in Massachusetts?
- 23 A. The way that I would characterize it would be
- 24 that I have studied many conditions that I know to be
- 25 present in both homes and schools, that most of my

Page	28
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Page 26	Page 28
<ul> <li>published research has been about these conditions</li> <li>being found in homes. But I know from both personal</li> <li>experience as a pediatrician and from many discussions</li> <li>with school nurses or school teachers or other</li> <li>occupational health experts that these same conditions</li> <li>are present in schools.</li> <li>MR. POULOS: I'm going to object and move to</li> <li>strike on the grounds that the answer was not</li> <li>responsive to the question.</li> <li>MR. ELIASBERG: It's perfectly responsive.</li> <li>BY MR. SEFERIAN:</li> <li>Q. Have you ever gone to any public school in</li> <li>Massachusetts, as a public health official, and</li> <li>documented the presence of any indoor environmental</li> <li>conditions that relate to children's health?</li> <li>MR. ELIASBERG: Objection. Vague as to</li> <li>"public health official."</li> <li>THE WITNESS: Can you be more specific as to</li> <li>what "public health official" means?</li> <li>BY MR. SEFERIAN:</li> <li>Q. Do you consider yourself to be a public</li> <li>health official?</li> <li>A. As a pediatrician, I treat both individual</li> <li>patients and populations of patients. So I have had</li> <li>contact with schools about my patients and their</li> </ul>	<ul> <li>officials or, I should say, higher-up officials, if</li> <li>you will, such as principals or superintendents.</li> <li>I have spoken with the pediatrician who's on</li> <li>the Boston School Committee at times about conditions,</li> <li>but aside from nurses and an occasional personal</li> <li>communication with a teacher.</li> <li>MR. ELIASBERG: It's been about an hour. Is</li> <li>this a good time, or have you got a few more</li> <li>questions?</li> <li>MR. SEFERIAN: That's fine.</li> <li>MR. ELIASBERG: Okay. Let's take a</li> <li>five-minute break.</li> <li>(Recess.)</li> <li>BY MR. SEFERIAN:</li> <li>Q. Dr. Sandel, during the break that we just</li> <li>took did you have any discussion with Mr. Eliasberg</li> <li>about this deposition or this case?</li> <li>A. We were discussing how how it went, the</li> <li>types of questions that you were asking, and how we</li> <li>thought I did.</li> <li>Q. What did you say in the discussion, and what</li> <li>did Mr. Eliasberg say?</li> <li>A. He thought that my credentials on the</li> <li>conditions in the schools were strong, and that I</li> <li>asked what the objection, "strike from the record"</li> </ul>
<ul> <li>Page 27</li> <li>specific problems.</li> <li>I am not a government official. I don't hold</li> <li>a post in either the Boston Public Health Commission</li> <li>or the Department of Public Health, so I cannot</li> <li>participate in that capacity as a public health</li> <li>official.</li> <li>BY MR. SEFERIAN:</li> <li>Q. Have you ever advised any school districts or</li> <li>schools about public health issues?</li> <li>A. When you say "schools," you mean schools of</li> <li>public health, or schools of or public schools</li> <li>public, like education schools?</li> <li>Q. Have you ever advised any public-education</li> <li>schools about student-health issues and their</li> <li>relationship between school facilities and children's</li> <li>health?</li> <li>A. I've spoken with school nurses in certain</li> <li>educational conferences or meetings about school</li> <li>facilities, and how they can be related to the health</li> <li>of children.</li> <li>Q. Other than your discussions with nurses, have</li> <li>you ever advised any public-education schools about</li> <li>issues around school facilities and how they related</li> <li>to children's health?</li> <li>A. I have not spoken, that I recall, with other</li> </ul>	<ul> <li>Page 29</li> <li>meant, I think were examples of what we talked about.</li> <li>Q. Did you have any other questions of Mr.</li> <li>Eliasberg?</li> <li>A. Not that I not that I recall. That was my</li> <li>main question.</li> <li>Q. Have you ever formally advised any school</li> <li>districts about the relationship between</li> <li>school-facility conditions and children's health?</li> <li>MR. ELIASBERG: Objection. Vague as to</li> <li>"formally advised."</li> <li>THE WITNESS: I have not been a paid</li> <li>consultant to any school to help them with indoor</li> <li>conditions and their effects on on children's</li> <li>health.</li> <li>(Recess.)</li> <li>BY MR. SEFERIAN:</li> <li>Q. Have you ever advised any state department of</li> <li>education on indoor environmental conditions in</li> <li>schools?</li> <li>A. No, I haven't been involved in state</li> <li>department of well, Massachusetts Department of</li> <li>Education officials.</li> <li>Q. Have you ever been involved at the state</li> <li>government level, generally, with advising the state</li> </ul>

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$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\end{array} $	<ul> <li>Page 30</li> <li>A. I have had discussions with the Assistant Commissioner For Environmental Health at the Department of Public Health in Massachusetts about some conditions in schools.</li> <li>Q. Who is that person?</li> <li>A. Her name is Suzanne Condon, C-O-N-D-O-N. I would describe them as informal discussions.</li> <li>Q. Have you ever formally advised any state government regarding indoor environmental conditions in public schools?</li> <li>A. I have not been a in my definition of formal, a paid consultant to discuss indoor conditions with Department of Public Health officials.</li> <li>Q. Have you ever performed any analysis or study of school-facility conditions in California?</li> <li>A. In my opinion, my expert report does review some of the conditions that have been found in California schools using sources as listed in the bibliography.</li> <li>Q. Other than the expert report that you</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Page 32 think one of them works for the Department of Environmental Protection, and I think another one works in another office in the Attorney General's Office. But I'm not 100 percent sure, to be honest with you. Q. Have you ever spoken with anyone who's knowledgeable about public health conditions in California about public school conditions in California? A. My brother is a former elementary schoolteacher and he and I have discussed some of the conditions that were in his elementary school. Q. Which school is that? A. Highland Elementary School in Oakland. Q. Is your brother still a teacher at Highland Elementary School? A. No. Q. Where is your brother a teacher now? MR. ELIASBERG: Objection. Assumes facts. THE WITNESS: He currently is not employed as
21 22	prepared for this case, William versus California, have you ever performed any analysis or study of	21 22	a teacher. BY MR. SEFERIAN:
23 24	school-facility conditions in California? A. No.	23 24	Q. Other than your brother, have you ever spoken with anyone who is knowledgeable about public health
25	Q. Have you ever performed any study or analysis	25	conditions in California about public school-facility
	Page 31		Page 33
1 2 3 4 5 6 7	<ul><li>comparing the physical condition of school facilities in California as it relates to children's-health issues with the conditions in any other states?</li><li>A. Aside from the expert report, no.</li><li>Q. Do you have any opinion about whether indoor environmental conditions in public schools in California are better or worse than in other states?</li></ul>	1 2 3 4 5 6 7	<ul> <li>conditions in California?</li> <li>A. I don't believe that I've spoken with any governmental or school-associated personnel within California about public health conditions in schools.</li> <li>Q. Other than the report you prepared for this case, have you ever expressed in writing the opinion that school-facility conditions affect student's</li> </ul>

A. In my opinion, California has many of the same problems that are found in other -- in other

9 states. It would be hard for me to characterize 10

whether they're better or worse. 11

8

Q. Are you familiar with any of the public 12 13 health officials in California? 14

- A. Can you define, "public officials?"
- 15 Q. Do you know anyone who's involved in the
- public health field, generally, in California? 16
- A. I have colleagues that work in different 17
- 18 areas of California and Los Angeles, San Francisco
- that I know through both my medical-academic and 19 20 public health work.
- Q. Do you know any public health officials who 21 work for the State of California or any local 22 23 government in California? A. My dad's cousins work for the Attorney 24
- 25 General's Office. I'm not sure in what entity. I

- that school-facility conditions affect student's 7
- 8 short-term and long-term health?
- 9 A. In one of the reports that I published, we
- did talk about school performance. I believe that it 10
- was related to disease and how diseases can affect 11
- school performance. In some of my lectures I have 12
- 13 talked about school conditions. I don't recall other 14 publications.
- 15 Q. Before this case do you ever recall -- I'll 16 withdraw that question.
- 17 Before this case, do you ever recall
- 18 expressing in writing the opinion that school-facility
- conditions affect students' short-term health and 19
- 20 long-term health?

21 MR. ELIASBERG: Objection. Asked and 22 answered. 23

- THE WITNESS: I think that, as I stated
- 24 before, I've lectured about -- about conditions and
- 25 their affect on children's short- and long-term

Page 34 health. And I mentioned one publication that I think 1 scientific journal any studies that discuss the 1 2 may discuss some of that. 2 relationship of school-facility conditions and the 3 BY MR. SEFERIAN: 3 manifestation of specific childhood illnesses? 4 Q. The report you mentioned where it was 4 A. Many of the articles that I've published have 5 discussing disease and its affect on school 5 talked about specific conditions and how those conditions are related to child health. Some of those 6 performance, what report was that? 6 7 A. I believe the name of it is. There's No Place 7 conditions have been described in the home setting. 8 Like Home. That should be in my C.V. 8 where in many ways there can be more prolific 9 Q. In the publication, There's No Place Like 9 evidence, but I'm -- I don't recall necessarily always Home, did you discuss the opinion that school-facility 10 10 citing articles to show support that there were these conditions affect students' short-term health and same conditions found in schools, though my contention 11 11 12 would be that the articles do discuss those same 12 long-term health? A. It's been a couple years since we wrote the 13 conditions and how those affect children's health. 13 O. Have you ever published any studies in any 14 publication. I'm not sure, without it in front of me, 14 that I can exactly quote what it says. I know we talk medical or scientific journal where you specifically 15 15 about school performance and how adverse conditions discussed the relationship of indoor environmental 16 16 can affect it, but I -- I can't recall whether we conditions in a school setting and the manifestation 17 17 talked specifically about school conditions or just 18 of childhood illnesses resulting from those 18 home conditions or both. 19 conditions? 19 20 Q. Before this case, do you ever recall 20 A. As I said before, I don't -- I've not 21 expressing in writing the opinion that, specifically, 21 published just a school-specific setting type of articles, but I've talked extensively about the 22 school-facility conditions affect students' short-term 22 23 conditions and how those conditions can affect 23 health and long-term health? A. I think that I had explained that the report 24 children. And my contention is those conditions are 24 25 that I published before this report that I just 25 the same whether they're found in the home or in the Page 35 Page 37 mentioned may have some of that or the lectures 1 1 school. that -- that I did previously may -- may have it. I 2 2 Q. Have you participated in any research 3 think that -- that answers the question that I think 3 projects that specifically studied or documented 4 you're asking again. 4 public school-facility conditions? 5 O. Have the lectures you've been -- I'll 5 A. No. 6 withdraw that. 6

7 Have the lectures you've given been

8 published?

19

9 A. Some are available on websites, not all.

10 Some have been poster presentations or others that may

be in abstract books from national meetings. 11

O. Where was There's No Place Like Home 12 13 published?

14 A. Here in California in San Francisco by an 15 advocacy group called Housing America.

- Q. Was your publication, There's No Place Like 16 Home, published in any type of medical or scientific 17 18 journals?
  - A. No, not that I recall.
- 20 Q. Have you ever published any articles in any
- 21 medical or scientific journals where you express the

opinion that school-facility conditions can affect 22

- 23 students' short term and long-term health?
- 24 A. Not in any medical journal, that I recall.
- Q. Have you ever published in any medical or 25

- Q. Have you participated in any research
- 7 projects or studies of school-facility illnesses in
- 8 California? 9

MR. ELIASBERG: Objection. Vague.

10 Ambiguous.

11

- THE WITNESS: I've not participated in
- research studies about school conditions in the state 12
- 13 of California.
- 14 BY MR. SEFERIAN:
- 15 Q. In the work that you've done for this case,
- have you documented any students becoming sick from 16
- molds in California Public Schools? 17
- 18 A. I have not conducted any research studies
- 19 into children getting sick from mold in California
- 20 Public Schools.
- 21 Q. Have you documented the presence of molds in 22 any California Public Schools?
- 23 A. My understanding of my expert report was that
- 24 I was to provide testimony as to what the health
- effects would be if such conditions existed, that my 25

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1	mandate was not to prove that such conditions existed,	1	their effects on children's health?
2	but to simply discuss the health effects if they were	2	A. I think that I consider myself one of the
3	present.	3	experts in how these conditions affect children's
4	Q. Have you documented the presence of molds in	4	health. I think that there are others that have
5	any California Public Schools?	5	studied these, especially in given disease areas such
6	MR. ELIASBERG: Objection. Vague as to	6	as asthma or lead or injuries.
7	"document."	7	I think that the effects on children's health
8	THE WITNESS: In the in my expert report,	8	is one area. The other area is occupational health
9	I have documented other research studies that have	9	and how these conditions may affect adult health.
10	found mold in California Public Schools.	10	Q. Are you aware of any public health experts
11	BY MR. SEFERIAN:	11	who specialize in issues regarding school health?
12	Q. You're referring to the studies or reports	12	MR. ELIASBERG: Objection. Vague.
13	that were provided to you to review for this case?	13	THE WITNESS: I'm sorry. Could you repeat
14	A. Some of the reports were reports that I have	14	the question?
15	or that I found. Some were reports that I requested.	15	THE COURT REPORTER: "QUESTION: Are you
16	Q. Do you have any opinions regarding the extent	16	aware of any public health experts who specialize in
17	of the presence of molds in any California Public	17	issues regarding school health?"
18	Schools?	18	THE WITNESS: Defining school health, some
19	A. From reading these other reports, in my	19	people would define it as the health of children,
20	opinion, there is mold present in many California	20	their breathing, their ability to run around or
21	Public Schools.	21	concentrate. Other people would define school health
22	Q. Can you be more specific than that?	22	as ability to learn.
23	A. In my opinion, mold being present in schools	23	I do think there are experts that understand
24	can be indicated by either visible mold or the smell	24	how conditions can affect children's ability to learn.
25	of mold, which would indicate mold within the walls.	25	I think there are other experts that help with

