

1 MR. SCHLICHTMANN: Thank you.

2 Your Honor, Mr. Foreman, ladies and
3 gentlemen of the jury, fellow counsel, ladies and gentlemen
4 of the Court, the evidence for this part of the case is in
5 and it is now time for us to hear from you about some very
6 important decisions that have to be made. You're going to
7 have to make a statement about the defendants' conduct.
8 You are going to have to determine if what they did was
9 wrong, and you're going to have to determine if what they
10 did resulted in the pollution of Wells G and H.

11 And I don't have to tell you that this has
12 been a very long and difficult trial. I want to say on
13 behalf of myself, on behalf of cocounsel, on behalf of the
14 families, I want you to know that we appreciate that you
15 have made many sacrifices to be here. I want you to know
16 that we appreciate those sacrifices that you have made to
17 sit here and listen and decide.

18 Unfortunately, in this phase of the case
19 you didn't have an opportunity to meet the Andersons, or
20 the Zonas, or the Gamaches, the Aufieros, the Kanes, the
21 Toomeys, or the Robinsons. You are going to have to make
22 a decision in this case, in this phase, without having
23 heard what happened to them.

24 I have noted that during this trial you
25 have been extremely attentive to the evidence, and I have

1 also noted the strain on your patience when the evidence
2 didn't quite go in as quickly as perhaps you would have
3 liked or that there were various legal issues that had to
4 be resolved. We appreciate your patience and your
5 understanding.

6 As you will learn, some evidence in the
7 case has been stricken, evidence that you will no longer
8 give consideration to, but I want you to know that much
9 evidence remains, more than enough evidence to make the
10 judgments that count in this case.

11 In this phase, you are going to be asked
12 to hold these companies responsible for what they did, and
13 in the next phase you are going to find out what happened
14 to these families because of what these companies did, and
15 you are going to make a decision about what should be done
16 about it.

17 Now, that is a tremendous responsibility
18 that our society gives you. I can't think of anything,
19 any responsibility that our society will give you that will
20 have a greater impact on the members of our community than
21 the decisions that you will make in this case.

22 Now, because the defendants have denied
23 that what they did was wrong, you, on behalf of society,
24 have to declare that it was wrong. And because the
25 defendants have denied that what they did poisoned the

1 community, you have to declare that it did, and you must
2 declare the depth and the degree of the suffering caused
3 this community because of it.

4 Now, some words were said about sympathy.
5 I want you to know that the families have traveled a very
6 long road to get into this courtroom. They didn't come to
7 this courtroom for your sympathy. See, the families have
8 all the sympathy that they need. They have enough sympathy
9 to last them the rest of their lives. They didn't come here
10 for that. They came here for one thing, they came here
11 for justice. Justice for the children and justice for the
12 parents, as justice must be done for any child or any
13 parent of any family who needlessly suffers because of a
14 company's failure to care.

15 Now, justice is a judgment that although
16 what happened in Woburn was needless, it did not have to
17 happen, it was not meaningless. There must be meaning to
18 this tragedy. Justice will not be done with one verdict
19 in one phase.

20 To do justice, you have to do that based
21 on the evidence.

22 Now, we have presented to you a lot of
23 evidence, the testimony of witnesses, the testimony of
24 experts, and diagrams and chalks and documents, and the
25 defendants, they have given you the testimony of witnesses

1 and experts and diagrams and chalks and documents, and they
2 have brought things into court, they brought muck from the
3 river, and they brought sewerage, the smell, but they gave
4 you something else. The defendants gave you the reason
5 why you must do justice in this case.

6 You see, during all the days and all the
7 weeks and all the months the defendants didn't give you
8 the one thing that you as jurors deserve. They didn't give
9 you the truth about their role in the pollution of Wells G
10 and H, a truth which they are in the best position to tell.

11 In this trial the defendants' conduct was
12 on trial, but something else was on trial. The defendants
13 put the corporate community on trial, and the evidence is
14 that the corporate community has a lot to be proud of in
15 this case.

16 The corporate community can be proud of
17 how it has used its freedom to profit and prosper. It may
18 be proud of all of the goods and services that it has
19 provided to all of us, it may be proud of the jobs that
20 it has created, and it may be proud of the vast resources
21 of talent and knowledge that they have accumulated. And
22 the corporate community can be proud of those companies
23 that recognize that with this freedom comes responsibility,
24 responsibility to the community.

