UNITED STATES DISTRICT COURT

DISTRICT OF MASSACHUSETTS

Civil Action No. 82-1672-S

SKINNER, D. J. and a Jury

ANNE ANDERSON, ET AL

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W. R. GRACE & CO., ET AL

Forty-Ninth Day of Trial

APPEARANCES:

Schlichtmann, Conway & Crowley (by Jan Richard Schlichtmann, Esq., Kevin P. Conway, Esq., and William J. Crowley, III, Esq.) on behalf of the Plaintiffs.

Charles R. Nesson, Esquire, on behalf of the Plaintifts.

Herlihy & O'Brien (by Thomas M. Kiley, Esq.) on behalf of the Plaintiffs.

Hale & Dorr (by Jerome P. Facher, Esq., Neil Jacobs, Esq., Donald R. Frederico, Esq., and Deborah P. Fawcett, Esq.) on behalf of Beatrice Foods.

Foley, Hoag & Eliot (by Michael B. Keating, Esq., Sandra Lynch, Esq., William Cheeseman, Esq., and Marc K. Temin, Esq.) on behalf of W. R. Grace & Co.

Courtroom No. 6
Federal Building
Boston, MA 02109
9:00 a.m., Thursday
May 22, 1986

Marie L. Cloonan Court Reporter 1690 U.S.P.O. & Courthouse Boston, MA 02109

PROCEEDINGS

THE COURT: All right. Recross by

Mr. Facher.

GEORGE S. PINDER, Resumed

RECROSS-EXAMINATION BY MR. FACHER, Continued

- O Dr. Pinder, are there any corrections that you wish to make to any part of your testimony or to any of the exhibits this morning, please?
- A Not to my knowledge.
- Q Can you tell me, sir, have you now changed your earlier testimony that the pump tests that were carried out between December 4th and January 3rd were supposed to recreate the historical pumping conditions under which Wells G and H pumped during the period 1964 to 1979?
- A I think that was the original intent of the decision to pump those wells at their capacities.
- Q So it is now your opinion that the pump test that was carried out between December 4th and January 3rd, did not simulate the historic pumping conditions during that period, 1964 to 1979, except perhaps with two or three percent of the time when Wells G and H were pumping full time together?
- A If we exclude the step test before the long-term

what was happening in the sixties and seventies, but Wells G 2 and H were not because they were going at full steam all 3 the time, right? I think we agreed that G and H at pumping full capacity represents a small portion of the entire historical 5 record. 6 Now, you say you looked at the Woodward-Clyde report. 7 You said yesterday you looked at the Woodward-Clyde report 8 to find out about information or get some information about 9 the Riley well. Do you remember saying that? 10 Α Yes, sir. 11 And the Woodward-Clyde report is in evidence as 12 Exhibit 679, and were you able to tell what gallonage they 13 were pumping at, the so-called -- that's what they call the 14 production well, is what these Riley pumping wells --15 Were you able to tell what they were pumping at? 16 Well, the report that you have in your hand is probably 17 It says up to 800 gallons per minute, as I read it. Q 18 Yes, but they actually quote historical pumping from Α 19 the other document where they tell you that the --20 Q Which other document? 21 There's a Woodward-Clyde report where they report 325,000 Α 22 gallons per day pumped on the average and --23 Which other document are you talking about, some other 24

document that you weren't referring to?

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Did you observe that?

Scope.

word, that Mr. Keating was talking to you about yesterday about the existence of chemicals on the Hemingway site.

MR. SCHLICHTMANN: Objection, your Honor.

THE COURT: Excuse me?

MR. SCHLICHTMANN: Objection to the scope.

THE COURT: Scope?

MR. SCHLICHTMANN: Scope.

THE COURT: Can I have the question?

(Question read back.)

THE COURT: It's outside the scope of redirect, but Mr. Facher is in a position t cross-examine about matters raised by Mr. Keating. The redirect examination, I see from the transcript, was a mere 20 pages, so that it's a very restricted -- I also see a -- Remind me at the recess to point out an error in the transcription. I'm not sure.

- That is more accurately pictured, that is, this blue tributary more accurately pictured on it, what we'll call the well location map, but it's the same location that we're talking about because you understand it, that Mr. Keating drew this rough diagram of?
- A Yes, I think I understand what he's trying to draw there.
- Q And these concentrations -- So you would agree that

that's an off-site, that is off the Beatrice site, no I believe we're talking about that being located up in No question under normal pumping conditions, north to south is the general flow, north to southeast? North to southeast. I will buy that. Well, now, were you aware of -- and these are soil numbers, are they not, as you understood them? We're not quite sure yet, I think, what those numbers mean. We know that they are concentrations in terms of dry soil. I don't think we've any water quality samples That's what I said, I think they're soil. Well, do you know what an auger sample is? And do you know if the result of an auger sample says If you just told me that, I wouldn't be able to get much water out of it or something like that.