1	It may not be visible but it would be present. And	1	children's ability in other school performance.
2	that my impression is that the extent of the mold	2	I'm not aware of many experts that
3	varies between different public schools.	3	specifically look at unsanitary school conditions, as
4	Q. Are there public health experts who	4	I described in the report, and their effect on
5	specialize in school health issues?	5	children's health.
6	A. In my opinion, many of the experts in school	6	BY MR. SEFERIAN:
7	health focus on learning problems or children with	7	Q. In the report that you prepared for this
8	special needs or communication between health and	8	case, did you make any assessment of the relationship
9	school officials. I have not encountered many	9	between the conditions you describe in the report and
10	researchers who have studied, specifically, the	10	children's ability to learn?
11	effects of these conditions that I've described in my	11	A. In my opinion in the report, I discussed some
12	expert report and the effect on children's health.	12	of the diseases that would cause children to miss
13	MR. ELIASBERG: I'm sorry. Can you read that	13	school, one example being asthma. And it's estimated
14	last answer back, please.	14	that children miss 10,000,000 school days annually
15	THE COURT REPORTER: "ANSWER: In my opinion,	15	because of asthma.
16	many of the experts in school health focus on learning	16	Another example of things that would
17	problems or children with special needs or	17	interfere with children being able to attend school
18	communication between health and school officials. I	18	would be illnesses such as colds or other things that
19	have not encountered many researchers who have	19	can result from overcrowding or extreme temperatures.
20	studied, specifically, the effects of these conditions	20	In my opinion, it would make sense for
21	that I've described in my expert report and the effect	21	children's learning to be affected because of the
22	on children's health."	22	missed school days as a result of, for example, asthma
23	BY MR. SEFERIAN:	23	or other illnesses. That would be the extent of what
24	Q. Are you aware of any researchers who have	24	I would feel an expert in, around children's learning.
25	studied the conditions mentioned in your report and	25	Q. In this case, did you make any attempt to

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1	quantify the relationship between any of the	1	A. Not that I'm aware of.
2	conditions described in your report and the amount of	2	Q. I'd like to show you a document.
3	school days that public school children in California	3	(Exhibit 1 marked for identification.)
4	have missed?	4	BY MR. SEFERIAN:
5	A. I do not believe in the report I made an	5	Q. Do you recognize the document that's been
6	attempt to make such an estimate.	6	marked as Exhibit 1?
7	Q. In this case, did you make any attempt to	7	A. Yes.
8	assess how many school days California public school	8	Q. What is that document?
9	children miss due to asthma?	9	A. It's my C.V.
10	A. I don't believe that in the report I made	10	Q. Is the C.V. current, or are there any
11	such an estimate.	11	additions or changes that have occurred since the C.V.
12	Q. With regard to any of the school-facility	12	was prepared?
12	conditions that you mention in your report, did you	13	A. I think under Education I forgot to list my
14	make any attempt to quantify the relationship of how	13	appointment to assistant professor.
15	many school days were missed as a result of those	15	I did list it in the expert report, but I
16	conditions in California Public Schools?	16	forgot to list it on my C.V. My professional
17	MR. ELIASBERG: Asked and answered.	17	experience, I've been asked to be a member of the
18	THE WITNESS: Again, I don't think in the	18	Board of Alliance to End Childhood Lead Poisoning.
19	expert report I made estimates of how many missed	19	Under Selected Presentations, I was asked to give a
20	school days children would miss in California.	20	talk at the National Center For Environmental Health
21	BY MR. SEFERIAN:	21	at the CDC in November of 2002. The I believe some
22	Q. In this case, did you attempt to examine any	22	of the manuscripts and chapters-in-progress have
23	strategies to remediate substandard school-facility	23	been are published. Some of them are published.
24	conditions?	24	The number 3, Inner-City Asthma, was published in
25	A. My understanding of what the report was	25	November of 2002. The Failure to Thrive chapter, I
	Page 43		Page 45
1	asking me to do was to describe the health effects. I	1	believe, has been completed and is in publication,
2	did not understand it to be part of my expert report	2	though I haven't received the copies of it yet. And
3	to describe how to improve or remediate those	3	then the other two manuscripts are still in progress.
4	conditions.	4	That's the best of my recollection.
5	Q. Would it be correct to say that in this case	5	Q. When were you appointed to assistant
6	you did not attempt to examine any strategies to	6	professor?
7	remediate substandard school-facility conditions in	7	A. That was spring of 2002.
8	California?	8	Q. What institution was that?
9	A. Though the report does not specifically	9	A. Boston University School of Medicine.
10	address remediation strategies, I can think of at	10	Q. You're a member of the Board of the Alliance
11	least one instance where I describe that these	11	to End Child Lead Poisoning?
12	conditions lead to a lot of the substandard or	12	A. I was asked to be a member sometime in the
13	unsanitary conditions described in the report that	13	fall, either October or November, and then the board
14	could be solutions for remediation. But, again, that	14	met in December. I wasn't able to attend that
15	was not considered part of the scope of the report.	15	meeting, but my my appointment to the board was
16	Q. What was that instance that you just thought	16	approved.
17	of?	17	Q. What is that organization?
18	A. For instance, trash disposal in a in a	18	A. It's an advocacy organization that's based in
19	bathroom facility could encourage pest infestation.	19	Washington that basically, as the name states, is
20	So that the implication would be that removing the	20	trying to end childhood lead poisoning through both
21			
	trash in a timely manner would help with a given pest	21	advocacy within government, different agencies like
22 23	trash in a timely manner would help with a given pest problem. O In this case, will you be offering opinions	21 22 23	the HUD or EPA or CDC, as well as it funds its own research projects into or community-based programs

- 23 Q. In this case, will you be offering opinions
- 24 regarding strategies to remediate substandard
- school-facility conditions? 25

- 23 research projects into -- or community-based programs
- into trying to end childhood lead poisoning. Theyactually are contemplating a name change to the

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$\begin{array}{c}1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array}$	<ul> <li>Alliance For Healthy Homes, though I don't believe that that's official yet.</li> <li>Q. What's your role with the National Center For Environmental Health?</li> <li>A. I had met the director there, Dick Jackson, at multiple meetings where I had given presentations and he asked me to come down to the the National Center to give a grand rounds.</li> <li>Q. Are you a member of any committees or boards or do you hold any positions in the National Center For Environmental Health?</li> <li>A. No.</li> <li>Q. Who published Inner-City Asthma?</li> <li>A. It was the Immunology and Allergy Clinics of North America. It was a book with multiple manuscripts, and Inner-City, I believe, was the first chapter.</li> <li>Q. What's the name of the publication?</li> <li>A. I think that's literally the name, Immunology and Allergy Clinics of North America. It's not a monthly publication. I think they come out either annually or biannually.</li> <li>Q. Do any of the publications listed in your manuscripts, Chapters in Progress on your C.V., relate to indoor environmental conditions in public schools?</li> </ul>	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	<ul> <li>Q. Looking at the second page of your C.V., under the Publications section.</li> <li>Other than the item number 3, There's No Place Like Home, do you see any other publications there wherein you discuss indoor environmental conditions in public schools?</li> <li>A. No.</li> <li>Q. In the Selected Presentations portion of your C.V., in any of the presentations listed there, did you specifically discuss indoor environmental conditions in schools?</li> <li>A. Besides the one that I said I'd forgotten to list on there, no. I don't think so.</li> <li>The one thing that I'll say is that again, the top two presentations, the child advocacy seminar and the day in the life of a child, those were panels that I was on of which we were discussing health conditions for kids. And, again, it was four or five years ago, but my memory is that some of that did include some schools. But, again, that was a panel presentation.</li> <li>Q. What is the Merriman Award?</li> <li>A. It's an award within Davenport College, which is one of the residential colleges at Yale University. It is an award for outstanding service.</li> </ul>
	Page 47		Page 49
1 2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>A. The one that I had mentioned before, the I think it's number 3 on my publications is that There's No Place Like Home, was one I had mentioned previously that had a chapter on schools. Under Selected Presentations it looks like I did not list a presentation that I gave in in I believe it was May 2002 on called In Harm's Way, which was sponsored by the Greater Boston Chapter For Physicians For Social Responsibility. I don't remember the panel topic, but schools was one of the topics on the panel. Those are the two examples I can see.</li> <li>Q. What was the topic of your presentation for</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12 13	<ul> <li>Q. How did you obtain that award?</li> <li>A. It's awarded by the master of the residential college, which is the professor who lives within the residential college, and is nominated by fellow students.</li> <li>Q. What is the Merck Award?</li> <li>A. The Merck Award was for if my memory serves me, was for, again, outstanding service within the Dartmouth Medical School community.</li> <li>Q. What do you mean when you say, "outstanding service"?</li> <li>A. It was not specific to community service. I had actually won that award two years previously. It</li> </ul>

- the In Harm's Way? 14
- A. We were talking about conditions that are 15
- 16 found in the indoor environment, so we had a
- presentation on homes, presentation on schools, and a 17
- 18 presentation on work environments -- actually,
- specifically, hospitals, and what hazards were found 19
- 20 in -- in those three settings, three indoor
- 21 environments.
- 22 Q. What does your presentation consist of?
- 23 A. My presentation was the home's part of it,
- 24 because I was presenting research that had been
- 25 conducted in Massachusetts on home conditions.

- was more towards giving to the greater Dartmouth 14
- Medical School community, whether it be through 15
- teaching or other service. I was president of my 16
- student government during my fourth year of medical 17 18 school.
- 19 Q. What is the Resident Teaching Award?
- 20 A. It's awarded to the senior resident. So, the
- 21 most-graduate resident who is the best teacher to the
- 22 interns, which is the first year of residency.
- 23 Q. Did you receive any academic honors or awards 24 at Yale?
- 25 A. Not that I recall.

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1	Q. Did you receive any academic honors or awards	1	recall whether or not we talked about allergens,
2	at Dartmouth?	2	specifically, or other effects on schools.
3	A. Not that I recall.	3	Q. Is publication number 3 on your C.V. a
4	Q. Did you receive any academic honors or awards	4	rewrite of publication number 2?
5	at Boston University?	5	MR. ELIASBERG: Objection. Vague.
6	A. The Boston Combined Residency Program is	6	THE WITNESS: We considered it a second
7	Boston University and Boston Children's Hospital.	7	edition to which we were adding additional facts and
8	Boston University's Medical Center is called, now,	8	changing some of the structure of it. Some of the
9	Boston Medical Center. And so it is a considered	9	content within the two reports is similar. But, as I
10	an academic award.	10	mentioned, we added a chapter on schools and added
11	Q. How did you obtain that award?	11	some national information from the Department of
12	A. It's voted on by all the members of the	12	Housing and Urban Development to show differences in
13	intern class within the residency program.	13	housing conditions housing affordability across the
14	Q. Referring again to the second page of your	14	country.
15	C.V., in the Publication section, in which of those	15	BY MR. SEFERIAN:
16	public cases did you discuss the effect of molds and	16	Q. In any of your publications did you discuss
17	allergens on children's health?	17	toxins in public schools?
18	MR. ELIASBERG: Objection. Compound. Do you	18	A. I don't recall discussing toxins specifically
19	mean either in any publication, or both?	19	from schools. I have discussed, in some
20	BY MR. SEFERIAN:	20	presentations, toxins and their effect on children,
21	Q. In which of your publications have you	21	but I don't recall specifically discussing schools.
22	discussed the relationship between molds and	22	Q. In any of your publications have you
23	children's health?	23	discussed children developing cancer later in life in
24	A. For mold and child health we I don't	24	response to carcinogens in schools?
25	believe discussed it in one directly, though again	25	A. I know that I discussed that in my expert

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12

13

1 that was a while ago.

- 2 I am almost positive we discussed it in two
- 3 and in three. Discussed it in five, in six and in
- 4 seven, nine, I believe in ten.
- 5 And then in 11 we did discuss it more in an
- 6 advocacy sense than directly. Advocacy in the sense
- 7 of a child who was suffering because they were exposed
- 8 to a lot of mold, and how to advocate to get the child
- 9 out of that situation. So it a little bit indirectly
- 10 talked about how it affected child's health.11 Q. In any of the publications in your C.V., did
- 12 you discuss allergens in public schools?
- 13 A. In many of them I discussed how allergens
- 14 affect children's health, as I stated previously. I
- 15 don't believe in many of them did I discuss it
- 16 specifically coming from schools.
- Q. Do you recall any of your publications whereyou specifically discussed allergens in publicschools?
- A. I'd have to review number 3, the one I hadmentioned previously, There's No Place Like Home. I
- know that we did discuss, again, a chapter on schools.That was the difference between two and
- 24 three, was that we added -- or one of the differences
- 25 was that we added a chapter on schools. But I don't

- 1 report. I do not recall having discussed that
- 2 specifically in my publications.
- 3 Q. Have you taken any courses regarding health 4 conditions in public schools?
- 5 A. I've taken public health courses that have
- 6 dealt with urban environmental health and
- 7 environmental epidemiology and intermediate
- 8 toxicology, of which we have discussed, sometimes,
- 9 environmental conditions in schools.
- 10 Q. Where did you take those courses?
  - A. At Boston University School of Public Health.
  - Q. Did you have any degrees in public health?
  - A. I have a Master's of Public Health.
- 14 Q. At Boston University School of Public Health,
- did you take any courses specifically relating topublic school conditions -- public school-facilityconditions?
- 17 conditions?18 A. As I mentioned, some of the courses that I
- 19 took at times would mention public school conditions.
- 20 I'm not aware that they offer an entire course in it.
- 21 I may be -- I may be mistaken, but I'm not aware of an
- 22 entire course on public school conditions.
- 23 MR. ELIASBERG: Counsel, it's been about an
- 24 hour and 15 minutes. Could we just briefly go off the
- 25 record and talk about what's the best lunch plan?