25 The corporate community can be proud of

1 those companies that understand that profit must never come
2 at the expense of a community's health. The corporate
3 community can be proud of environmental consultants, which
4 they have used to advise them as to how to use their property,
5 and the corporate community can be proud of their use of
6 their resources, those companies that did, to identify and
7 discover and rectify conditions on their property which
8 endanger the community's health. All of these things the
9 corporate community can be proud of.

10 But, unfortunately, in this case there are
11 so many things that the corporate community cannot be
12 proud of. The corporate community cannot be proud that
13 Beatrice Foods and W. R. Grace allowed their properties to
14 be used as toxic waste dumps. The corporate community
15 cannot be proud of these two corporations' complete
16 indifference to the harm caused this community by their
17 property.

18 The corporate community cannot be proud
19 of these two companies' failure to use their resources to
20 have prevented this harm, and they may not be proud of
21 these two companies' use of environmental consultants not
22 to learn but to mislead.

23 They may not be proud of these two
24 companies' failure to acknowledge to governmental agencies,
25 to the families or to you the true role that they played

1 in the pollution of Wells G and H.

2 MR. FACHER: I object, your Honor. I don't
3 think that is part of this case.

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1 The objection is sustained. I think you
2 are really required to relate your argument to the
3 allegations in evidence in the case.

4 MR. SCHLICHTMANN: Yes, your Honor.
5 I believe there are evidence as to those.

6 THE COURT: Corporate is evidence.

7 MR. SCHLICHTMANN: The corporate community
8 cannot be proud of Beatrice Foods and W. R. Grace's
9 failure to admit to you an obvious wrong.

10 MR. FACHER: Objection, your Honor.

11 THE COURT: Overruled. MR. SCHLICHTMANN:
12 community cannot be produced of these two companies'
13 attempt to avoid responsibility in this case by denial
14 and wrongdoing.

15 MR. SCHLICHTMANN: Now, they say that what
16 they did was okay because everybody did it. But
17 when they say that, they insult every company that cared.
18 Every company that cared as much for the quality of their
19 waste as they cared about the quality of their product.
20 Every company that cared as much for what was going
21 out the back door as what was going out the front. Every
22 company that cared as much about what was happening on
23 their property as what was happening in their plant.
24 Companies that understood that ownership of land is a
25 trust. It's not a license to destroy or to allow

1 others to destroy. And companies that understand
2 that property isn't just there to be exploited but to give
3 back some care. W. R. Grace and Beatrice Foods would
4 have you believe that what they did represented the best
5 of the corporate community.

6 The evidence is that in some respects,
7 in this case, it represented the worst. Now, they say
8 they care. But did they care about the community's health?
9 If you look at the site map of the Beatrice property
10 and you look at the site plan of the Grace property,
11 and you look at the pictures of what was found on the
12 Beatrice property and what was found and dug up on
13 the Grace property, do you get the impression in looking
14 at those things that these are the properties of companies
15 that care about the community's health and how the condition
16 of their property may affect it?

17 You went on the view. You went to the
18 Beatrice site and you saw drums, piles of drums, and you
19 saw places where drums had been mapped by Weston Geophysical
20 that are not there now. You went on the Grace site and
21 you saw the picnic tables next to the monitoring wells
22 and the tomato gardens next to the dumping grounds.

23 I think that you had an opportunity to view the
24 property and form a conclusion as to whether this
25 represented the property of companies that cared.

1 Now, what would a responsible company have
2 done that was in the position of W. R. Grace or Beatrice
3 Foods? What would a responsible company have done in
4 W. R. Grace's position? Well, the first thing they would
5 have done is they would have trained their managers,
6 their plant managers, as the proper ways to dispose of
7 waste. What did W. R. Grace do? They put Paul Shalline
8 in charge of environmental matters. He said he appointed
9 himself. No training. They put Vinny Forte in charge
10 of the plant, a man who professed complete ignorance
11 about his plant disposed of their waste.