THE COURT: Sustained.

Q Were you aware, also, sir, in your testimony that you didn't consider that that was an off-site source, that there were drums found up there as well as soil contamination?

MR. SCHLICHTMANN: Objection.

THE COURT: Overruled.

A Was I aware of drums?

- Q Yes, contents of drums, barrels, that had been tested by the EPA?
- A I don't think I had any knowledge of that.
- Q Were you aware, sir, when you just testified about not agreeing with the Woodward-Clyde conclusion, that TCE has drum contents, was only 3,000 parts per billion, whereas these numbers that Mr. Keating showed you showed TCE as 390,000? Were you aware of those two figures?
- A Sir, they are two different measurements. We can't compare apples and oranges. This is concentration per unit of mass of volume and soil. The other is a unit per unit of volume of water. If you look at the actual measurement, you'll see the sensitivity on these numbers is like a thousand times lower than what it is on the other numbers.
- Q The auger sample would be --
- A Auger samples, if they were both the same units of measurement, would be comparable.
- Q And if I told you the auger samples at the site, the

highest auger sample reading was 32,000 parts per billion, that would indicate that Hemingway was a more likely site source of the contamination than Beatrice, would it not?

MR. SCHLICHTMANN: Objection, your Honor, one on facts not in evidence, and two, the scope.

THE COURT: Where are you getting these figures from, Mr. Facher?

MR. FACHER: The auger samples, I believe, are in evidence. The figure I'm using is the one that Mr. Keating used yesterday on his assumption.

THE COURT: Overruled.

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Would you reask the question, please?

MR. FACHER: I will be glad to. May I have it read back, your Honor?

THE COURT: Please read the question.

(Question read.)

If I assume --THE WITNESS:

MR. SCHLICHTMANN: May I just ask something? Is he referring to the 32,000 as being a particular chemical?

MR. FACHER: Yes. The chemical is TCE.

MR. SCHLICHTMANN: Trichloroethylene?

MR. FACHER: Yes, sir.

THE COURT: You can answer the question.

THE WITNESS: If we assumed that that is all of the information that we have and we ignore all the other information about the site, absolutely everything else, just having those two numbers, I would be willing to agree that, if it was put in the ground at the same time, the two sources would be equally likely.

Now, if we compared drum contents to drum contents, that would be a fair measurement, wouldn't it, instead of apples and oranges if I gave you two drum readings?

At least we are working with the right unit.

Assume that the drum contents of Perc were found at 74,000 parts per billion at Hemingway or sometimes called Olympia Trust, and the drum contents of Sample 3, which is

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in evidence and the only drum contents which we have, showed only 1400 parts per billion of drum contents, wouldn't that fact suggest to you Hemingway was a more likely source?

- A I assume that they are buried drums, are they, sir?
- Q No. They are drums on the surface I would assume.
- A I think it would not be relevant.
- Q You don't know anything about drums buried at Beatrice?
- A No, sir.

If they are sitting on the surface, I would not think that that was particularly relevant.

- Q You can't tell much from a barrel sitting on the surface, right?
- A It depends on the barrel.
- 0 If the barrel --
- A I haven't seen the barrel.

THE COURT: The point is if it is in the barrel it is not in the ground.

THE WITNESS: That is the point I am trying to make.

- Q So if it was in the barrel at Beatrice or if it was in the barrel at Hemingway, you still can't tell much from it?
- A Not in and of itself. I think having a barrel with something in it, unless by inference you can get it in

(After recess.)

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THE COURT: Last round.

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MR. KEATING: Last round, your Honor.

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RECROSS-EXAMINATION BY MR. KEATING

Q Dr. Pinder, do you recall yesterday when I asked you how you arrived at the 75-foot-per-day figure for hydraulic conductivity? Do you remember my asking you that?

A Yes, I remember that question, yes.

Q And you said at that time that you used values to determine that conductivity, and I asked you, "Could you tell me what the values were that you used?" and you said that you'd thrown them out, or your words were, "It wasn't something I saved."

A You mean the arithmetic calculations; is that what you're referring to?

Q Yes, that's right.

MR. SCHLICHTMANN: Your Honor, is he going to go over testimony?

MR. KEATING: I was just going to go through some preliminary questions.

THE COURT: Yes, I gathered that.

Q Then I asked you how would we be able to test what you had, the values that you had selected if you hadn't

A.igay cull BAYO.....

saved them, and you -- I don't recall what your response was to that.

Then Mr. Schlichtmann got up after I had completed my examination, and on redirect he asked you a question about how you determined the hydraulic conductivity figure of 75 feet.

A I remember the redirect question. I don't remember the other one.

Q Well, I'll get to that in a moment.