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1 age	5-

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$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	<ul> <li>(Recess.)</li> <li>BY MR. SEFERIAN:</li> <li>Q. Dr. Sandel, did you have any discussions with Mr. Eliasberg about the deposition or this case in the break that we just took?</li> <li>A. He asked me I guess one of the questions you had asked wasn't school-specific, but I had answered in kind of a school-specific way. And so he just wanted to make sure I was that the answer that I gave reflected what I what I thought. And I thought it was appropriate. I didn't really have any questions, myself, that I asked him.</li> <li>Q. What question was that?</li> <li>A. Oh, he asked me a question. But I didn't really have any questions about how any of the procedures I seemed to understand them this time around.</li> <li>Q. What was the question that I asked you that was not school-specific?</li> <li>A. Oh. It was I'm sorry. I didn't understand.</li> <li>It was, "Are you aware of any public health experts on conditions that affect children's health?" And I had made it a school-specific question instead of just a general question.</li> </ul>	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	<ul> <li>A. His name is Dr. Joshua Sharfstein.</li> <li>Q. Is Dr. Sharfstein a professor at Boston University?</li> <li>A. He was a resident with me in the Boston Combined Residency Program.</li> <li>Q. Did Dr. Sharfstein also graduate from the residency program in 1999?</li> <li>A. Yes.</li> <li>Q. What courses do you teach at Boston University?</li> <li>A. Right now, I am teaching an adolescent health course at the Boston University School of Public Health. I am faculty on the Pediatric Environmental Health Fellowship, which is based out of Children's Hospital, but has teaching sites where I'm faculty in the at community-based organizations, and will eventually bring them to the Boston Public Health Commission. And I am a preceptor for a second year resident in the Boston University an adolescent health course?</li> <li>A. At the Boston University School of Public Health, yes, that's the course I'm teaching right now.</li> <li>Q. Have you ever taught any other courses at</li> </ul>
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\end{array} $	Page 55 But I thought it was still an appropriate question or answer. Q. When did you complete your residency program? A. That was the end of June of 1999. Q. Can you describe the combined residency program at Boston Medical Center and Children's Hospital? A. You spend about 50 percent of your time at both institutions, so I did both inpatient and outpatient rotations at Boston Medical Center, which is the Boston University institution, and Boston Children's Hospital. Q. What was the focus of your residency? A. It's interesting. Residency doesn't tend to have concentration or focus. I did do a fair amount of research during residency, so I spent a lot of my elective time doing either research projects or writing reports, as listed in my C.V.	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\end{array} $	Page 57 Boston University School of Public Health, other than the adolescent health course? A. No. I I just graduated in in May of this past year. Q. Does the adolescent health course you teach at Boston University School of Public Health in any way focus on conditions in school facilities? A. We have the students placed in different experiences with adolescents, one of which is in a public school in the City of Boston. We let the students choose different public health concerns about adolescents, some of which have included diseases that can be made worse by school conditions, but we don't have, right now, a specific lecture dedicated to school conditions. Q. How do the student placements work? A. We ask students to rank which placement they would like. We offer four, one of which is

19 Q. Was your residency focused in any particular 20 area of medicine?

- 21 A. If I could characterize it, I would say that
- it was in doing research into how the indoor 22
- 23 environment affects kids' health -- would be, I guess,
- 24 a way to characterize what I focused on.
- 25 Q. Who was your coauthor for Not Safe At Home?
- uld like. We offer four, one of which is 10
- school-based, one of which is after-school based, one 19
- of which is health-center based, and one of which is a 20
- 21 so-called teen-tot clinic -- a teenage parenting
- 22 clinic.

23 And we -- depending on the students' ranking,

- 24 assign them -- we assign six students to go to East
- 25 Boston High School to attend one of their -- they have

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1	a health track at East Boston High School, so these	1	A. It was started by Dr. Joshua Sharfstein and
2	students will go and talk with the students at East	2	myself while we were writing the initial report, Not
3	Boston.	3	Safe At Home. And we had basically continued it as a
4	Q. Do the students placed in the adolescent	4	way to try and network with other people who were
5	health course document school-facility conditions as a	5	interested in the indoor environment and children's
6	regular part of the course?	6	health.
7	MR. ELIASBERG: Objection. Vague.	7	Q. Would you say that the focus of the Doc4Kids
8	THE WITNESS: The structure of the	8	project, in terms of the indoor environment and
9	interaction in the schools is for the students to find	9	children's health, has focused on housing conditions?
10	out what the public school students are concerned	10	A. I would characterize it that the the
11	about. It can sometimes be environmental, things that	11	Doc4Kids project focuses on housing conditions, in
12	the public health school students are concerned about.	12	that those conditions affect children's health. That
13	And that would drive whether or not they would do a	13	was in its initial focus. I think that, over time,
14	a survey of the school conditions.	14	it's become clear to me that those conditions exist in
15	BY MR. SEFERIAN:	15	many places and can affect children in many places.
16	Q. Have any of the students in your adolescent	16	Q. So the initial focus of the Doc4Kids project
17	health course conducted any surveys of public school	17	was on the indoor environmental conditions as they're
18	conditions?	18	related to children's housing, correct?
19	A. We just started the semester in January	19	A. I would say that we found these conditions to
20	beginning of January, so they they actually haven't	20	be present in housing and wanted to characterize how
21	been out to the schools yet. But I believe in past	21	they affected kids' health, and looked initially
22	years students have done environmental health	22	predominantly at housing as sources of those
23	assessments.	23	conditions.
24	Q. Were you ever an instructor at Boston	24	Q. What is the Family Team?
25	University before this January?	25	A. The Family Team is a multi-disciplinary team

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1 A. Do you mean instructor in a course?

Q. Yes.

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A. Or do you mean an academic appointment of an instructor?

- 5 Q. Both.
  - A. This is the first class that I've taught at

7 Boston University School of Public Health. As I

8 mentioned previously, I was a student up until May and

9 so this is a -- I'm on my first opportunity. And then

- 10 I actually -- my first academic appointment was to
- 11 assistant professor. I skipped over the instructor
- 12 appointment.

Q. Are you currently director of the Doc4Kidsproject?

15 A. Yes. I am currently the director.

16 Q. What are your duties as director of the

17 Doc4Kids project?

18 A. We have a report that's available on the

19 internet with an e-mail address that we can be

20 contacted through. And we get e-mails from people who

21 are interested in the report, would like more copies

- 22 of the report, are interested in what further research
- 23 we've done -- and so I am responsible for those calls

and e-mails.

25 Q. What is the Doc4Kids project?

at Boston Health Care For the Homeless Program, which consists of myself as a pediatrician, a nurse practitioner, and -- actually two nurse practitioners and two other nurses, four case managers, and a nutritionist and various mental-health professionals.
Q. How does the Doc4Kids project receive its funding?
A. It's a small project that has basically been continued by myself. As I mentioned, the -- we have a -- our report -- the first report available online through the Boston Child Health Foundation. And so that I would characterize the project as continuing to

- 13 try and continue to -- to look at environmental health
- 14 in children, though most of its activities really are
- 15 related to myself and the activities that I do.

Q. Are there any other people currently workingon the Doc4Kids project, other than yourself?

18 A. Most of the people that were originally part

19 of it have graduated from residency, and so that it's

- 20 basically a continuation in terms of the report and
- 21 keeping the report available. And then trying to
- 22 create as much of an environment at Boston Medical
- 23 Center to try and continue those activities.
- 24 Q. As of this time, are there any other people
- 25 working actively on the Doc4Kids project, other than

$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\end{array} $	<ul> <li>Page 62</li> <li>you?</li> <li>A. No.</li> <li>Q. How does the Family Team receive its funding?</li> <li>A. Boston Health Care For the Homeless Program is listed as a federally funded health center, and it works both by having hospital-based clinics at different hospitals in Boston, as well as doing outreach at shelters to provide health care in a shelter setting, which is predominantly what the Family Team does.</li> <li>And, also, they have a respite program that they run for people who are not sick enough to be in a hospital setting, but not particularly well enough to be on the street or in a shelter setting.</li> <li>Q. Does the Family Team perform any services in public schools?</li> <li>A. We've given talks to public school nurses around children who are homeless and their medical needs. The Family Team has also conducted surveys of environmental conditions in homeless shelters.</li> </ul>	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\end{array} $	<ul> <li>Page 64</li> <li>Q. What do you do in that regard? Are you still the medical director?</li> <li>A. No. I am I continue to work with them around education, outreach and this year I have too many commitments and had to step down from medical director, though hopefully next year I may be able to come back as medical director. And sometimes I'll do some case consultation for them.</li> <li>Q. Do any of the Family Advocacy Program's activities relate to public school-facility conditions?</li> <li>A. I'm not sure. I know that one of the attorneys has a lot of contact with the schools which may include some public school facilities.</li> <li>Q. Which attorney is that?</li> <li>A. Her name is Pamela Tames, T-A-M-E-S.</li> <li>Q. Are you still on the executive committee of the Asthma Regional Coordinating Council?</li> <li>A. Yes.</li> <li>Q. What are your duties as a member of that</li> </ul>
		20 21 22	<ul><li>Q. What are your duties as a member of that executive committee?</li><li>A. We tend to meet on a monthly to bimonthly</li></ul>
23 24 25	<ul><li>A. Not that I'm aware of.</li><li>Q. Are you still a director of the Child</li><li>Protection Team?</li></ul>	23 24 25	basis, discussing certain decisions about the council such as council membership, next meetings, fundraising, as examples.
1 2 3 4 5	Page 63 A. No. Q. What is the Child Protection Team? A. It's a team of social workers, psychologists, doctors, and nurses trying to help doctors or health professionals, really, within the hospital setting	1 2 3 4 5	Page 65 Q. Are you a member of any medical partnerships? A. Can you define "medical partnerships"? Q. Well, are you affiliated with any any hospitals? A. I have privileges at Boston Medical Center

- around child abuse -- both physical and sexual abuse,and child-abuse evaluation.
- 8 Q. Are any of the Child Protection Team's 9 activities related to public school-facility
- 10 conditions?
- 11 A. Not that I'm aware of.

12 Q. What's the Family Advocacy Program?

13 A. The Family Advocacy Program is a

- 14 medical-legal collaboration where the hospital has
- 15 hired attorneys to be on staff at the hospital to
- 16 provide legal consultation to our patients around some
- 17 of their legal needs, as it pertains to their health.
- 18 An example would be a child who is having
- 19 problems in school and is not getting the appropriate
- 20 services that they're eligible for. We may get a
- 21 lawyer involved from the Family Advocacy Program to
- help that child get the services they're eligible for.
- Q. Are you still affiliated with the FamilyAdvocacy Program?
- 24 Advocacy Pro 25 A. Yes.

5 A. I have privileges at Boston Medical Center 6 and Boston Children's Hospital.

- 7 Q. Do you see patients at any other locations
- 8 besides Boston Medical Center and Boston Children's9 Hospital?
- 10 A. I currently see patients at Boston Medical
- 11 Center. My privileges at Children's are courtesy
- privileges. I used to do some moonlighting there, butI stopped.
- And I see children and families in homelessshelters as part of my medical care.
- 16 Q. Have you ever seen patients in a public 17 school?
- 18 A. I have not medically examined children in a
- 19 public school, recently. I did in medical school, but
- 20 that was a long time ago.
- 21 Q. Did you -- do you see patients in any type of 22 private medical office?
- 23 A. No.
- 24 Q. What do you consider to be your areas of
- 25 expertise?

		I
Page	66	

	Page 66		Page 68
1	A. I consider myself to be an expert in how the	1	A. Yes.
2	indoor environment affects children's health.	2	Q. Did you have any talks with Mr. Eliasberg or
		3	
3	Q. Are all the patients you see at Boston		anyone else about this deposition or this case during
4	Medical Center pediatric patients?	4	our lunch break?
5	A. Yes. I see both patients in the Pediatric	5	A. No. Just Mr. Eliasberg and myself were
6	Clinic and the Adolescent Clinic, and so I do have	6	discussing the case at lunch.
7	patients that are in there early 20s, sometimes mid	7	Q. What did you discuss with Mr. Eliasberg about
8	20s. So I can have, you know, patients from birth up	8	the case at lunch?
9	through that age range.	9	A. I asked him questions, just background, about
10	Q. What portion of your time is spent examining	10	the case like, "How many experts do you have?" and,
11	patients, as opposed to your work with Boston	11	"How many lawyers are working on it?" because I'm not
12	University?	12	that familiar with the overall case.
13	A. This academic year, starting from July 2002	13	Q. Did you ask Mr. Eliasberg any other questions
14	through July 2003, I spend 40 percent of my time	13	besides how many experts did he have and how many
15	examining patients at Boston Medical Center. I spend	15	lawyers did he have working on the case?
16	approximately 40 percent of my time examining patients	16	A. Not that I recall. Those are the general
17	in shelter settings, and I spend 20 percent of my time	17	types of questions I asked.
18	doing research.	18	Q. Did you discuss anything else about the case
19	Q. So would it be accurate to say that	19	during lunch?
20	approximately 80 percent of your time is spent	20	A. No.
21	examining treating patients and 20 percent is spent	21	Q. Would you agree that you have not published
22	doing research?	22	any scientific studies that show a specific public
23	A. For this academic year, yes.	23	school's students becoming ill as a result of
24	Q. What do you anticipate will be the case	24	school-facility conditions?
25	starting in July of 2003? Will there be any	25	MR. ELIASBERG: Objection. Vague.
	Page 67		Page 69
	Page 67		Page 69
1	difference in the amount of time you spend examining	1	THE WITNESS: I would say that I have mostly
1 2	difference in the amount of time you spend examining patients as opposed to performing research?	1 2	C C
	difference in the amount of time you spend examining		THE WITNESS: I would say that I have mostly
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2 3	<ul><li>difference in the amount of time you spend examining patients as opposed to performing research?</li><li>A. I should spend come July 2003, 40 percent</li></ul>	2 3	THE WITNESS: I would say that I have mostly published articles about how specific conditions make children or may make children sick. Most of those
2 3 4	<ul><li>difference in the amount of time you spend examining patients as opposed to performing research?</li><li>A. I should spend come July 2003, 40 percent of my time clinically, and 60 percent of my time</li></ul>	2 3 4	THE WITNESS: I would say that I have mostly published articles about how specific conditions make children or may make children sick. Most of those articles have focused on home conditions or the specific conditions being found in the home setting.
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<ul> <li>A. I'm aware of studies, some of which I cite in my expert report, that will show similar conditions in the home and in the school. There are other studies which will make the connection between those conditions being associated with making children sick.</li> <li>I'm not aware of studies that do both together.</li> <li>Q. As you sit here today, do you recall any of</li> <li>MR. ELIASBERG: Asked and answered.</li> <li>Maskethe connection between those</li> <li>I'm not aware of studies that do between those</li> <li>I'm not aware of studies that do both together.</li> <li>that the extent could be substantial, given all the</li> <li>ways that mold can affect health.</li> </ul>	15	· ·	15	
<ul> <li>18 my expert report, that will show similar conditions in</li> <li>19 the home and in the school. There are other studies</li> <li>20 which will make the connection between those</li> <li>21 conditions being associated with making children sick.</li> <li>22 I'm not aware of studies that do both together.</li> <li>23 Q. As you sit here today, do you recall any of</li> <li>18 THE WITNESS: I'd have to say, again, it's a</li> <li>19 complicated estimate to make. It I would need more</li> <li>20 information to make that estimate, and that it would</li> <li>21 require some assumptions, but that the I believe</li> <li>22 that the extent could be substantial, given all the</li> <li>23 ways that mold can affect health.</li> </ul>	16		16	a result of mold in their school?
<ul> <li>19 the home and in the school. There are other studies</li> <li>20 which will make the connection between those</li> <li>21 conditions being associated with making children sick.</li> <li>22 I'm not aware of studies that do both together.</li> <li>23 Q. As you sit here today, do you recall any of</li> <li>19 complicated estimate to make. It I would need more</li> <li>20 information to make that estimate, and that it would</li> <li>21 require some assumptions, but that the I believe</li> <li>22 that the extent could be substantial, given all the</li> <li>23 ways that mold can affect health.</li> </ul>	17			
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22I'm not aware of studies that do both together.22that the extent could be substantial, given all the23Q. As you sit here today, do you recall any of23ways that mold can affect health.	20	which will make the connection between those	20	information to make that estimate, and that it would
23 Q. As you sit here today, do you recall any of 23 ways that mold can affect health.	21	<b>e</b>	21	
		I'm not aware of studies that do both together.		that the extent could be substantial, given all the
24 the studies that were cited in your report that 24 MR SEFERIAN: Would you read that answer	23		23	ways that mold can affect health.
	24	the studies that were cited in your report that	24	MR. SEFERIAN: Would you read that answer,
25 discuss conditions similar in the home and the school 25 please.	25	discuss conditions similar in the home and the school	25	please.