12 And, yet, we heard from Mr. Manzelli that,
13 in fact, Mr. Forte contracted with Mr. Manzelli to
14 dispose of some waste at the Grace property, a little
15 waste, in a pit. A responsible company in Grace's
16 position would have promulgated an environmental policy
17 that made it absolutely clear you don't dispose of waste
18 solvents on the ground, down storm drains or into pits.

19 What did W. R. Grace do? W. R. Grace
20 considered adopting an enlightened environmental policy.
21 It's in evidence. If they had, maybe many of the things
22 that took place at the Woburn Plant wouldn't have
23 happened. Well, they considered adopting such an
24 enlightened policy and then promptly rejected it.

25 A responsible company would not need to

1 have been told by Thomas Barbas, "Hey, this is wrong
2 to dump this stuff on the ground." But the evidence is
3 W. R. Grace needed Tom Barbas to tell them it was wrong.

4 And then what did they do? They made
5 Tom Barbas one of the dumpers.

6 A responsible company would have had
7 their waste hauled away. But what did W. R. Grace do?
8 The waste that wasn't dumped on the ground, that wasn't
9 dumped into drainage ditches, was accumulated into drums
10 and then the stuff accumulated into drums was dumped
11 into pits. A responsible company would have understood
12 that protection of the environment is an obligation of every
13 one of us, including business.

14 Well, how did W. R. Grace feel about that?
15 How did W. R. Grace look at the issue of environmental
16 protection? Well, it's in evidence. We have the memo from
17 1967. Their concern was that the government was getting
18 concerned and when the government gets concerned, that
19 could be bad for business. So what did W. R. Grace
20 recommend to its plants? It said, "In those areas where
21 we may have problems, there will be some benefit in getting
22 some representatives of the company to serve on local
23 boards, simply to keep abreast of the role matter on
24 enforcement of whatever laws there may be and, in
25 some cases, helping to write the legislation which may

1 be involved in establishing standard enforcement."

2 And they directed the plant to the public relations and
3 local politics department.

4 During my examination of Mr. Morrill, he
5 stated they never adopted this policy. But on cross-
6 examination some attempt was made to say that they did,
7 they did promulgate a policy. And you will get to read
8 that policy. And you will see that the environmental
9 policy that they did implement stated, "Where governmental
10 agencies are making us clean something up, we better
11 cooperate and this is a matter for the legal department
12 and the public relations department."

13 For W. R. Grace, the ecology movement was
14 adversely affecting business and so the message to the
15 plant was: Don't spend money. We got a special procedure
16 here. If there are any plants out there that want to
17 spend money, we have a very special procedure. You
18 have to follow that -- We know that Mr. Forte got the
19 message -- Don't spend any money -- from his memo which
20 is in evidence. We don't have any pollution problems
21 here. We don't spend any money. And a company that was
22 responsible, in W. R. Grace's position, would have obeyed
23 whatever public health laws or environmental laws there
24 were.

25 And as Mr. Morrill said, you shouldn't have

1 to wait for a law. There are certain things that a company
2 should do, which just make good engineering practice,
3 that makes good sense. And even if there isn't a law,
4 you should do them.

5 Now, his Honor is going to instruct you
6 about some laws that during this period of time in the
7 1960s and the 1970s dealt specifically with the kind
8 of conduct that we have in this case, and his Honor
9 has the duty and obligation to tell you what the law
10 is. But it is your duty and obligation to apply that
11 law to see if it applies to the conduct in this case.
12 And, if it does, you can take that into account in
13 determining whether this company cared.

14 Now, they kind of argue that those laws
15 don't apply. But when you're making a decision about
16 whether those laws apply, ask yourselves this
17 question: Would it have made any difference to W. R.
18 Grace whether the law applied or not? Would it have
19 changed any of their conduct? Would they have done any-
20 thing differently?

21 How about Beatrice Foods? What would a
22 responsible company in the position of Beatrice Foods
23 have done? Well, a company in the position of the
24 Riley Company, who has property next to a town's drinking
25 water supply, wells of a town's drinking water supply, would

1 take care that its property was not used as a dumpsite.
2 A company, a responsible company in Riley's position,
3 would have inspected the property and would have been
4 concerned when they noted drums and tanks and chemical
5 sludges and pesticide caps and debris and oil stains.
6 They would have been concerned about that. And a company
7 in Riley Leather Company's position would have been
8 concerned that they would have done whatever was necessary
9 to keep people from dumping on that land. Put up a
10 fence. Do whatever else was necessary to protect the
11 land from abuse.