Now, yesterday, when I asked you a question, you said, and I'll read you what your answer was to the question, you said, "I did average specific values. I don't happen to have the calculations with me, but I did precisely what you said, and I took into consideration each of the different materials and I did an average."

Now, today you were asked by Mr. Facher how you arrived at conductivity figures. You said -- and he said, "Was it an average?"

You said, I believe, "No, it was a representative value."

A That's correct, for Beatrice.

Now, which did you do? That's what I'm interested in.

A Both statements are correct.

In the case of Beatrice, we basically have

one material that we're working with. So the number that I prepared was based on my knowledge of that material as a whole and I didn't go through some kind of arithmetic computation.

In the case of Grace, as you're well aware
I'm sure, the material properties change as you go from the
Grace site down to the well field. Consequently, I
conceived, in different parts, I have a very permeable
bottom, I have a relatively highly permeable middle
section, and then the Grace site itself has a lower
permeability.

So in that sense, I'm combining information on three different materials, and while I can't tell you exactly how I came up with that number, I did some type of averaging at least in my mind of those different values.

Q All right. In other words, you took a certain value for a certain portion of the area between Grace and the wells and you took another value for another portion and a third or fourth value?

Do you know how many values you used?

A Well, as I tried to indicate, it's not a simple arithmetic thing. It's a recognition that we have changes from Grace down to the well field, and it's my recollection that I was conceiving of the system as basically three parts, as I've indicated, the less

permeable Grace area, the quite permeable intervening area, and the extremely permeable bottom area.

Q And I take it that, as you testified yesterday, the calculations that you did, the data that you used which represents that activity that you just described as data, that you did not keep?

A Well, I think that, if I represented my answer as if I sat down and did an arithmetic calculation, that is not in fact how it would go because it's really based on judgment in the sense that you have to weight these values in some way. It really doesn't reduce to a simple arithmetic calculation at that level.

Now, it may happen at the level where I am thinking about, for example, what's the most appropriate value for the Grace site at that point. I may have done some actual arithmetic averaging to come up with that, but --

Q Otherwise it was done in your head, so to speak?

I mean, based on what you sort of feel for the situation?

A Yes, looking at the numbers and looking at the materials, interacting with other computations to bring to bear everything that I think was relevant, that seemed to me at that point in time to be a value that was representative and yet conservative in the sense that it was most --

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concerning how the historic pumping of Wells G and H are,

whether it was affected by the river and whether that

depended on factors such as the permeability of various sections of the aquifer through, as the judge said, which all this stuff is running.

Did you in that connection determine what a hydraulic conductivity figure was for the peat that lay between the river and the wells or in that general vicinity?

A We, in all calculations, would use a value for the entire section. That is, the section from the main aquifer to the river. And in establishing that number, we would be thinking about the properties of the silt -- I beg your pardon -- of the peat. I did not do any tests to establish a particular value for that.

Q Well, when you testified, Dr. Pinder, you testified that there was an envelope of peat that ran down the river, as I understood it, at some point between Salem Street and Olympia Avenue. And, somehow, that envelope of peat acted in a way to retard or keep water from moving from the river.

Do you remember testimony to that effect?

A You used two different words there and perhaps I'm too specific, but retard I think is the appropriate word.

Q All right.

A Because I think that my understanding is that peat, being a highly organic material, is much more effective in

The boring logs indicated that they were something Α in the order of say three to seven feet of peat, and various parts of the valuable wholes had been put in place.

Now, Dr. Pinder, I want to give you the boring logs for Wells 85, 87, 39, 8, 91, 40, 93, 96, 77, and 92. I'll represent to you that in each of these separate envelopes or folders are the boring logs for those particular wells and I'm going to bring you --

You'd like me to go through these?

I think I've highlighted them in yellow just to make it quick.

I want you to tell us what was the peat that those boring logs showed existed in those particular wells which are in the well field of Wells G and H, and I'd like you to start first with Well S-85, which is approximately 300 feet north of Well H.

What does the boring log on Well S-85 tell us about peat?

I'll make it even quicker. It says, "There is no peat," isn't that true?

Well, I was just checking through the ledger to get it perfectly clear in my mind what this was all about, but I think it's fair to say that they have not specified peat explicitly in this S-85.

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           How about S87, which is between S85 and Well 8, what
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      do they tell you about peat at that location?
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           They say -- 87 says peat?
           Yes, how much.
           One and a half feet.
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           It does not say less than one foot?
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           Maybe you see something I don't see here. I mean,
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      that is how I read it. We can go through it together.
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           Where do you see one and a half feet?
      Q
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           The scale over here. (Indicating.)
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           Would the peat be more like less than one foot on this
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      scale I have. This is one and a half feet.
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           No, sir.
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           I will take -- What do you want to say?
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           It is organic fine sand.
      Α
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           One and a half feet?
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           We will take one and a half feet.
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      Q
           What do you have at S39?
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           I would say three feet.
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                      MR. NESSON: S37?
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                      MR. KEATING:
                                    39.
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           Moving down, what do you have at Well 569?
      Q
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           I can guess about five feet. Is that fair to say?
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           Does it say one foot? Approximately one foot of peat
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      at that well?
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Not that I can see.