THE COURT REPORTER: "THE WITNESS: I'd have 1 1 location? 2 to say again it's a complicated estimate to make. 2 A. Some of the studies that I recall, for 3 3 It -- I would need more information to make that example, some that are in the expert report, include 4 chapters in the Clearing the Air book. There was an 4 estimate, and that it would require some assumptions, 5 5 but that the -- I believe that the extent could be article looking at types of molds found in homes and substantial, given all the ways that mold can affect 6 schools -- another study that looked at amount of 6 health." 7 7 cockroach allergen found in homes and schools. 8 Q. Do you have any opinion about the number of 8 BY MR. SEFERIAN: 9 students in California Public Schools who have become 9 Q. I understand that it's a complicated 10 estimate. What I'm asking is, as you sit here today, 10 ill in the last five years as a result of mold in 11 do you have any estimate about the number of students 11 their school? 12 12 in California Public Schools who have become ill in A. My opinion is that I believe there to be mold 13 present in some California schools to the point that 13 the last five years as a result of mold in their can potentially make children sick. Without being 14 school? 14 15 MR. ELIASBERG: Asked and answered. given certain estimates about number of children, 15 16 THE WITNESS: Well, an example of a piece of 16 extent of specific mold damage -- it's difficult for me to come up with an exact number of children who the estimate that could be done would be to say that 17 17 18 have been affected by mold. 18 an estimated 10 percent of kids have asthma in the 19 I think that it's also important to note that 19 State of California. 20 That may be a conservative estimate, given 20 mold can affect children in multiple, different ways the fact that there is data to suggest that there are so that molds can potentially cause allergic 21 21 concentrations where more than 10 percent of kids have 22 reactions. They can potentially, in certain cases, 22 23 cause people to be infected with mold. In other 23 asthma, especially in predominantly poor or cases, children can suffer the effects of certain 24 predominantly minority neighborhoods. 24 25 Given the fact that about 10 percent of kids 25 toxins from mold or irritation from mold, not an

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<ul> <li>total number of children for each of those four areas.</li> <li>It would require looking at the estimated prevalence</li> <li>of all of those types of conditions. And it would</li> <li>also require the number of schools that had visible</li> <li>mold or mold odor where the children would be</li> <li>potentially exposed.</li> <li>That's one example of how you could come up</li> <li>with such an estimate.</li> <li>Q. Have you performed that work in this case?</li> <li>MR. ELIASBERG: Asked and answered.</li> <li>THE WITNESS: No. I have not.</li> <li>BY MR. SEFERIAN:</li> <li>Q. Do you have any opinion about the number of</li> <li>students in California Public Schools who have become</li> <li>ill as a result of allergens in their school in the</li> <li>last five years?</li> <li>A. As I stated previously, I was not asked to do</li> <li>any of those types of estimates. As was previously</li> <li>described, there are some methods that such estimates</li> <li>could be made, but since I was not asked to do so, I</li> <li>did not do that.</li> <li>Q. Would it be fair to state that you do not</li> <li>have any opinion about the number of students in</li> <li>Laifornia Public Schools who have become ill in the</li> </ul>
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<ul> <li>in their school that are discussed in your report?</li> <li>A. No. I think I do have an opinion.</li> <li>I think my expert testimony states that I do</li> <li>think that children are becoming sick as a result of</li> <li>their conditions in the schools.</li> <li>Q. Do you have any estimate about the number of</li> <li>students in California Public Schools who have become</li> <li>ill in the last five years as a result of any of the</li> <li>conditions discussed in your report in the children's</li> <li>schools?</li> <li>A. My understanding of the scope of my expert</li> <li>report was to describe the effects of the conditions</li> <li>as they would pertain to child health. My scope of</li> <li>the report was not to estimate or quantify those</li> <li>effects.</li> <li>Q. Did you do any work to verify the results or</li> <li>findings of any of the studies or reports that you</li> <li>cited or reviewed in this case?</li> <li>MR. ELIASBERG: Objection. Vague and</li> <li>overbroad.</li> <li>THE WITNESS: The type of verification that I</li> <li>generally do with sources is to find the same</li> <li>information in other sources for most of the</li> <li>citations. I I felt I could find this similar</li> <li>information in multiple places. That is what I would</li> </ul>

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I age	80

	Page 78		Page 80
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	<ul> <li>consider adequate verification.</li> <li>BY MR. SEFERIAN:</li> <li>Q. In this case, when you found another source that verified the same information did you cite that source in your report?</li> <li>A. I think I tried to be as extensive with my sources as possible. There are some instances where I may have only listed one source for a given statement, but many of the sources in my bibliography also may verify other points that I may not have specifically put next to a given statement, itself.</li> <li>Q. In this case, have you prepared any scientifically-verifiable analysis of how many California Public School students have suffered or will suffer long-term health effects caused by facility conditions in California Public Schools?</li> <li>MR. ELIASBERG: Asked and answered. THE WITNESS: No. It was not in the scope of my report to estimate long-term health effects of substandard conditions in California schools.</li> <li>BY MR. SEFERIAN:</li> <li>Q. Do you have any estimate about the number of California Public Schools that have mold?</li> <li>A. It wasn't within the scope of my report toto prove that there were these conditions in the</li> </ul>	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	<ul> <li>of the some of the documents that I cited in my expert report, that these conditions are present in some California schools.</li> <li>Q. As you sit here today, can you name any specific California Public Schools about which you have the opinion that mold or another facility condition has caused illness to student or students at that school?</li> <li>A. Well, as I mentioned previously, my brother was a teacher at an elementary school in Oakland. He described to me the fact that water came into the school every time it rained through gaps in windows, ceiling, and poor or what seemed like leaking roofs that there was one bathroom facility for boys and one for girls for nine hundred students, and he described overflow of trash in that school. And he described an episode of no heat for many days in a row, and that all of those, in his opinion, could be tied to kids potentially being sick.</li> <li>Q. In your brother's opinion?</li> <li>A. In my brother a medical doctor?</li> <li>A. No.</li> <li>Q. What is your brother's name?</li> <li>A. Rowen, R-O-W-E-N, Sandel, S-D-N-D-E-L.</li> </ul>
	Page 79		Page 81
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	<ul> <li>schools. It was an assumption on my part, given some of the reports that I cited in, I think, the first section of my report.</li> <li>So it's difficult for me to make a specific estimate of the number of schools that have mold.</li> <li>Q. Do you have any opinion about the number of California Public Schools that have allergens, chemicals, toxins, inadequate ventilation, lead, biologic hazards, excessive heat, or pest infestation? MR. ELIASBERG: Objection. Compound. THE WITNESS: In my review of some of the documents in my expert report, I believe those conditions that you listed are present in the schools, though, again, that's not what I am testifying to as an expert. I am simply describing the health effects if those conditions are present.</li> <li>BY MR. SEFERIAN:</li> <li>Q. Would it be accurate to say that there are not any specific California Public Schools about which you have the opinion that mold or any of the other facility conditions that you described have caused student illness?</li> <li>A. No.</li> <li>I would say that though it is difficult to comment on any specific school, that from the review</li> </ul>	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	<ul> <li>Q. Where is your brother currently working?</li> <li>A. He is currently working at a restaurant</li> <li>during the day or during the day and nights. And then he's writing the "great American novel" in his spare time.</li> <li>Q. What city does he live in?</li> <li>A. San Francisco.</li> <li>Q. Your brother described those conditions to you regarding Highland School?</li> <li>A. Yes.</li> <li>Q. Are there any other I'll withdraw that. Other than Highland School in Oakland, are there any specific California Public Schools about which you have the opinion that mold or other facility conditions mentioned in your report has caused students' illness?</li> <li>A. TIl say it again, that it is difficult for me to talk about specific conditions in specific schools, but that from reviewing larger documents about the State of California and its school conditions, I believe those conditions to be present in some California schools.</li> <li>Q. What would you need to do, as a researcher, to show to a reasonable medical probability that a particular student became ill as a result of mold</li> </ul>

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1	present in his or her school?	1	of different ways to show probability that a child is
2	MR. ELIASBERG: Objection. Vague.	2	becoming sick as a result of a condition in their
3	Overbroad. Incomplete hypothetical. Ah, strike the	3	school.
4	last one.	4	One example would be that a child is well
5	THE WITNESS: I think that there are two ways	5	during a school vacation when a child's not exposed to
6	to answer that question:	6	the school environment.
7	I think the first is, as a researcher, one	7	Another example would be that after a certain
8	would want to look at the children's potential	8	condition was removed from the school that a child's
9	exposures and the potential ways that a child could	9	health improved.
10	become sick as a result of them.	10	A third would be that a child transferred to
11	As a doctor treating a child who is sick, I	11	a different school setting where this condition was
12	think that you would also want to look at those same	12	not present.
13	types of questions.	13	Those are three examples of ways that one
14	A researcher may want to do more intensive	14	could feel confident that a given condition could make
15	analysis of the environment, whereas a doctor may	15	someone sick.
16	simply take a history and feel confident in certain	16	BY MR. SEFERIAN:
17	exposures to then decide how to treat a patient.	17	Q. In order to feel confident that a given
18	BY MR. SEFERIAN:	18	condition made a student or groups of students sick,
19	Q. As a researcher, if you wanted to show to a	19	would one also need to examine the condition at the
20	reasonable medical probability that a particular	20	school to find out the nature and the extent,
21	student became ill as a result of mold or another	21	location, duration of that condition?
22	facility condition, would you want to examine the	22	MR. ELIASBERG: Objection. Compound.
23	school facility were that student was attending?	23	THE WITNESS: Generally, one would want to
24	MR. ELIASBERG: Vague and ambiguous.	24	define a certain condition or exposure, but that
25	Incomplete hypothetical.	25	many times that condition or exposure can be easily
	Page 83		Page 85
1		1	·
	THE WITNESS: In my opinion, a single		identified through visual inspection or through

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report.

2 child -- in examining their exposures, you would want 3 to evaluate their conditions in as systematic a way as 4 possible. 5 You can also examine those same conditions in 6 how they affect large groups of kids, and be able to draw conclusions about how those children could 7 8 potentially become sick, also. 9 I think in -- trying to determine whether or not a specific child is sick can be complicated by 10 meeting a lot of, again, information to decide whether 11 or not you decide -- whether or not you assign a 12

13 certain amount of certainty to a specific outcome.
14 But, again, I think that it can be studied in

15 multiple, different ways in a school setting to

16 determine whether an individual child is sick.

17 BY MR. SEFERIAN:

18 Q. What work would you need to do, as a

19 researcher, to show to a reasonable medical

20 probability that a particular school and,

specifically, mold on that school was causing illnessto the students at that school?

23 MR. ELIASBERG: Objection. Vague as to 24 "cause."

25 THE WITNESS: I think that there are a couple

BY MR. SEFERIAN: Q. Do you consider yourself to be an expert in the field of public health?

5 the field of public health?
6 A. I consider myself to be an expert in how the
7 indoor environment affects children's health.

8 Q. Do you consider yourself to have expertise9 with regard to molds that are prevalent and grow in10 California?

MR. ELIASBERG: Objection. Vague.

THE WITNESS: I believe that there are

13 specific species of molds that are present throughout

14 the United States and may be in different proportions

- 15 in different regions of the country.
- 16 BY MR. SEFERIAN:
- 17 Q. Do you have any opinions regarding whether
- 18 certain species of mold are present in greater
- 19 proportions in California than in other regions of the20 country?