12 Now, his Honor will instruct you that
13 the Beatrice Foods Company is responsible for the acts
14 of the Riley Company because they merged with the
15 Riley Company in 1978. They assumed all the assets and
16 they assumed all the liabilities. Merged one into the
17 other. But you can ask yourselves: Would it have made
18 any difference if Beatrice Foods had purchased the
19 Riley Company and the 15 acres in 1958 instead of 1978?
20 Beatrice Foods showed that it didn't care when it bought
21 the company and didn't care about the condition of the
22 property, didn't care that it had been used in the past.
23 And Beatrice Foods showed it didn't care when it continued
24 Mr. Riley in his position and made his policies thereon.

25 Who was this Mr. Riley and what were these

1 liabilities that Beatrice Foods embraced? Mr. Riley was
2 a man who refused to see what was plain to the eye of an
3 observer at thousands of feet up in the air. (Indicating.)
4 Mr. Riley is a man who refused to see what Mr. Caine
5 saw when he saw drums by the pump house. And Mr. Foley
6 saw when he saw debris by the pump house. What Mr. Day
7 saw when he saw drums and debris and sludges on the
8 property. Who refused to see what Mr. Camerlingo
9 saw, the man who came from the Whitney Barrel Company
10 to dump Mr. Whitney's poisons on the ground.

11 MR. FACHER: I object. Characterization.

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1 THE COURT: Well, as my notes indicate, as
2 a characterization by an advocate in this case is not
3 improper. I will let it stand.

4 MR. SCHLICHTMANN: He would have seen what
5 Mr. Camerlingo saw, and he would have seen what
6 Mr. Camerlingo did.

7 And Mr. Riley refused to see what David
8 Constantino saw when he was a young boy when he went through
9 the 15-acre site. And he refused to see what Mr. Kelleher
10 saw, the man from the DEQE, in 1980 when he visited the site.
11 You have a copy of his report. When he saw all the drums
12 and sludges that were there, some recently and some for a
13 long time, and he would have seen what Mr. Drobinski saw,
14 when Weston Geophysical went and mapped the site, and he
15 would have seen even what Mr. Maslansky saw when he took his
16 walk down the access road. But Mr. Riley saw nothing,
17 smelled nothing, said nothing, did nothing.

18 Now, why didn't W. R. Grace and Beatrice
19 Foods care? Was it that they didn't think these chemicals
20 were dangerous?

21 MR. Morrill, who was an MIT graduate, a
22 man who graduated in chemical engineering from MIT, he
23 knew about solvents, he knew about their dangers, he was
24 familiar with trichloroethylene.

25 W. R. Grace had the benefit of a letter from

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1 their insurance company in 1964, certainly making it clear
2 that trichloroethylene, like other chlorinated hydrocarbons,
3 can cause neurological damage, heart problems, addiction,
4 and cardiac death, as well as skin problems and detailed
5 the kinds of precautions that should be used by a company
6 that was interested in the safe use of that chemical.

7 And W. R. Grace considered trichloroethylene
8 to be a hazardous substance. It is in Mr. Shalline's memo
9 in 1979. He puts trichloroethylene right at the top of the
10 list, right above cyanide.

11 And W. R. Grace knew in 1973 that
12 governmental regulations were going to come out, special
13 medical -- physical examinations had to be taken of
14 employees who were exposed to the material, and they,
15 therefore, advised their plants to stop using it in '73,
16 to phase it out.

17 Of course, we all know in 1975 they told
18 the companies, the plants, to stop using it immediately
19 because it is so dangerous and because it can cause or
20 suspected to cause cancer.

21 Now, Riley and the leather company were
22 certainly familiar with solvents. They used them. We
23 heard about how many solvents that they used on a yearly
24 basis, how many drums they go through. In fact, they used
25 some of the solvents involved in this case, they admitted

1 to that.