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Doesn't it say trace peat at a depth of three feet and

then --

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A No, sir.

Q -- and under that it says sandy peat?

A That is what it says. I don't know how you interpret

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it. It means the guy who is on the well, who is looking

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at the cuttings as they came out of the hole, noted peat

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as part of the material coming from the hole.

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Q At what elevation did he notice approximately a foot

of peat?

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A Sir, as I see it, it is probably in the order of five

feet.

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Q You say the reading at S68, Dr. Pinder, says five feet of peat? Is that what your testimony is?

A My testimony is in looking at the document you have put in front of me, there is a notation saying three to five feet, which is the depth. To the right is a notation saying sand, trace of peat. Sandy peat. That, to me, means they were looking at a thickness to three or five feet of peat or sandy peat.

Q Does it actually mean between five and three and -- depth of three and depth of five? There is a foot of peat. Is that in fact what it means?

A No, not my interpretation.

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Q
          How about going down to S8 --
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          It is --
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- -- between Wells G and H, midway between G and H,
- how much peat?
- 5 (Pause.) Α

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- No peat? 6
- It had what they call fill. Exactly what that is, 7
- I don't know. 8
- What does it say about peat, Doctor? 9
- Α I don't think it had any notation for peat at all. 10
- Let's keep moving down. How about S91, which is right 11 next to S8?
- It is difficult to read. Give me a second. Α 13
- Take your time. Q 14
- It is a bit difficult to interpret. I would say it 15
- is -- It will be less than a foot and a half. 16
- All right. Q 17
- Beyond that, I can't really help you. Α 18
- And how about S40? 0 19
- S40, that would be called topsoil. So it may or may 20 not be peat. Let's assume it is not. 21
- It is not? Q 22
- Topsoil is not a geologic definition. Consequently, 23
- I don't know what it constitutes. 24
- Q S40 is Well G? 25

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PENGAD CO., BAYONNE, N.S. 07002 FORM 140
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- 1 A It is two feet, whatever it is. S40 is no peat.
- 2 S40 is Well G, right.
 - Q No poat?

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- A Well, it depends on how you define topsoil. Let's assume it is not peat.
- Q S93, 180 feet west of Well G, what does it say about peat?
- 8 A It says, I would interpret this to be about one and a half feet.
- Q How about S96, which is down south of, about 400 feet south of Well G?
- 12 A Looks like about two feet.
- 13 Q Less than two feet?
 - A I would say less than two feet. It changes at two feet.' I would say it is less than two.
 - Q Going down to S77, what do you have there for peat?
 - A I think this particular driller did not record any peat in any of his logs actually, certainly not in this one.
 - Q I am asking about the log. That is the boring log you referred to yesterday?
 - A Yes.
 - Q It shows no peat?
- 23 A It shows no peat.
- Q Now, S93, S92 is located right here (indicating). What does S92 say about peat?

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It looks like it is about a foot and a half. Α actually, hang on a moment.

My mistake. It looks like it goes down to six.

- That concludes them?
- Yes, sir.

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- Did you consider those boring logs, the ones that I just referred you to, when you determined your permeability, hydraulic conductivity figure for the areas around the wells?
- In the sense of the 75 or 70-foot per day number? Α
- Yes. Q
- No, they don't come into play.
- Did you have those figures in mind when you considered the effect of the peat on the water from the river leaving the river and getting to the wells? In other words, when you told us about the envelope that went down the river and kept things away from the wells, were you considering in that connection the boring logs that I just referred you to?

information

- They were part of the / that I was working with.
- But of all those wells I listed for you, which I think covered most of the ones in this particular area and I represent to you I didn't leave any out because they had high numbers, we find one well, one well that appears to have as

much as six feet of peat; and most of them have either no peat or one and a half feet or less than one foot; is that true?

A I think that your observations and numbers put in there are as you stated them. I think that you have to look at these logs and see no peat because they happen to be

NUS logs and it may be this particular driller, for whatever reason, had selected not to make that specific notation.

But physically, if you think about it physically, peat is going to be a relatively continuous material geologically, unless someone basically comes in and digs it out. So I won't -- I would interpret on the basis of my understanding of physical systems, if you were to put a hole anywhere in the area that we have had peat indicated, it would, in fact, be there or very near it.

Q But you have no -- You don't know who these diggers were or what they did or, you have no idea whether they kept peat in or kept peat out? You are relying upon this form, these boring logs, and they're part of the 12,000 documents and all that? The document says, does it not, peat, it says no peat? Is that -- Is there a question in your mind about that?