A. It's my opinion that California is a large

state; and so that to characterize the most southern

23 part of California and the northern part of

24 California, which may have different climates, will

25 have different molds, just like in different seasons

1	there are different molds that may be more prevalent.	1	units."
2	I believe I cite in my expert report a study	2	BY MR. SEFERIAN:
3	done in California that characterized types of molds	3	Q. Which research project are you referring to?
4	that are found in California in schools.	4	A. It's a research grant that I listed on my
5	Q. As you sit here today, do you have any	5	C.V., called the Boston Healthy Homes Partnership,
6	opinion about whether there are certain specific	6	which is a study conducted in Boston homes, funded by
7	species of mold that are more-or-less prevalent in	7	Department of Housing and Urban Development.
8	Southern California or Northern California?	8	Q. In this case, were you asked to undertake any
9	A. My opinion is that there can be variability	9	effort to visibly quantify the amount of mold in any
10	in what species of mold grow in schools, depending on	10	particular California Public School or classroom or
11	temperature, relative humidity, and water exposure.	11	across the state, generally?
12	So that each given condition would determine which	12	A. I was asked in my expert report to address
13	mold species would be more-or-less likely to grow. So	13	the effects of mold if it were present in schools. I
14	that region of the state only plays one part in many	14	was not asked to quantify amount of mold.
15	to determine which species of mold would grow.	15	Q. If you were going to determine the effects of
16	Q. And in this case, did you make any	16	mold in any particular school, for example, would one
17	assumptions or determinations about which species of	17	of the pieces of information you want to have be for
18	mold are prevalent in California Public Schools?	18	you to visibly quantify the number of square feet of
19	A. In preparing this report I did not address	19	mold in that school or classroom?
20	specific mold species, and I addressed mold as as a	20	A. I'm sorry. Can you repeat that question?
21	health hazard in total.	21	THE COURT REPORTER: "QUESTION: If you were
22	Q. Do different species of mold pose different	22	going to determine the effects of mold in any
23	health risks to children?	23	particular school, for example, would one of the
24	A. There are thought to be different thresholds	24	pieces of information you want to have be for you to
25	for different molds where children can potentially	25	visibly quantify the number of square feet of mold in

for different molds where children can potentially 25

have ill effects. And there are some molds that are

1

more toxigenic -- meaning, producing toxins -- than 2 2 THE WITNESS: If there was visible mold others that have been linked with more severe health 3 3 present or, as I mentioned previously, a smell of mold 4 effects in children. 4 in a school, then my feeling would be that there could 5 Q. In this case, why did you not address in this 5 potentially be enough mold to make certain children report specific mold species in California and their 6 6 sick, though there may be a heavier burden of mold 7 prevalence in California Public Schools? 7 given more square feet of affected area, and that the 8 A. In other discussions with researchers in mold 8 more mold present could potentially make more children 9 or in other public health researchers, speciation of 9 sick. 10 mold has not been deemed to be as useful in 10 I think that may be important, but it would 11 association with health effects as visibly quantifying be my contention that, really, any visible mold or 11 amount of mold. 12 12 mold smell has the potential to make some children 13 Q. What do you mean when you say, "visibly 13 sick. 14 quantifying"? 14 BY MR. SEFERIAN: 15 A. Most research studies, including the one that 15 Q. Do you consider yourself to have expertise I'm conducting, will quantify number of square feet of with regard to the allergens that are present in 16 16 affected area contaminated with mold as a relative California? 17 17 18 amount of burden of mold, versus speciating number of 18 A. I consider myself to be an expert on how some 19 colony-forming units. 19 allergens will affect children if they're exposed to 20 Q. Will you please read that answer. them in the indoor environment. Some examples include 20 21 THE COURT REPORTER: "ANSWER: Most research 21 pest allergens such as cockroaches or a mouse, as studies, including the one that I'm conducting, will 22 22 examples of allergens that I'm familiar with that I 23 quantify number of square feet of affected area 23 believe to be present in California schools. 24 contaminated with mold as a relative amount of burden 24 Q. And the basis of your belief that these 25 of mold, versus speciating number of colony-forming 25 allergens and the other facility conditions mentioned

visibly quantify the number of square feet of mold in 25

that school or classroom?"

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1	in your report are present in California Public	1	A. No.
2	Schools is based upon the materials the written	2	Q. What expertise allowed you to become
3	materials that you were asked to review in this case,	3	certified by the National Board of Medical Examiners?
4	correct?	4	A. The National Board of Medical Examiners
5	A. They were based on some of the reports that I	5	conducts three different tests during your medical
6	cited in my expert report, some of which are	6	school and residency.
7	publically available, some of which I requested.	7	The first is at the end of your second year,
8	Q. You have not conducted any independent study,	8	generally; the second is at the end of your fourth
9	yourself, to determine the extent to which the	9	year, generally; and the third is somewhere in the
10	facility conditions mentioned in your report are	10	first and second year of your residency, generally.
11	present in California Public Schools, correct?	11	I passed all three tests and was, therefore,
12	MR. ELIASBERG: Objection. Vague.	12	certified under the National Board of Medical
13	THE WITNESS: My scope of my expert report	13	Examiners.
14	was to determine the effects of conditions, if they	14	Q. Who are the members of the Boston Healthy
15	were present in the California Public Schools. It was	15	Homes Partnership?
16	not within the scope of my report to independently	16	A. The Boston Healthy Homes Partnership includes
17	verify those conditions.	17	the Boston Public Health Commission; the Boston
18	BY MR. SEFERIAN:	18	Housing Authority; the Boston Urban Asthma Coalition;
19	Q. In this case, were you provided any	19	five other community-based organizations, four of
20	information regarding different weather conditions in	20	which are community health centers and one of which is
21	California?	21	a community advocacy group; Boston Medical Center, the
22	A. Some of the reports that I reviewed described	22	hospital I work at; and other agencies around both the
23	extremes in temperature in California Public Schools.	23	study that's being conducted and and to create sort
24	Q. In this case, did you review any information	24	of sustainable change around healthy indoor
25	regarding the climate in different portions of	25	environments in Boston.

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California and California weather patterns?
 A. I did not review documents that specifically

3 just dealt with weather conditions. But, as

4 mentioned, I did review some descriptions of extremes

5 in temperature and humidity in California schools.

Q. How many patients do you have?

MR. ELIASBERG: It's vague. You mean

8 currently or ever?

6

7

9 BY MR. SEFERIAN:

10 Q. How many patients do you see in a typical 11 week?

12 A. I have four sessions, hospital-based, to

13 which I'll see approximately eight to ten patients a

14 session. I will go to four to five shelters a week

15 and we'll see anywhere from probably a minimum of four

16 patients to sometimes I'll see 16 or 17 patients

17 during a session. There are also many patients that

18 are in my practice that I don't see on a regular19 basis.

20 Q. Do you consider yourself to be an expert in 21 the field of pediatrics?

A. I'm a board-certified pediatrician and I'm a practicing pediatrician.

24 Q. Do you have a medical license in any other

25 states besides Massachusetts?

Q. Does the Boston Healthy Homes study relate to
 any other indoor environmental conditions besides
 mold?

4 A. The health -- I mean, excuse me. The

5 environmental assessment we do pertains to mold;

6 analysis of dust collected for specific allergens,

7 including dust mites, cockroach, mouse urinary

8 protein, dog, cat; and we also do ambient air testing

9 for things such as temperature, relative humidity,

10 volatile organic compound, nitrogen dioxide, ambient

dust; and then observation of other indoor healthhazards such as environmental tobacco smoke, for

13 example.

24

25

Q. Has the Boston Healthy Homes Partnershippublished the results of any of its research?

16 A. No. We are currently in the last year of the

study, and so we hope to have some published resultsin the next year.

19 Q. Where would the results be published?

A. Probably in a medical journal, though I'm not sure which.

22 Q. How many principal investigators are there in 23 the Boston Healthy Homes Partnership?

A. Two.

Q. Who's the other principal investigator?

Page 92

	Page 94		Page 96
1	A. The name is John Bernardo, B-E-R-N-A-R-D-O.	1	percent complete estimate.
2	He's an M.D.	2	My estimate would be seven.
3	Q. Who else is involved in doing the work in the	3	Q. To the best of your recollection, are all of
4	Boston Healthy Homes Partnership, other than yourself	4	the approximately seven research projects with which
5	and Dr. Bernardo?	5	you've been involved at Boston University reflected in
6	A. There's the head of the asthma program at the	6	your C.V.?
7	Boston Public Health Commission. And then we have	7	A. Yes.
8	multiple staff: a program manager; two home	8	Q. Are you presently a researcher or an
9	inspectors; a home educator on staff at the Boston	9	investigator in any other studies, in addition to the
10	Public Health Commission; plus we contract with	10	Boston Healthy Homes Partnership and the National
11	community health centers for health educator time at	11	Institute of Environmental Health Sciences?
12	the community health centers and the other agency I	12	MR. ELIASBERG: Objection. Vague and
13	mentioned: Community Advocacy Agency.	13	ambiguous.
14	Q. Is any of the environmental assessment being	14	THE WITNESS: I mentioned that there was
15	performed by the Boston Healthy Homes Partnership	15	another manuscript in process. I'm listed as a
16	being performed in schools?	16	principal investigator on that study.
17	A. No, not part of the study.	17	BY MR. SEFERIAN:
18	(Pause in proceedings.)	18	Q. Any others, currently?
19	BY MR. SEFERIAN:	19	A. Not not that I can recall.
20	Q. Do you have any publications in process other	20	MR. ELIASBERG: Are you going to shift off
21	than those listed in your C.V.?	21	the C.V.? Because it's been about an hour and 15
22	A. There's one on peer violence that I I	22	minutes. Is this a good time to take a break?
23	mentored some residents doing research. And I think	23	MR. SEFERIAN: Yeah. This is a good time.
24	it's called Peer Violence and Educational Intervention	24	(Recess.)
25	in Residency, and it's a manuscript that's finished	25	BY MR. SEFERIAN:
	Page 95		Page 97
1	that we're submitting for publication.	1	Q. Dr. Sandel, in your pediatric practice do you
2	Q. Does that publication have anything to do	2	frequently make the determination that a childhood

- with the opinions you have rendered in this case? 3 4 A. No. 5 O. How many years of research experience -public health research experience do you have? 6 7 A. Well, I began doing research when I was an 8 undergraduate, though I never published anything from
- 9 that research. I also did some research in medical 10 school that also is unpublished. And then during residency is when I began to publish the research that 11
- I currently continue to do in that subject area of the 12
- 13 indoor environment and children's health.

14 O. Did any of your research as an undergraduate or medical student -- school student relate to indoor 15 environmental conditions and children's health? 16

A. No.

17

- 18 Q. Do you have any degrees in statistics?
- 19 A. My Master's of Public Health -- I had two
- concentrations: one in epidemiology and 20
- 21 biostatistics, and the second in environmental health.
- 22 Q. Do you have an estimate of how many different
- 23 research projects you've worked on at Boston
- 24 University?
- 25 A. I can make an estimate. It may not be a 100

illness was caused by the physical condition of the patient's school facilities? A. There have been instances where I thought that a child's symptoms could be related to their

7 school. 8

3

4

5

6

Before we go any further, if I could just 9 clarify one of my answers from the last session.

- 10 You had asked me about my brother and my -and I had explained that he had described certain 11 12 conditions in the schools. And he had said that he 13 thought that maybe kids would be sick as a result of
- that. Even though he's not a medical professional, 14
- and although I didn't examine those children, I can 15 16 think that there's a good likelihood that the children
- could be sick as a result of the conditions that he 17
- 18 described.
- 19 Q. Can you give any type of estimate as to how frequently you've made the determination that one of 20
- 21 your patient's symptoms could be related to his or her
- 22 school facility's conditions?
- 23 A. I think it's hard to estimate. I can think
- 24 of some specific instances, some of which I cite in my
- 25 expert report as examples.

	Page 98		Page 100
1 2 3 4 5 6 7 8 9 10 11 12	<ul> <li>Q. As you sit here today, do you have any type of estimate as to how frequently in your pediatric practice you may have the determination that a child's symptoms could be related to his or her school facilities?</li> <li>A. I'm sorry. Could you just read that question back to me?</li> <li>THE COURT REPORTER: "QUESTION: As you sit here today, do you have any type of estimate as to how frequently in your pediatric practice you may have the determination that a child's symptoms could be related to his or her school facilities?"</li> </ul>	1 2 3 4 5 6 7 8 9 10 11 12	Page 100 who said that she was going to take it to the principal. At that time she didn't have the principal's name, so she was going to visit the school herself in person and deliver the letter. Q. With regard to the second child you mentioned with the chronic cough, how did you make the determination that it might be related to exposure to dust from a school construction site? A. The child described having the cough during the week and especially more in the mornings when he first would arrive at school; and he described the the dust on his desktop. He did not seem to have the
12 13 14 15 16 17 18 19 20 21 22 23 24 25	<ul> <li>THE WITNESS: As I said before, it's hard to estimate either a percentage or a given number. I can think of some specific cases of children.</li> <li>BY MR. SEFERIAN:</li> <li>Q. Have there been any instances when you believed that a patient's symptoms could be related to his or her school-facility condition, and you reported that to any governmental authority or the patient's school?</li> <li>A. There have been kids who I have contacted the school nurse to discuss their case; other instances, I have written letters documenting my belief of a connection between a condition and in the school</li> </ul>	12 13 14 15 16 17 18 19 20 21 22 23 24 25	the dust on his desktop. He did not seem to have the cough as much either at night when he was at home or on the weekends. And he did not seem to have this cough previous to the construction and dust forming on the desk. Q. Have you ever spoken at a public school in Massachusetts about the effect of the physical condition of school facilities on students' short-term and long-term health? A. No. Q. Is your current business address listed on your C.V.? A. Yes. Q. Have you ever given a deposition before
	Page 99		Page 101
1 2 3 4 5 6 7	<ul><li>and a child's health problem.</li><li>Q. What were the different types of instances that you've encountered where a patient's symptoms you found could be related to his or her school facility's condition?</li><li>A. Two examples I can think of are, first, a child with severe asthma whose school would have</li></ul>	1 2 3 4 5 6 7	today? MR. ELIASBERG: Asked and answered. THE WITNESS: No. This is my first deposition. BY MR. SEFERIAN: Q. Is there any reason that you cannot provide your best deposition testimony today?