2 They told us they had a whole library at
3 the leather company, that there was material there from
4 manufacturers about their chemicals. They had Mr. Kaine,
5 of course, who is a chemist, so they certainly were in a
6 position to be fully aware and informed about the qualities
7 of these materials. They didn't care because they didn't
8 know it was wrong to dump the stuff on the ground because
9 Mr. Riley tells us that he understood that the dumping of
10 chemical waste on the ground could pollute the water table.
11 He said he wasn't a geologist, but he imagined it could.
12 He understood that the dumping of chemical waste or industrial
13 waste on the 15 acres was incompatible with having a well.

14 He says, why would we do it? The well is
15 our life's blood. And he said that if he knew about it, if
16 he knew there was dumping going on in his property, he said,
17 "I would have stopped it." It is certainly an indication
18 that he knew it wasn't the proper thing to do or proper use
19 of the land. In fact, he stated the 15 acres was not an
20 appropriate place as an industrial waste dump.

21 Now, W. R. Grace, Mr. Morrill, told us
22 that he understood dumping of chemical waste on the ground
23 can pollute the groundwater and that there is all sorts of
24 things that you would have to do for good engineering
25 practice before you could dump on the ground because of its

1 danger of polluting the groundwater.

2 And Tom Barbas went to Mr. Shalline and
3 he told him, young Tom Barbas, he said, "Look this is wrong,
4 we shouldn't be dumping this on the ground; it is like
5 gasoline, it could hurt people."

6 And it wasn't that these companies were
7 not in a position to know that their activities posed a
8 threat to the community's health. There was the state law
9 that his Honor will tell you which prohibited companies
10 from allowing their properties to discharge into a public water
11 supply. Were these companies ignorant that groundwater
12 could be used as a public water supply? Mr. Shalline said
13 that he was aware that the city of Woburn from the 1960s was
14 using water from the ground that

15 it had wells where it got water from the ground and
16 Mr. Riley certainly said he knew when the City put their
17 wells in in 1964, and it was just 600 feet away from the
18 marsh and there were buildings there and in the winter,
19 when there wasn't any foliage, I think maybe he would have
20 also seen how close they were. He didn't have to see them,
21 he knew they were there.

22 They act as if had they known that the
23 City's -- that their land was polluting the City's wells,
24 they would have stopped. But if that were the case, if
25 that is what they were telling us, had we known, we wouldn't

1 have done it. Well, why when they decided to dump on the
2 ground, why didn't they say to themselves: Hey, maybe we
3 ought to check out whether something could happen to this
4 stuff. It is going into the groundwater, and there are
5 groundwater wells around here. I mean, the area was a rich
6 aquifer.

7 Mr. Riley had his wells there, the City was
8 using it. There are reports in evidence, talking about all
9 the other industries that were using the rich aquifer area
10 of the Aberjona River Valley for wells, so if the company
11 should have been concerned and said to themselves: Well,
12 let's check it out. And if they had checked it out, they
13 would have found out that there were City wells and they
14 would have checked it out and found out that there was a
15 danger, a danger of pollution of this public water supply.

16 His Honor will instruct you about
17 foreseeability and what the elements are about that. His
18 Honor will talk to you about violation of a statute as
19 being evidence of negligence, and he will talk to you about
20 the fact that a company that operates a condition which
21 creates a nuisance on their property, that that is also
22 evidence that you can take into account in making your
23 decision about negligence.

24 Now, was it that these companies, just
25 they couldn't really take the time and the trouble and

1 spend the money to have done things the right way? Well,
2 how about Mr. Riley? What did he really have to do?

3 Well, he had to send a message, he had to
4 send a message to people who were using his land not to do
5 it, don't dump here. And what would that have taken? We
6 know what Mr. Riley felt about his land was something
7 important to Mr. Whitney. We know that Mr. Whitney used
8 the 15 acres to dump his materials, to dump the stuff that
9 he had in his business, the tanks and the drums, and from
10 Mr. Camerlingo's testimony, the stuff in the drums they
11 didn't want any more.

12 And we know that not just from Mr. Drobinski
13 in going through aerial photographs, but we know it from
14 Woodward-Clyde, the Beatrice engineering firm, for Beatrice
15 who didn't come in here and testify and tell you what they
16 found on the site. All we have is their reports, which we
17 put into evidence.