A I think there is very much a question in my mind about that. Because it does not say that, it does not mean that is true. It may mean that particular individual sitting

on that particular well felt the notation of peat was not of geological relevance.

- Q What are we supposed to rely on?
- A Experience, judgment, and understanding of the kinds of logs that the drillers provide, and I have done that for many, many years.
 - Q You have never done it in the Aberjona River Valley for many, many years; is that true?
 - A It is a fairly consistent breed, whether in the Aberjona River Valley or Muscadaba River Valley. I think the reality of the situation is you have a relatively continuous peat bounded along the valley sides. I think it is geologically consistent and logical. I think there is probably some excavation around the wells that have come out in testimony here in the courtroom, but it would be my best understanding that that peat is not going to be splotchy, you will have some here and some here.
 - You have no other form on which you can base that opinion, except for your education, your experience, but nothing from this particular area between Olympia Avenue and Salem Street, other than those documents which I just put in front of you?
 - A Yes, sir, I think I have used those in a way that is consistent in my opinion. I don't feel uncomfortable with them. The two logs you pointed out happen to be devoid of

peat, if I am not mistaken, where the same driller, NUS driller, he didn't say no peat; he just didn't record it.

- Q He didn't say no oil, no diamonds, no anything? He didn't list peat?
- A That is where experience and judgment become important.
- Q So I hope you are not suggesting whenever we have any data from NUS, which comprises a great part of what that information in those boxes are, EPA review, geohydrologist lab or whatever they're called, we have to look at that data with great suspicion because maybe their people don't do things the right way.
- A I think when you look at any data, you have to look at it in context. My feeling is, while I am prepared to assume with you anything you wish, it would be my feeling in this particular matter that these two logs that happen to not indicate specifically peat, in fact, only one notation for the first five feet, simply would be interpreted, to me, if they were within that range of the area where you found peat, in all likelihood, would have had some peat at the well or very nearby.
- You can point to no imperical, physical, scientific data that supports the conclusion in the statement you just made? It is something you devined?
- A No, sir. I am afraid I don't agree with you at all.
 When you have organic growth on an area of the same elevation

MR. SCHLICHTMANN: No me and no sound.

I saw the latest version. I think I have to re-edit it a little more. I think they missed a couple points. I can do that and I'll provide a copy.

MR. KEATING: Could I just see it ahead of time?

MR. SCHLICHTMANN: Yes. So I will try to get a finished version of that.

THE COURT: Do you think you'll finish up on Wednesday or Thursday?

MR. SCHLICHTMANN: Yes, that's quite possible.

MR. KEATING: Your Honor, may I make a point on this, not really to make an argument, but we might consider, there is a great deal of what Mr. Drobinski's going to testify to which is going to be confirmed by our own Drobinski-type when he goes on the stand. In other words, I don't think it's -- I'm not trying to short-cut Mr. Schlichtmann, but I just think that I want you to know that what he has for water quality analyses will be confirmed by some of our witnesses.

THE COURT: Why don't you put it in by stipulation?

MR. KEATING: I was trying to think of some way we could at least cut down on some of this.

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I think for Mr. Schlichtmann, for dramatic reasons or whatever for some of this, he may have used maximums and our guy may have used an average, but there's no real questions about the contamination being there, and so maybe it's a little different than the Beatrice sites where there was situations of was this barrel a barrel or was this beer can a beer can or something. I don't think that's going to be an issue too much with us. So I don't know, there may be opportunities to cut it down. I'll tell you one thing, there is no beer can on the Grace site. THE COURT: Well, if you can work it out between you, I think that's fine. So there is Drobinski. There is a contractor?

MR. SCHLICHTMANN: Manzelli.

THE COURT: Who's going to come in and say
he did that job and give the date of it or something. He's
going to be on and off quicker than he's going to be able
to say Jack Robinson.

MR. FACHER: Are we going to have Harris or not? I have a suspicion I'm never going to see Harris, which is all right with me.

MR. SCHLICHTMANN: I'm going to be very candid with the Court, the issue really comes down to

Dr. Harris would be testifying on state of knowledge or 2 state of art. 3 THE COURT: State of his knowledge: No, it's state of MR. FACHER: 5 somebody else's knowledge. 6 MR. SCHLICHTMANN: I know Mr. Facher will 7 cross-examine and say, "You weren't alive in 1955," or 8 whatever. 9 THE COURT: Why, how old is he? 10 MR. SCHLICHTMANN: Well, he was six years 11 old then or whatever. 12 THE COURT: Well, the state of knowledge 13 of whom, I suppose, hydrologists and geologists or --14 MR. SCHLICHTMANN: Yes, scientific in the 15 engineering community. 16 THE COURT: That's not going to help you 17 very much with respect to --18 MR. FACHER: Riley? 19 THE COURT: -- Riley, is it? 20 MR. SCHLICHTMANN: No, I think what it 21 really comes down to is that we intend to put in various 22 rules and regulations and there are certain statutes, and 23 I think that that would again, in the sense of being 24 candid so we can talk about scheduling, is that depending 25 upon what happens with our ability to put in the rules and

regulations and statutes, will depend upon whether there is really going to be a need, evidentiary need to bring in Dr. Harris or perceive a need to do so.