- child with severe asthma whose school would have 7
- excess water and mold growth when it rained. And I 8
- 9 spoke with the school nurse about the conditions in 10 the school.
- The second was a child who was having a 11
- chronic cough that was not thought to be asthma, where 12
- 13 the child could temporarily relate the cough with his
- 14 exposure in school to dust that seemed to be left over
- from a construction project. And in that instance I 15
- wrote a letter documenting his symptoms and the 16
- relationship between the construction and the child's 17 18 health. 19
  - Q. Who did you write the letter to?
- 20 MR. ELIASBERG: Talking about the second
- 21 instance, or the first?
- 22 BY MR. SEFERIAN:
- 23 Q. The second instance.
- 24 A. I actually wrote it -- addressed it To Whom
- 25 It May Concern. I gave it to the mother of the child,

- your best deposition testimony today? 1
- 8 A. Not any reason I can think of.
- 9 Q. What did you do to prepare for this
- 10 deposition?
- A. I met with a lawyer from the ACLU in Boston, 11
- and Peter and I spoke by phone. And we had dinner 12
- 13 last night.
- 14 Q. Did you review any documents to prepare you 15 for the deposition?
- 16 A. I reviewed my expert report, and I reviewed
- 17 some of the reports in -- listed in the bibliography
- 18 of my expert report.
- 19 Q. Anything else? 20
  - A. I think that's all I recall reviewing.
- O. When did you meet from the -- meet with the 21
- 22 lawyer from the ACLU in Boston?
- 23 A. I'm not sure of the exact date. I believe it
- was about a month ago. We had dinner. 24
- 25 Q. What was that person's name?

	Page 102		Page 104
1	A. I know his first name is Mark. I have to	1	both homes and schools that the use of evidence from
2	admit I don't recall, exactly, his last name.	2	both indoor environments was appropriate.
3	Q. Was it your understanding that the lawyer you	3	Q. Who felt that those conditions were the same
4	met with approximately one month ago works in Boston?	4	in both homes and schools?
5	A. No. He was, I believe, from the ACLU	5	A. Many of the reports that I cite in the expert
6	Southern California Office. He was in town for a	6	report come to that conclusion.
7	different case and was able to fit me into his	7	Q. Are there some reports that you cite in your
8	schedule while he was in town.	8	expert report in this case that examine conditions in
9	Q. What did you discuss with Mark during this	9	schools and a similar condition in homes, and conclude
10	meeting you had approximately one month ago?	10	that the health effects from those conditions are the
11	A. He gave me an overview of what a deposition	11	same in both locations?
12	was. We discussed general types of questions that can	12	A. There's, for example, one article that I
13	be asked at depositions, and discussed some specific	13	cite, written by Ruth Etzel, that does comment on
14	areas of questions that I may get during the	14	conditions in homes and schools together. There's
15	deposition.	15	also some citations in at least one chapter within the
16	Q. How long did you meet with Mark approximately	16	Institute of Medicine study, Clearing the Air, that
17	one month ago?	17	also makes similar conclusions, for example.
18	A. I'd say approximately two hours.	18	Q. In addition to the Etzel study and the
19	Q. During your meeting did he show you any	19	Institute of Medicine study, are there other studies
20	documents?	20	that you cite that compare conditions in homes and
21	A. No.	21	schools and the health effects of those facilities'
22	Q. Was this meeting related to preparing you for	22	conditions on children, as far as you can recall?
23	your deposition in this case? Is that how you	23	A. There are some studies that will comment on
24	understood it?	24	specific conditions such as mold in homes and mold in
25	A. That was my understanding, yes.	25	schools or cockroach in home cockroach allergen in

Q. In the deposition-preparation meeting you had 1 2 approximately one month ago, did you discuss with the 3 attorney whether there were any weaknesses in your 4 report? 5 A. He asked me what I thought would be possible

6 questions that I would get. 7

O. And what did you say?

8 A. I did think that I would be asked about the

9 conditions in homes versus schools. And I speculated 10 whether I would be asked about solutions to the

conditions that I was discussing in the expert report. 11 Q. Were there any other types of questions that 12

13 you thought might be asked when you had this meeting 14 approximately one month ago? A. Those were the two major areas that I thought 15

16 I would be asked questions about.

Q. During this meeting that you had 17

18 approximately one month ago, what was your discussion

with the attorney regarding testifying regarding 19

conditions in homes versus schools? 20

21 A. We talked about the fact that some of my

- 22 evidence in my expert report were describing
- 23 conditions in schools and some was describing
- conditions in homes and their health effects, and that 24
- 25 since those conditions were felt to be the same in

- 1 homes or cockroach allergen in schools. Many of these 2 studies comment on one area of substandard conditions
- 3 in homes and schools, and may not necessarily in that
- 4 study address the health effects. But there are other
- 5 studies I cite that do comment on the health effects

of those allergens or mold or other things. 6

7 Q. In your deposition-preparation meeting a 8 month ago, what did you discuss with the attorney

- 9 regarding questions you might be asked about solutions
- 10 to the facilities' conditions discussed in your expert report? 11
- 12 A. I wondered whether or not I would be asked
- questions about the proof of such solutions working. 13
- Since it was outside the scope of my expert report, I 14
- had not researched that literature as extensively, and 15
- 16 it was felt that -- that if I was asked questions
- about it that I could answer as best to my ability. 17
- 18 But it was not directly related to the scope of my 19 report.
- 20 Q. Would it be correct to say that the expert
- 21 report you prepared in this case does not discuss
- 22 solutions to the facilities' conditions that are
- 23 mentioned in that report?
- 24 A. I would say that the expert report does not
- 25 identify all the possible solutions to the substandard

	Page 106		Page 108
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	<ul> <li>conditions in California Public Schools, though, as mentioned previously, there is some implication of some solutions in the report itself.</li> <li>Q. In this case, will you be offering your opinion about solutions that you believe California should implement in response to the facilities' conditions mentioned in your expert report in this case?</li> <li>A. Not unless asked to do so.</li> <li>Q. Have you been asked to render such opinions in this case by plaintiff's counsel?</li> <li>A. No.</li> <li>Q. When did you speak with Mr. Eliasberg by telephone to prepare for this deposition?</li> <li>A. I'm not positive of the date. I think it was last week, maybe last Monday.</li> <li>Q. How long did you speak with Mr. Eliasberg on the telephone last week to prepare for the deposition?</li> <li>A. Approximately one hour.</li> <li>Q. What did you discuss in that telephone conversation with Mr. Eliasberg?</li> <li>A. He also gave me a general rundown of what a deposition is and what are typical areas of questioning. And he did ask me some questions I may</li> </ul>	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\\25\end{array} $	<ul> <li>report discussed conditions in homes, primarily, as opposed to conditions in schools?</li> <li>MR. ELIASBERG: Objection. Misstates her prior testimony.</li> <li>THE WITNESS: It's not my opinion that it's a weakness. It's my opinion that it would be a line of questioning that I I thought I would get.</li> <li>BY MR. SEFERIAN:</li> <li>Q. What aspects of the section of your report regarding lead did you discuss with Mr. Eliasberg?</li> <li>A. We talked about lead being related to learning problems as a toxic effect to the brain of being exposed to lead.</li> <li>Q. But what about that did you discuss?</li> <li>A. We discussed the developing brain from birth until young elementary-school age, you know, five, six; and the effects that lead can have through different periods of time; and the short-term and long-term effects of that lead exposure.</li> <li>Q. Do you recall anything else you discussed with Mr. Eliasberg last week?</li> <li>A. I'm not sure if it was that conversation or a different one. I asked him about bringing out the books that I cite in the bibliography, for instance, to have with me here in California and whether or not</li> </ul>
1 3 4 5 6 7 8 9 10 11 12 13 14 15 16	<ul> <li>page 107</li> <li>get asked.</li> <li>Q. When you spoke with Mr. Eliasberg last week, did you discuss any particular aspect of your expert report in this case?</li> <li>A. We did review some of the the lead section, the the different paragraphs dealing with lead. I don't believe we reviewed all of them, but we generally discussed lead.</li> <li>Q. Were there any other sections of your report that you discussed with Mr. Eliasberg last week, other than the lead section?</li> <li>A. We talked, again, about schools and homes and the conditions being shared between them both. That's about all I recall.</li> <li>Q. When you had the discussion with Mr. Eliasberg last week, did you discuss any possible</li> </ul>	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\end{array} $	<ul> <li>Page 109</li> <li>that would be a problem or some of the articles that I cite, having them with me here more logistical stuff about depositions that I wasn't sure about.</li> <li>Q. What did he say in that regard?</li> <li>A. He said that most of those materials were already turned over or publicly available, so that it shouldn't be a problem.</li> <li>Q. What did you discuss in your deposition-preparation meeting yesterday with Mr. Eliasberg?</li> <li>A. It was mostly a review of stuff we had discussed previously on how a deposition goes, types of questions generally that you're asked, sort of the logistics of asking for breaks, and things like that.</li> <li>Q. Did you discuss any aspect of your expert</li> </ul>

17 weaknesses in your expert report?

- 18 A. Just the two that I described previously:
- The schools and homes sharing the same conditions, and 19

20 I -- I think we talked briefly about solutions, though

it wasn't -- I don't remember discussing it really in 21 22 detail.

- 23 Q. When you discussed your report with Mr.
- 24 Eliasberg last week did you state that, in your
- 25 belief, it was a weakness of the report that the

report when you met with Mr. Eliasberg yesterday? 17 A. We did discuss formaldehyde, and went into

18 19 one of the paragraphs on formaldehyde.

Q. What did you discuss about the formaldehyde 20 21 paragraph?

22 A. We were discussing increased risk for cancer

23 in children attributable to formaldehyde exposure.

24 Q. When did you review the expert report to

25 prepare for this deposition?

	Page 110		Page 112
$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $	<ul> <li>A. I re-reviewed it on the plane, and I looked it over last night before I went to bed and this morning.</li> <li>Q. When did you review some of the reports listed in the bibliography to your report to prepare for the deposition?</li> <li>A. I looked through some of them last weekend, I looked through some of them on the plane, and I looked through some of them last night.</li> <li>Q. Do you recall any of the specific reports that you reviewed to prepare for this deposition?</li> <li>A. I re-reviewed some of the chapters in the Indoor Air Quality Handbook which is written by Spangler. I re-reviewed some of the chapters in indoor sorry Clearing the Air, from the Institute of Medicine.</li> <li>I skimmed a lot of articles that are listed in the bibliography. For instance, the Etzel article on homes and schools, the mouse allergen article by I'm not going to pronounce it right Phillip Akee. It's in the it's in the bibliography things like that.</li> <li>Q. Did you meet with anyone else or speak to anyone else besides Mr. Eliasberg and the attorney in</li> </ul>	$ \begin{array}{c} 1\\2\\3\\4\\5\\6\\7\\8\\9\\10\\11\\12\\13\\14\\15\\16\\17\\18\\19\\20\\21\\22\\23\\24\end{array} $	<ul> <li>Page 112</li> <li>BY MR. SEFERIAN: <ul> <li>Q. Have you seen this document which has been marked as Exhibit 2?</li> <li>A. I'm not sure I've seen this actual piece of paper before.</li> <li>Q. Do you recall if you've seen any document that has similar information to the information that's contained on Exhibit 2?</li> <li>A. I was provided with some depositions from some of the plaintiffs. I reviewed them very briefly, since it was my understanding that the scope of my report was not to verify, necessarily, the extent of the conditions in the California Public Schools, but to I requested these to get a sense of the number of conditions that were being alleged.</li> <li>Q. Did you read any of the depositions that were provided to you in this case in their entirety?</li> <li>A. I did read some of the depositions. I cannot recall if I read any single deposition in its entirety. I more my general practice was to look through the depositions looking for certain types of conditions that are known to be affecting children's health.</li> <li>Q. What types of conditions were those?</li> </ul> </li> </ul>
25	Boston to prepare for the deposition?	25	A. Examples of bathroom facilities with
1 2 3	Page 111 A. No. Just those two. Q. Have you read any of the other expert reports in this case or any of the expert depositions in this	1 2 3	Page 113 excessive trash or plumbing problems, pest infestations, extremes in temperature, extremes hot, extremes cold, mold growth and water leakage, overcomputing as exemples of the types of conditions

- 4 case? 5 A. In preparation of this expert report -- I had
- 6 never written one before, so I did see an example of

7 an expert report to use as a -- an example to create

8 the structure of an expert report. 9

Q. Whose expert report did you look at as an example for the structure? 10

- A. I have to admit I'm not positive. I think 11
- his last name is Hausmann, but I'm -- I'm not sure. 12
- 13 Q. Who provided you with the Housmann expert 14 report?
- A. Mr. Eliasberg. Or -- I'm not -- I should say 15
- 16 I'm not positive. I think it was either Mr. Eliasberg 17 or Mr. Moynihan.
- 18 Q. Do you recall what the subject of that expert 19 report was?
- 20 A. Not very well. My recollection was that it had something to do with learning in schools. 21
- 22 MR. SEFERIAN: I'd like to ask you to look at 23 a document I'll ask the reporter to mark as Exhibit 2.
- 24 (Exhibit 2 marked for identification.) 25 (Witness examines document.)

- 4 overcrowding -- as examples of the types of conditions 5 that I saw.
- Q. Have you seen any documents similar to 6
- 7 Exhibit 2 that might contain a description of some of
- 8 the records that were provided to you to review in
- 9 this case? 10
  - MR. ELIASBERG: Objection. Vague.
- THE WITNESS: Can you give me an example of a 11
- type of document? I -- I have to admit I don't recall 12
- 13 seeing this exact document.
- 14 BY MR. SEFERIAN:
- 15 Q. Do you recall ever receiving in this case
- from plaintiff's counsel any of the documents that are 16
- listed in Exhibit 2? 17
- 18 A. I definitely received a large stack of
- 19 documents, which I still have at home. I do not
- 20 recall the names of the -- the people who did the
- 21 depositions of the -- that I have in my possession.
- Q. You were sent some depositions from 22
- 23 plaintiffs' counsel. 24
  - Is that correct?
- 25 A. Yes.