18 In their reports, 1984, Woodward-Clyde,
19 an environmental consulting firm like Weston Geophysical,
20 reviewed the aerial photography on that 15-acre site to
21 get an idea about historical land use on the site.
22 Certainly, Woodward-Clyde considered that to be an
23 appropriate methodology to follow to get some idea of
24 what was happening on this site; it is in evidence. And
25 they interpreted the 1966 photographs, which talk about

1 this land being used as the extension of business
2 activities of the barrel company and Murphy's waste oil.
3 That is in their report.

4 Then they talk about the 1969 photograph,
5 which shows an increase in those activities. And attached
6 to the report they actually make diagrams showing how the
7 activity changed. Here is the 15 acres, and they discuss
8 what this means in their report. This whole area here is
9 drum storage or sealed container storage, right over here
10 (indicating).

11 And in 1969 they interpret the '69 photo
12 and show increased drum storage, increased drum storage
13 over the '66 photograph. That is Woodward-Clyde, not
14 Mr. Drobinski.

15 So Mr. Whitney was getting a message, it
16 seems, and what was there about the land that told
17 Mr. Whitney that it was okay to dump there? Did Mr. Riley
18 say or do something or indicate to Mr. Whitney that it is
19 okay to use this land to dump your stuff? We know that he
20 did talk to Mr. Whitney in the early 1970s. He told him
21 to get rid of his tank.

22 Mr. Foley said he was mad about the
23 drums and not the tank, but Mr. Riley said he was mad
24 about the tanks and not the drums.

25 We know from the 1974 photographs that even

1 then, several years later, there are still tanks and drums
2 on the property. And what was it about Mr. Whitney, didn't
3 he get the message straight from Mr. Riley? Didn't he get
4 the message straight to remove all of his tanks and drums
5 from the 15 acres? Had Mr. Whitney removed all of his drums
6 and tanks and left somebody else's?

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Well, that should have been an indication

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and certainly it is an indication that it wasn't just

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talking to Mr. Whitney that would solve this problem,

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because it was not just Mr. Whitney but others who had to

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get a message. But what would send a clear message to

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junk businesses like Whitney and Murphy in Aberjona?

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How about a fence, a fence along the southern portion

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of the property is a very clear message to anyone who

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wants to enter this site that the property owner doesn't

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want access, doesn't want you to gain access to the

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site to dump on their property or to dump on anybody

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else's property to which you have to get through their

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property. Whether it's the city property or whether it's

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the property up here at Hemingway.

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Now, if Mr. Riley had taken the little

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effort in putting in a fence -- he said it would have

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cost a thousand dollars. In the sixties. Wouldn't

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he have sent a clear message to Mr. Whitney and everybody

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else and couldn't he have avoided (indicating) all of

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that? It wasn't the money and it wasn't the amount of

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effort.

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How about for Grace? Did it just cost

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too much money? Was that what it was? Just too much

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money to do it right. Too much money to have it hauled

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away. How much, a few thousand dollars to have it hauled

1 away?

2 We know Grace was saving a lot of money.
3 They had the money because they were spending less on
4 waste disposal and antipollution than their competitors.
5 It's in evidence.

6 Was it for W. R. Grace any amount of
7 money spent on waste disposal and waste removal, no matter
8 how little, was too much? Wasn't that the wrong message?
9 Shouldn't W. R. Grace have sent to Mr. Forte the message
10 that, "Look, the dumping of waste on the ground, no
11 matter how little, is too much"?

12 Now, when this evidence is put before the
13 defendants, the companies, what do they say? Well, they
14 point to the north and they say that, "Look, these
15 other companies were doing it." And they point to
16 National Polychemicals and all those other companies
17 along the Aberjona River, and they hold up with pride
18 the pictures from National Polychemical, the pictures
19 of the drums, and the pictures of the waste disposal
20 sites and the disposal dump sites. They hold those
21 up with pride and say, "They did it." They feel free to
22 point their finger outside this courtroom, up north, to
23 which there is little or no evidence having to do with
24 the pollution of these wells, and they have a failure of
25 will, of the ability to point their finger within these

1 walls of this courtroom to where there is abundant
2 evidence.

3 W. R. Grace and Beatrice Foods do not have
4 the right to point elsewhere outside this courtroom
5 until they point across these two tables at
6 each other and at themselves.