So I think what I'm saying to the Court,
I know we have to give 48 hours' notice, but to be very
candid, to go to the rules and regulations and the statutes
on the issue of foreseeability and --

THE COURT: Doesn't go to foreseeability.

MR. SCHLICHTMANN: Under rules and regulations. Foreseeability about injuring the public health by engaging in certain kinds of conduct.

THE COURT: Doesn't go to foreseeability.

MR. SCHLICHTMANN: Well, our position then in violation of the statutes --

THE COURT: Evidence of negligence, but it doesn't go necessarily to foreseeability. The question of foreseeability is, as I see it, is twofold from -- if you're talking -- it's a one-dimensional foreseeability for Grace. That is, was it foreseeable that the stuff would escape and go somewhere where it would poison people. There's a second element. Well, not necessarily foreseeability. That's really not a complete description of it, but on Riley's case, even assuming that a careful person should have walked this property once in a while and observed the debris piles which he says were

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there a long time, and the barrels which he says he didn't observe, how is he supposed to conclude from that that there was pouring of liquids onto the ground? Because as I get your testimony, and I think I was following it, but a lot of times the diagram was faced towards the jury and I didn't see it all, but I get it very clearly that the sites of concentration of complaint chemicals on the Riley land are not particularly at the barrel sites and not, as a matter of fact, in the centers of the debris sites but off to the side close to the debris sites but not particularly related to the barrels, which suggests to me that it's not there because barrels were placed there and decayed, and this stuff fell out the bottom. But somebody came along with barrels of or containers of this stuff in some quantity, and we don't have any idea of quantifications, which is disappointing, and just poured it on the ground.

of gunk.

THE COURT: Assuming the jury finds a prudent property owner at least walks up and down the place once in a while and looks for what is going on, how is he supposed to have known that this stuff was poured on the ground?

MR. SCHLICHTMANN: I guess the issue is that based upon what the jury knows about the state of the property is a reasonable inference is this prudent property owner, if he sees drums of materials on the ground and sees sludge from the sixties --

MR. FACHER: I did want to --

THE COURT: This is really -- You have evidence

MR. SCHLICHTMANN: Sludge.

THE COURT: Not necessarily, not identified in any way.

MR. SCHLICHTMANN: Things oozing from drums.

THE COURT: The point is the stuff that oozed out of the drum is not identified with the stuff that caused the harm in this case.

MR. SCHLICHTMANN: The issue is --

MR. FACHER: Nor is in the wells.

MR. SCHLICHTMANN: It comes down to what is the reasonable inference the jury can take from the evidence as to what a reasonable property owner should do when, one,

1	he is put on notice by the Department of Health that
2	industrial refuse, wastes should not be dumped on the ground
3	on that site because of danger of polluting the groundwater
4	is against the law and
5	THE COURT: He didn't do that.
6	MR. SCHLICHTMANN: He is on notice he should
7	not do that.
8	THE COURT: He didn't do it. There is no
9	evidence he did do it.
10	MR. SCHLICHTMANN: Well, there is notice these
11	things took place.
12	THE COURT: He may be put on notice someone
13	did it. There is no evidence in the case any of this, at
14	least any of the there was any intentional placing
15	of industrial waste on this site.
16	MR. SCHLICHTMANN: By the tannery, I think
17	you are correct.
18	THE COURT: There may have been some
19	accidental spills from the sewer, the sewer splashed up,
20	a little bit of this.
21	MR. SCHLICHTMANN: Drainage from the
22	THE COURT: Bovine dandruff.
23	MR. JACOBS: Buffing dust.
24	THE COURT: That is generated from the
25	process.

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MR. SCHLICHTMANN: The latest results from G and H do show buffing dust. 2 MR. FATCHER: I am sure John will work it in 3 somehow. 4 MR. SCHLICHTMANN: It had a buffing dust-5 like smell. 6 MR. FACHER: It was not my intention to 7 give Mr. Schlichtmann a preview, only to --8 THE COURT: You have hardly concealed your 9 strategy. And, indeed, it pops right up. 10 Unforeseeability on the water, the position 11 is reversed. At least a jury could find, I think, that 12 and these are tentative thoughts. You will have a chance 13 to argue. 14 Sometimes it is useful, I think, if the 15 judge, rather than sitting up with a grave stoneface, gives 16 an idea what he is thinking about. Obviously I have been 17 paying attention, trying to. 18 There is this one little scrap that 19 seems to me that may be putting Riley on notice, and that 20 is when the well digger, the fellow who maintains his 21 wells --22 MR. SCHLICHTMANN: Maher. 23 THE COURT: -- Maher says the water table is 24