Page	116
I age	110

	Page 114		Page 116
1	Q. Were you also sent declarations from	1	receive all of these.
2	plaintiffs' counsel? On Exhibit 2, it says,	2	Q. As you sit here today, is there any specific
3	"Declaration of," and it has a list of names.	3	document that you recall having received from
4	Do you recall receiving any documents which	4	plaintiffs' counsel that you do not see listed on
5	you believe might be described by those declarations?	5	Exhibit 2?
6	A. What's the difference between a deposition	6	A. Could you read that one more time?
7	and a declaration?	7	THE COURT REPORTER: "QUESTION: As you sit
8	Q. Well, typically a deposition transcript would	8	here today, is there any specific document that you
9	have more pages and it would be a listing of questions	9	recall having received from plaintiffs' counsel that
10	and answers; whereas, a declaration is typically	10	you do not see listed on Exhibit 2?"
11	shorter in length and it just contains a verified	11	THE WITNESS: There were other documents that
12	statement of an individual, without containing	12	I requested that are not listed on this sheet of
13	questions and answers within it.	13	paper, but they were not declarations or depositions.
14	A. I remember reviewing what probably were	14	They were specific California-based reports.
15	depositions of things that had questions and answers	15	BY MR. SEFERIAN:
16	in it.	16	Q. Which reports were those?
17	The I think there may have been	17	A. I do remember requesting a copy of the Daisy
18	declarations, also, in the stacks of papers, but my	18	and Angel report listed in the bibliography. I also
19	my memory is more of reviewing the depositions.	19	requested reports from EWG Environmental Working
20	Q. I'd like to show you a document which I'll	20	Group and Ed Source. I also requested a report on
21	ask the court reporter to mark as Exhibit 3.	21	Lead Exposure Within the California Schools, by the
22	(Exhibit 3 marked for identification.)	22	Department of Health Services.
23	BY MR. SEFERIAN:	23	There may be other reports; those are the
24	Q. And I'll ask you if you recognize that	24	ones I can think of off the top of my head.
25	document.	25	Q. Why did you request those reports?

A. I don't recognize it as one of the documents 1 2 that I reviewed.

3 Q. Do you recall reviewing in your work in this 4 case any documents similar to Exhibit 3, wherein at 5 the top of the document it says, "Declaration of," and 6 has a person's name? And it has a list of numbered 7 paragraphs where a person is giving a declaration or a 8 statement about certain conditions. 9 Do you recall receiving and reviewing any documents in this case similar to the document that's 10 marked as Exhibit 3? 11 12 A. I may have reviewed some of these types of 13 documents. 14 The ones that stand out in my mind are more 15 the depositions. 16 Q. If I could ask you to refer again to Exhibit 2. Does Exhibit 2 -- let me withdraw that question. 17 18 Are there any documents that you were 19 provided by plaintiffs' counsel in this case that you 20 do not see listed on Exhibit 2? A. Again, I reviewed these documents when I 21 22 first was writing the expert report, which was well 23 over, I believe, a year ago. I don't recall specific names, so it's difficult for me to say whether --24

25 either this is an incomplete list or whether I did not Page 117

- 1 A. Some of the reports weren't easily accessible through normal medical-literature libraries. And some
- 2 of them were more easily available, but I needed help
- 3
- 4 finding the specific web links. 5

O. On Exhibit 3, there's approximately 16 6 declarations listed. In looking at Exhibit -- I'm 7 sorry.

8 In Exhibit 2, there's approximately 16 9 declarations listed.

10 In reviewing Exhibit 2, does that refresh

your recollection at all about how many different 11

- declarations you reviewed in this case? 12
- 13 A. In looking at Exhibit 3, which is an example
- 14 of a declaration -- I do believe that I probably
- reviewed at least a couple declarations. 15
- My -- what my -- sticks out in my memory are 16
- the depositions, since they were thicker and I tended 17
- 18 to flip through them to get a sense for the types of
- 19 questioning that were being asked.

20 But, again, I have difficulty recalling any

- 21 specific one deposition or one declaration.
- 22 If I could add one thing to that answer. My
- 23 understanding of why those materials were important to
- 24 me was simply to understand the number of conditions
- 25 that I should be thinking about in my expert

	Page 118		Page 120
1	testimony.	1	Q. Do you recall if any of the deposition transcripts that you reviewed in this case described mold growth in California Public Schools?
2	Again, my understanding was not that I needed	2	
3	to prove that those conditions existed. And so that	3	
4	part of the reason why I did not pay attention to	4	<ul><li>A. My memory is that there was some description of mold growth, and many descriptions of water intrusion that could lead to mold growth.</li><li>Q. What do you mean by "water intrusion"?</li></ul>
5	names or to looking through every single deposition or	5	
6	declaration was that once I had ascertained that a	6	
7	given condition existed in any one or two schools,	7	
8	according to the deposition or declaration, I was	8	A. Excess water in indoor settings which can
9	satisfied enough that it made sense to include that	9	result from multiple sources, including roof leaks,
10	condition in my report.	10	plumbing problems, poor sealing of windows to give
11	MR. ELIASBERG: It's been about an hour. Can we just go off the record for a second?	11	some examples.
12		12	Q. Did you regard the descriptions of mold
13	MR. SEFERIAN: Yes.	13	growth that were in the depositions that you reviewed
14	(Recess.)	14	as establishing that it was, in fact, mold that was
15	BY MR. SEFERIAN:	15	being described and not some other condition?
16	Q. Dr. Sandel, were there any other records that	16	A. My memory is that the conditions were
17	you would have liked to review in forming your	17	described in ways that were consistent with mold, in
18	opinions in this case, but that you did not review?	18	that the during, I believe, the depositions it was
19	<ul><li>A. No, not that I can think of.</li><li>Q. When you were reviewing the various depositions that you were provided and you saw a</li></ul>	19	asked, "Was there mold?" and the people being deposed
20		20	answered in the affirmative, which was their opinion.
21		21	Q. Do you believe that the deposition testimony
22	reference to a condition in a deposition, did you take	22	of the deponents' view that it was mold is sufficient
23	that reference in a deposition as sufficient proof	23	basis for broad public health statements about the
24	that that condition existed for the purposes of your	24	existence of mold in California Public Schools?
25	report in this case?	25	A. I believe that mold is generally an easy

MR. ELIASBERG: Objection. Vague. 1 recognizable condition, and that if the deponents 1 2 THE WITNESS: If I saw in a deposition that a 2 thought it to be present I think that there's a strong 3 3 certain condition was reported, I felt that it was -likelihood that they were correct. 4 well, if I saw it in more than one deposition I 4 There were other reports cited in my expert 5 thought that it was adequate to put it in my report as 5 report that also describe mold conditions in the a condition that should be explained the health California Public Schools, outside of the depositions 6 6 7 7 effects of. and declarations. 8 8 BY MR. SEFERIAN: Q. Are there any records that you asked 9 Q. So would it be accurate to say that if you 9 plaintiffs' attorneys to provide you with but they did 10 reviewed the depositions and you saw a particular 10 not provide you? school-facility condition mentioned in more than one A. Not that I remember. 11 11 deposition, that was sufficient for you to determine Q. Do you recall reviewing, in this case, 12 12 13 the presence of that condition in California Public 13 records from any particular public schools in Schools, for the purposes of your opinions in this 14 14 California? 15 case? 15 A. I don't recall reviewing individual reports 16 A. It was sufficient for me to want to describe 16 from public schools. I see one listed here, but I 17 the health effects of those conditions. 17 don't recall reviewing that report. 18 Again, I didn't view the scope of my report 18 Q. You're referring to Exhibit 2? to be proving that those conditions existed. 19 A. Exhibit 2, number 30. 19 20 O. When you reviewed the documents that were 20 Q. You're referring to the Brett Hart Middle provided to you by plaintiffs' counsel in this case, 21 21 School report? 22 did you make any types of separate notes regarding 22 A. Yeah. I don't recall that specific one. I 23 your review of those documents? 23 certainly have seen other reports that are 24 A. No, not that I recall did I take specific compilations of reports from individual schools, such 24 25 notes on any of the depositions or declarations. 25 as the studies cited in the Daisy-Angel report or

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1	studies from the General Accounting Office are	1	Q. Did you have any estimate of the amount of
2	based on individual school reports in California.	2	time that you've spent in performing the research and
3	Q. In this case, did you review any records from	3	all the work that you've done in this case, including
4	the California Department of Education?	4	drafting the report?
5	A. I did review a document that was faxed me,	5	A. I would probably estimate, in total, that the
6	that I'm not sure which California agency conducted	6	report probably took me my estimate would be
7	the study that was looking at reports of pests within	7	probably between 50 and 60 hours in total.
8	the California Public Schools.	8	In preparation for the deposition, I would
9	I also reviewed, as mentioned previously, the	9	probably describe it as about four or five hours in
10	Department of Health Services review of lead in the	10	total. And then, obviously, flying out here.
11	public schools.	11	Q. So you spent approximately 50 to 60 hours in
12	Those are the two state agencies in	12	reviewing the records that you were provided in this
13	California that I can recall reviewing reports. There	13	case, doing the research, and drafting the report.
14	may be others.	14	Is that correct?
15	Q. When was the report regarding pests in	15	A. That would be my best estimate.
16	California Public Schools faxed to you?	16	Q. Can you give any breakdown of how those 50 to
17	A. I don't recall.	17	60 hours are apportioned in terms of the different
18	Q. Was the report regarding pests a California	18	tasks that you performed in this case?
19	Department of Education report?	19	A. I probably spent a couple hours reviewing the
20	A. I'm not sure who commissioned that report.	20	depositions and declarations. I spent probably up to
21	Q. Did you review any records in this case from	21	10 to 15 hours on the initial draft of the report, and
22	the California School Facilities Planning Division?	22	then worked approximately five hours on subsequent
23	A. Again, I'm there's this one report that	23	drafts. Of the time working on drafts, approximately
24	sticks out in my mind from California schools	24	half of it was probably writing and half of it was
25	regarding pests, and I I really can't be sure about	25	reviewing the literature involved.
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Q. Did you provide any documents to plaintiffs' which agency commissioned that report. 1 1 Q. Have you reviewed any records in this case 2 counsel in this case? 2 3 3 prepared by any California state public health A. Some of the articles listed in the 4 officials that document the presence of any of the 4 bibliography I provided copies for. 5 conditions mentioned in your report? 5 O. Do you have any notes or records that were 6 MR. ELIASBERG: Other than the ones she's somehow lost or not maintained regarding your work in 6 7 7 mentioned? this case? 8 8 MR. ELIASBERG: Objection. Vague. THE WITNESS: The Department of Health 9 Services documented lead and lead in poor enough 9 THE WITNESS: It's my general practice when making drafts of articles or, in this case, a report, 10 condition to -- lead paint in poor enough conditions 10 to potentially expose children to lead. that once I make the actual changes in the document I 11 11 The aforementioned report that I cannot tend to throw my notes away because I have --12 12 13 remember which state agency commissioned it -- but 13 otherwise I -- my desk becomes too piled up with looking at pests' involvement. 14 clutter. 14 There were other agency reports that were 15 I will save drafts on my computer, though, as 15 draft 1, draft 2, draft 3, draft 4, so that I can look 16 included in the Daisy and Angel report on public 16 schools in California, some of which were, I think, back and see what changes were made. 17 17 18 state mandated and some, I think, federally mandated 18 BY MR. SEFERIAN: from the occupational safety agencies. 19 Q. Did you save the drafts of your report on 19 Those are the ones I can recall. There may your computer in this case? 20 20 A. Yes. 21 be others. 21 Q. How many different drafts were there of your 22 BY MR. SEFERIAN: 22 23 Q. Have you kept any log or time sheet of the 23 report in this case? work you performed in this case? 24 24

25

25

A. No.

A. My memory is that there were eight or nine.

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1	the records and work that you performed in this case?	1	A. Most of the lead literature looks at lead
2	A. I don't really have a paper file for this	2	exposure in younger children and tracks their
3	case, since when I would make notes if I was making	3	long-term effects of that lead exposure. I asked him
4	changes to drafts, once I made those changes in the	4	about the existence of later lead exposure and similar
5	actual document on the computer I would throw those	5	tracking of those types of effects.
6	notes away.	6	Q. What did Dr. Lanphear say about that?
7	So most of the record that I have is on my	7	A. My memory of his answer was that it's
8	hard drive of my computer at home, and then some	8	difficult to separate out exposure in younger children
9	e-mail communications in my e-mail account.	9	from the young elementary school-age child, that we
10	Q. Did you keep the printouts of e-mail	10	consider lead to be hazardous to children's health
11	communications that you sent between yourself and	11	from zero to six, that there is probably continued ill
12	plaintiffs' counsel?	12	effects from lead in older children, but that most of
13	A. I generally don't print out e-mail	13	the studies have not been able to separate those two
14	communication, so I don't have hard copies of e-mail	14	types of exposures to attribute risk.
15	communications. I tend to keep a lot of e-mail in my	15	Q. What are the two types of exposures you're
16	account, so I probably have some of the e-mail	16	referring to?
17	communication. But I I would guess that some of it	17	A. In this specific case, it would be exposure
18	would have been deleted over time, given the limited	18	to lead from elementary school facilities versus, for
19	ability to keep e-mail in an inbox over a long period	19	example, day-care facilities. And whether or not
20	of time.	20	those would have long-term effects on children.
21	Q. Did anyone assist you with researching or	21	Q. How much have you been paid for your work in
22	writing or editing your report or doing any of the	22	this case?
23	work that you performed in this case?	23	A. I contracted for the expert report for
24	A. I am the one who wrote the expert report. I	24	\$2,000.
25	did not show the expert report to anyone.	25	Q. How was that price determined?