going down around here on your property because of those two

new wells that the town had put in over there. Now, I suppose that is enough to go to the 2 3 The other part is here is the City of Woburn, who is, whose people are walking the Riley property every year or 4 so to check, repairing the manhole covers and so on. 5 MR. SCHLICHTMANN: One would think that I were --6 THE COURT: That must have been --7 MR. SCHLICHTMANN: One would think that I 8 did --9 THE COURT: The manhole covers got repaired. 10 We know that. There is evidence they overflowed and there 11 was cleaning of the city sewers. 12 MR. SCHLICHTMANN: Mr. Riley did talk about 13 that. 14 THE COURT: So city people were --15 There was vandalism that was MR. FACHER: 16 repaired. 17 THE COURT: I think it is clear the city still 18 owns, that it was a fee. I think the deed is controlling 19 on that point. 20 MR. SCHLICHTMANN: Part of that property, 21 yes. 22 THE COURT: So there was the city knowing at 23 least about the property, as Riley did, and they go over 24 there and put these, they sink these two wells long after 25

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whatever pollution is supposed to have occurred occurred, which is --

MR. SCHLICHTMANN: Horrifying.

THE COURT: -- horrifying.

MR. SCHLICHTMANN: In addition to that --

THE COURT: If all of this was generally available, if this knowledge is generally available, this is the problem. They didn't have the gas/chro --

MR. FACHER: Gas chromography and mass spectrometer.

THE COURT: -- at that point, so apparently there was no way.

And then the DEQE comes barreling in there in '78 and says throw in another one, having already written nasty letters to Riley.

MR. KEATING: I don't mean to argue, there is in sixties, '68, '58 they said don't put it in there. It may go flip flop.

THE COURT: So this is all jury stuff, as far as I'm concerned.

Without doing some rather wild speculation, you have to be prepared to tell me how it is that Riley should have known, as a prudent person, that someone was putting toxic material likely to travel on his land. And I think that is the toughest problem.

I also think that probably as to Riley, this is just a preliminary thought, you can tell me differently, and I think this is different from Grace, too, that the Rylands vs. Fletcher situation does not apply. It seems to me the Rylands vs. Fletcher situation involves the purposeful placing of something on the land that later escapes. I think all of those cases, and this distinguishes these cases from negligence -- there wasn't negligence; it was a purposeful placing of something on the land which later escaped for any reason at all.

MR. SCHLICHTMANN: Right.

THE COURT: And they don't -- and the landowner is liable.

That may be something that Grace will have to worry about.

MR. KEATING: I am curious what is the distinction.

THE COURT: Purposeful placing.

MR. KEATING: I see.

MR. FACHER: Use of chemicals.

THE COURT: There is no question what you did you did on purpose. You funnel it out and therein, splat, in the ditch.

MR. SCHLICHTMANN: The standard is one of benefit, benefit to land owners.

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THE COURT: It may be, there had to be some purposeful act. If there is benefit, there is no benefit to Riley. So I am inclined to think if Riley goes to the jury it will go on the negligence issue only or something.

MR. SCHLICHTMANN: Nuisance would always be

MR. SCHLICHTMANN: Nuisance would always be included.

THE COURT: It is the same. It involves failing to do something you ought to do. I don't see that in terms of presentation of your case. It is different from negligence as a practical matter. I must say I never thoroughly understand all of the ramifications of nuisances, private versus public, in Massachusetts law. I doubt that I will understand it when I come to the end of this case.

MR. SCHLICHTMANN: Even with our help.

MR. JACOBS: It is the same as negligence.

THE COURT: Even with your help.

MR. FACHER: Especially with our help.

MR. SCHLICHTMANN: Right.

of confusion about it. They say different things when they're trying to accomplish different purposes. You want to get into it, fine; but I don't see how you are improving your lot any as far as making your case. The Rylands vs. Fletcher situation and the Grace case are certainly a matter that can be considered. I take it Grace is not

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seriously considering a motion at this point.

MR. KEATING: Well, in fact, I can't say at this point because I didn't hear Mr. Drobinski. But I think there may be somewhat similar bases to what Mr. Facher suggested.

THE COURT: So to get back to the question of scheduling, which is what took me off on this toot --

MR. SCHLICHTMANN: It is all --

THE COURT: -- is the significance

of these ordinances and so on. Just going briefly through the batch you have put into a binder for me, I think some of them have to do with purposeful conduct and others may be quite remote from the facts of the case. And I don't know even, assuming that I permit them to become evidence in the case, you may argue violations as evidence of knowledge. It had to be some kind of causal relationship connection. And I think there may be a problem. I don't think they will carry you as far as foreseeability is concerned. It seems to me they don't go to that point. So that if you are relying heavily on those things, you might want to think about that some more.

MR. SCHLICHTMANN: All right.

MR. FACHER: That leaves us in a quandry about Dr. Harris. But are we safe from Dr. Harris for next week or not?

matters I want to raise. I didn't know we were arguing the motion for directed verdict.

MR. NESSON: I am anxious about what the judge said.

MR. FACHER: You want something to illustrate his testimony?

MR. NESSON: Am I right, what you are saying is foreseeability, you have to say foreseeability as to what. You can actually parcel that out. One element of foreseeability is Riley foreseeing that someone was dumping stuff on his land.

THE COURT: Bad stuff, something more than old barrels.

MR. FACHER: Like what is in this case.

THE COURT: Like what is in this case, not necessarily identical.

MR. NESSON: Someone is dumping bad stuff.

THE COURT: Liquid that will seep in, not just old, empty barrels.

MR. NESSON: The statutes don't help at all.

The second thing would be once, if you get over the first one, someone is dumping bad stuff on the land, he then had to foresee that somehow bad stuff dumped on the land could affect --

THE COURT: The public.

1	and think about it. Certainly, yesterday it would have
2	been a dramatic time to present it.
3	THE COURT: I was sitting here.
4	MR. FACHER: I did not
5	THE COURT: I am waiting for a motion and I
6	waited for a while and I didn't hear one.
7	MR. FACHER: I didn't know you were there.
8	MR. SCHLICHTMANN: He was hidden by the chalk
9	you wanted to strike.
10	MR. FACHER: Right. I was behind it.
11	Anyway, since we have daily transcripts
12	THE COURT: I was behind the door when the
13	motions were passed out.
14	MR. FACHER: I think that is still, whether
15	time passed or not, is still a viable matter
16	THE COURT: Time does not pass.
17	MR. FACHER: to be working on that.
18	MR. KEATING: Could I say a word? My position
19	is the same. I wanted to wait to read the transcript.
20	MR. SCHLICHTMANN: We have no objection to a
21	time issue.
22	MR. FACHER: I didn't expect there was.
23	THE COURT: You can bring a motion when you
24	are ready.
25	MR. KEATING: Can I mention one other thing

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related to that? I don't mean to cause a fuss over something.

Coming out of the Superior Court practice a little bit, I was very surprised that anything was done, even if it could be something undone with a document that had been used in the courtroom --

THE COURT: So was I.

MR. KEATING: I can recognize you can undo it. I know it was not permanent.

THE COURT: I made an order on that yesterday.

MR. KEATING: I hope that we --

THE COURT: This is not to be altered.

MR. KEATING: That is all I want to say.

MR. SCHLICHTMANN: I appreciate your

concern. It was not in the spirit of altering.

THE COURT: I understand.

MR. KEATING: I think --

THE COURT: As a matter of practice, if you are going to change something, make it in the form of a motion and let us all know about it. If need be, be done in front of the jury.

MR. SCHLICHTMANN: Counsel were fully aware.

It was happening in their presence, Mr. Facher actually watched.

THE COURT: Of course, he did. He screamed

all over the place about it. MR. FACHER: I did watch it. 2 That is all, I had a minor correction 3 that I saw if you want it. The witness's testimony, and 4 I don't think he said, "The other well is either of no 5 information or consistent with the breakwater level." 6 I think he must have said groundwater level. 7 Did he say breakwater? 8 MR. JACOBS: Breakwater is a new form of 9 dance. 10 MR. FACHER: It was in response to your question. I suspect he said ground. I don't know why 12 "break" would be there. 13 MR. SCHLICHTMANN: I don't remember him 14 saying breakwater. 15 MR. FATCHER: It is the witness rather than 16 the Court. You were asking him what form --17 THE COURT: Breakwater does not sound 18 like groundwater. What would breakwater be? 19 MR. KEATING: Should we keep pretty good 20 notes? I could ask -- I don't have the notes here. 21 We could --22 THE COURT: Was the gradient level? 23 MR. FACHER: It is possible. He does not 24 speak that way. He never says level. Gradient is a --25

he talks about gradient as a noun. MR. KEATING: I would be happy to check our 2 rotes. 3 MR. FACHER: It is not vital. MR. SCHLICHTMANN: I could check with him, 5 too. MR. FACHER: I think he meant groundwater. 7 THE COURT: He will be in Europe before then. 8 MR. SCHLICHTMANN: That is true. 9 MR. FACHER: He is halfway there already. 10 He knows what is good for him. He is gone. 11 THE COURT: Madam and gentlemen, have a 12 good weekend. 13 (Whereupon, the 49th day of trial was concluded.) 14 15 16 17 18 19 20 21 22 23 24 25