Q. Did anyone assist you with performing any of 1 1 2 the research and/or gathering articles that you did in 2 3 3 this case? 4 A. My husband helped me get some of the articles 4 charged them \$2,000. 5 from a library. I did the research in the case. I 5 6 had one clarifying question on one of the areas of the 6 7 report regarding lead, so I asked one of my friends 7 8 who is an expert in lead about that one area. 8 9 Q. Who was the expert you consulted on lead? 9 A. His name is Dr. Bruce Lanphear, 10 10 L-A-N-P-H-E-A-R. I've cited some of his articles in 11 11 12 my bibliography. 12 13 Q. Did you consult with any other professionals 13 in -- other than Dr. Lanphear in doing the work that 14 14 you did for this case? 15 15 16 A. No. 16 17 Q. What did you discuss with Dr. Lanphear about 17 18 lead in this case? 18 19 A. We discussed the existence of studies of 19 children who are exposed to lead during their 20 20 elementary-school years, and the connection between 21 Institute? 21 22 short-term and long-term learning and other 22 23 disabilities from that exposure. 23 Q. What was the question that you asked Dr. 24 24 25 Lanphear about the lead studies? 25 the results.

A. I originally thought it was going to be about 10 to 20 hours of work. And since I generally charge about \$100 to \$200 per hour in my consulting fees, I

Q. Why did you initially think it was going to be 10 to 20 hours of work?

A. When I was initially contacted, the expert report was due within a couple of weeks. And so I anticipated doing one, maybe two drafts of the report but not more. (Discussion held off the record.) BY MR. SEFERIAN: Q. When you say your consulting fee is \$100 to \$200 per hour, what type of work are you referring to? A. I've done consulting work for The Urban Institute, which is conducting a study into the effects of a specific housing development-type called Hope Six Projects. And I'm their pediatric consultant. Q. What does your work involve for the Hope Six A. It involves attending annual to biannual meetings, generally day-long meetings, as well as

occasional consultation about surveys or reports of

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<ul> <li>Q. What type of work is the Urban Institute</li> <li>doing in that project?</li> <li>MR. ELIASBERG: Objection to the extent it</li> <li>calls for speculation.</li> <li>THE WITNESS: The study consists of a</li> <li>longitudinal study of residents before and after Hope</li> <li>Six Projects are built. Typically, Hope Six Projects</li> <li>are the result after demolition of existing public</li> <li>housing projects with replacing them with these</li> <li>Hope Six units. The Urban Institute is interested in</li> <li>tracking residents before, during, and after that</li> <li>process, to see what the full extent of those</li> <li>developments have on the residents that traditionally</li> <li>were living in public housing.</li> <li>BY MR. SEFERIAN:</li> <li>Q. Does any of your work with the Urban</li> <li>Institute involve school-facility conditions?</li> <li>A. No.</li> <li>Q. Are you scheduled to be paid any additional</li> <li>amounts for your work in this case?</li> <li>A. I should be paid for the deposition today and</li> <li>hopefully tomorrow, and then for testifying in court.</li> <li>Q. Is there any work that plaintiffs' counsel</li> <li>have asked you to perform in this case that you have</li> <li>not yet performed?</li> </ul>	<ul> <li>students became sick from toxin exposure in school?</li> <li>A. At least one of the reports that I was</li> <li>provided, I believe from the Environment Working</li> <li>Group, or EWG, described toxin exposure in California</li> <li>Public Schools.</li> <li>Q. Did the EWG report demonstrate that</li> <li>California Public School students became sick from</li> <li>toxin exposure in school?</li> <li>A. If you have the report, I can look through it</li> <li>to be 100 percent sure of my answer. I do remember</li> <li>them talking about exposure and estimating that</li> <li>children were sick as a result of it, is my memory.</li> <li>Q. Did the EWG report make a finding linking the</li> <li>toxin exposure in school to California Public School</li> <li>students' illnesses?</li> <li>A. Again, it was a thick report so I'm not I</li> <li>can't remember whether it specifically talked about</li> <li>specific instances of children being sick, but it did</li> <li>talk about exposure and the potential consequences of</li> <li>that exposure in making children sick.</li> <li>Q. In your opinion, did the EWG report prove to</li> <li>a reasonable medical probability that students'</li> <li>illness was caused by toxin exposure in school?</li> <li>MR. ELIASBERG: Objection. Vague.</li> <li>THE WITNESS: My memory is that the EWG</li> </ul>
<ul> <li>A. I believe that I've performed all the work</li> <li>that they've asked me to do up until this point. They</li> <li>may ask me to do more work in the future.</li> <li>Q. As of this date, is there any other work that</li> <li>plaintiffs' attorneys have asked you to perform that</li> <li>you have not yet performed?</li> <li>A. No. There's no specific work that they've</li> <li>definitely asked me to do that I have not yet</li> <li>performed.</li> <li>Q. Are you contemplating some type of work in</li> <li>that response?</li> <li>A. They have mentioned to me that I may help</li> <li>them prepare rebuttal briefs or rebuttal reports to</li> <li>other expert witnesses that may be brought. Since I'm</li> <li>an expert in this area, I may help educate attorneys</li> <li>that are cross-examining or deposing, I should say,</li> <li>experts for the defendant side of the case.</li> <li>Q. Have you been asked to prepare or assist with</li> <li>any trait exhibits or demonstrations?</li> <li>A. No.</li> <li>Q. Have you provided with any records in this</li> <li>case, indicating that California Public School</li> </ul>	<ul> <li>Page 133</li> <li>report cited many studies to support its claim that</li> <li>children could be sick as a result of these exposures</li> <li>in California schools.</li> <li>BY MR. SEFERIAN:</li> <li>Q. Did the EWG report actually make the claim</li> <li>that children were sick as a result of exposure to</li> <li>toxins in public schools?</li> <li>MR. ELIASBERG: You can ask her these</li> <li>questions, but she's told you she doesn't remember</li> <li>exactly what's in the report.</li> <li>Do you really want to make this a memory</li> <li>exercise?</li> <li>You can answer.</li> <li>THE WITNESS: Again, I am not sure exactly</li> <li>what the report says regarding specific children being</li> <li>sick or making these specific claims, but they did</li> <li>draw the the conclusion from reasonable evidence</li> <li>that these exposures existed, and that it had the</li> <li>potential to make children sick.</li> <li>That's my memory of what the report says.</li> <li>I should say there are also other reports of</li> <li>other toxins, such as the Department of Health</li> <li>Services describing lead. There were other I think</li> <li>the Daisy-Angel report also describes other toxic</li> </ul>

Page 134 Page 136 1 1 A. He paged me. BY MR. SEFERIAN: 2 Q. Did you review any records in this case 2 Q. He paged you? 3 3 indicating that any California Public School students A. Yeah. 4 became sick from exposure to extreme temperature --4 Q. And after Mr. Eliasberg first paged you, did 5 5 you have an in-person or telephone conversation with extreme temperatures in school? 6 A. The Daisy-Angel report did describe extreme 6 him? 7 7 temperatures and their ill effects, as well as the A. Yes. We had a telephone conversation. 8 depositions did describe those conditions. Some of 8 Q. Do you recall the approximate date of that 9 the other literature that I've cited in my expert 9 first telephone conversation with Mr. Eliasberg? 10 10 report will also describe the connections between A. I think it was in that same time range, the extremes in temperature and children becoming ill. January-February. I don't remember the exact date. 11 11 12 Q. Were you provided any records in this case 12 O. What was said in the first telephone indicating that California Public School students were 13 conversation you had with Mr. Eliasberg? 13 14 diagnosed with cancer as a result of toxin exposure in 14 A. He briefly described the case and explained that they were looking for an expert witness to 15 school? 15 provide testimony about the connection between the 16 A. I don't recall being provided with materials 16 indoor environment and children's health, and that he 17 that described children being diagnosed with cancer, 17 had heard my name from other sources as someone who 18 18 no. 19 Q. Were you provided with any records indicating 19 could be an expert to that subject. 20 that California Public School students became sick 20 Q. In your initial telephone conversation with from exposure to cockroaches in school? 21 Mr. Eliasberg, did he tell you anything else besides 21 22 A. I was provided with documents that described 22 describing the case and letting you know that they 23 were looking for expert witnesses and that he had 23 cockroach infestation in schools, both by reports in 24 heard your name? 24 the depositions, as well as this previous document 25 that I described. 25 MR. ELIASBERG: Objection. Misstates her Page 135 Page 137 1 prior testimony. 1 And, also, the General Accounting Office 2

2 reports describe it. And I believe, also, the 3 Daisy-Angel discusses some pest infestation.

4 And then other studies have documented the

5 effects of becoming sensitive and therefore being

6 allergic to cockroach allergen and the effects of

7 being exposed, then, to that allergen.

8 Q. When were you first contacted about this 9 case?

10 A. My memory is that it was January or February of a year ago, I believe. 11

Q. January or February 2002? 12

13 A. No. It probably was more like 2001. Would that be right? No. Maybe -- it may have been even 14 that long ago. I'm -- I'm not positive, to be honest 15 16 with you. My memory was that it was -- no. No. It was 2002. 17 18 Q. So you were first contacted about this case

approximately one year ago. 19 20

Is that correct?

- A. To the best of my recollection.
- Q. Who contacted you? 22 23

A. Mr. Eliasberg.

21

24 Q. Can you tell me how Mr. Eliasberg first

25 contacted you in this case? You can go ahead and answer.

THE WITNESS: I don't recall more than

- 4 discussing the -- what the case was and what type of
- 5 expert testimony they were looking for.
- 6 BY MR. SEFERIAN:

7 Q. Do you recall how Mr. Eliasberg described the 8 case to you when you first talked to him on the

9 telephone?

3

17

10 A. He described -- my memory is that he

- described that there were plaintiffs, students, that 11
- were filing or had asked the ACLU to sue the State of 12
- 13 California around adverse conditions in the California
- Public Schools, of which some included things like 14
- 15 extremes in temperature, pest infestation, mold, et 16 cetera.
  - Q. Did Mr. Eliasberg tell you in that initial
- conversation or at some later time how he learned 18 19 about you?
- 20 A. I'm not sure. I think he heard about me
- 21 through Dr. Sharfstein, who is currently working for
- 22 Congressman Waxman.
- 23 Q. Other than this case, have you ever worked
- with the ACLU or any of the other plaintiffs' law 24
- 25 firms in this case?

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<ul> <li>A. No.</li> <li>Q. In that initial telephone conversation with</li> <li>Mr. Eliasberg, did you agree to be an expert witness</li> <li>for the plaintiffs in this case?</li> <li>A. I said I had to think about it. I discussed</li> <li>it with my husband and then agreed at a later date.</li> <li>Q. In the first conversation you had with Mr.</li> <li>Eliasberg, did he give you any description of the type</li> <li>of work that they were going to ask you to perform?</li> <li>The specific tasks that you'd be asked to do?</li> <li>A. I think he described the expert report. I</li> <li>don't remember whether he described the deposition and</li> <li>testimony as different phases, but he did discuss the</li> <li>need to write an expert report.</li> <li>Q. What was the next contact you had with</li> <li>plaintiffs' counsel, after that first telephone</li> <li>conversation?</li> <li>A. I think there was some time, whether it was a</li> <li>couple of days or a couple of weeks before I agreed to</li> <li>do the the expert report. And, as I described</li> <li>previously, I was initially given a very short</li> <li>deadline to complete the expert report.</li> <li>Q. What was your initial deadline? Do you</li> <li>recall?</li> <li>A. My memory is that I was going to give a draft</li> </ul>	<ul> <li>Q. Who else have you spoken with about this case</li> <li>who is an attorney for the plaintiffs or is a</li> <li>representative of the attorney, besides Mr. Eliasberg</li> <li>and Mark?</li> <li>A. On at least one of the phone calls with Mr.</li> <li>Eliasberg, I believe Mr. Moynihan was present. I</li> <li>don't really recall any other attorneys.</li> <li>Q. Do you recall approximately how many times</li> <li>you've spoken with Mr. Eliasberg about this case</li> <li>before your deposition?</li> <li>A. I didn't keep a log. I'm not sure of the</li> <li>number. My guess would be 20, 25 calls.</li> <li>Q. Those were all telephone calls?</li> <li>A. Yes.</li> <li>Q. Did you ever meet Mr. Eliasberg before</li> <li>yesterday?</li> <li>A. No.</li> <li>Q. How many times did you speak with Mark about</li> <li>this case?</li> <li>A. I can definitely remember one conversation.</li> <li>There may have been more than one, but I think at most</li> </ul>
<ul> <li>Page 139</li> <li>by March 1st, because I think the initial due date was</li> <li>March 15th.</li> <li>Q. After your initial phone call with Mr.</li> <li>Eliasberg, was your next conversation with him also on</li> <li>the telephone?</li> <li>A. Yes.</li> <li>Q. Did you call him at that time, or did he call</li> <li>you?</li> <li>A. My memory is that I left him a message and</li> <li>then he called me back. Generally, the easiest way to</li> <li>get ahold of me is by paging me, so I think he paged</li> <li>me.</li> <li>Q. And in that second telephone conversation</li> <li>with Mr. Eliasberg, did you let him know that you had</li> <li>agreed to serve as an expert witness for plaintiffs in</li> <li>this case?</li> <li>A. Yes.</li> <li>Q. Did you discuss anything else, that you</li> <li>recall, in that second conversation?</li> <li>A. I'm not sure whether it was that conversation</li> <li>or in later conversations that I asked for a copy of</li> <li>an expert report so I would know how to structure the</li> <li>report, and requested some of the the deposition</li> <li>material, so I could understand the number of</li> <li>conditions that I needed to discuss.</li> </ul>	<ul> <li>Page 141</li> <li>Q. Did you keep any type of notes or summaries</li> <li>of any of your conversations with Mr. Eliasberg or any</li> <li>of the other plaintiffs' attorneys?</li> <li>A. My general practice on the phone, if I'm not</li> <li>in the car, is to take notes. But, as I described</li> <li>previously, most of the notes I was taking were</li> <li>related to the drafts of the report, and so once I</li> <li>created those new drafts I generally threw those notes</li> <li>away.</li> <li>So I was asked by Mr. Eliasberg to produce</li> <li>any notes. And in searching my home office and my</li> <li>work office, I really didn't have any of those notes</li> <li>left since it's since I throw them away, generally.</li> <li>MR. ELIASBERG: Tony, it's about 5:30, so</li> <li>whenever there's a logical stopping place we should</li> <li>probably end for the day.</li> <li>MR. SEFERIAN: Yeah. We could stop here.</li> <li>(END TIME: 5:31 p.m.)</li> <li>//</li> </ul>