7 MR. FACHER: I object. That is not a
8 proper argument.

9 THE COURT: I will deal with it in the
10 instructions.

11 MR. SCHLICHTMANN: Ladies and gentlemen,
12 I can't tell you why these companies didn't care.
13 I can tell you what happened to this community because
14 they didn't care. And I can tell you something else:
15 That these two companies needed something else to make
16 them care. These two companies needed something that
17 only you can give them. These two companies needed the
18 certain knowledge that society would not overlook their
19 conduct, that their conduct would not go unnoticed,
20 that the society would not condone their conduct by fear
21 or failure of will. That can only come from you. This
22 certain knowledge that if the company engages in this
23 kind of conduct which results in harm, that they will be
24 held accountable for what they did.

25 Now, in this part of the phase you hold

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1 them responsible for what they did. And in the
2 second part you will have the opportunity upon evidence
3 to hold them responsible for what happened because of
4 what they did, what happened to these families. They
5 haven't been held accountable, yet, and they argue
6 that they should not be held accountable. When all
7 the evidence is laid before them about their conduct,
8 they deny it.

9 When you go to W. R. Grace and confront
10 them with the evidence, what do they say? We never used
11 trichloroethylene. Not that much. One drum. Three
12 drums. Four drums. More drums. We only dumped here.
13 There. Everywhere. It was only a little. Little more.
14 It was enough.

15 And Beatrice Foods: There was never any
16 dumping ever at that property. One drum. Two drums.
17 Three drums. It was only here on the property. Not over
18 here. Over here. On our property, too. Everywhere.
19 But it wasn't that much. It was enough.

20 MR. FACHER: Objection, your Honor.
21 Your Honor has ruled on this aspect with respect to
22 dumping -- inference of chemicals.

23 THE COURT: I will deal with it on the
24 instructions. I see no grounds for objection at the
25 present time. It's argument.

1 MR. SCHLICHTMANN: And what does the
2 Beatrice Foods Company tell you about their site? They
3 tell you that: Look, the evidence is very clear here.
4 All this contamination, this contamination that you
5 see, well, obviously we can't deny that. That
6 is plain and obvious to anybody. It's there. But it
7 only got there, let's see, within the last six years,
8 right after the wells closed.

9 Now, what is the basis of their telling
10 you that it got there, all of this contamination, in
11 the last six years? Well, they have given you the
12 testimony of Dr. Braids, and the basis of his testimony
13 is that there were bugs there and they would have eaten
14 this stuff and would have broken it down into vinyl chloride.
15 But it's the first time anybody has ever done it and it's
16 not an accepted methodology. Nobody has ever used it
17 before and while breakdown may occur we are not quite
18 sure what the conditions are.

19 And you have to ask yourself: Well, is
20 this an appropriate methodology in this particular
21 case to decide when things were dumped on the Beatrice
22 property, when the site become contaminated? I think at
23 the very least we should do a little reality testing of
24 Dr. Braids' theory.

25 So it had to have happened within the

1 last six years since they closed the wells in May of '79.
2 Well, it didn't happen this year. We have been in trial.
3 I doubt very much it happened then.

4 1985. Well, Weston Geophysical was there
5 mapping the site, taking all of these samples. So I don't
6 think it happened then.

7 Let's see. How about '84? Or '83 when
8 Woodward-Clyde was on the site doing all of their investiga-
9 tion about the past disposal activities that occurred
10 at the site? I don't think it occurred during '83 or '84.
11 I doubt very much Wood-ward Clyde would have put up with
12 it. At least I would hope not.

13 How about '82 when the families sued
14 Beatrice Foods for being one of the parties that polluted
15 the wells? That was the year Mr. Riley put up his fence.
16 Well, during that year, that was 1982, that was a year
17 the EPA gave their final report about their investigation
18 of the area that had dated back into 1981 and earlier of
19 that site and the aquifer. So I don't think it happened
20 then.

21 How about 1980 when Mr. Kelliher came on the
22 site in October? It's in evidence. His report of what
23 he saw. All the drums he said had to have been there a
24 long time. Did it occur then?
25

1 Well, that leaves us with 1979. Well, the
2 wells were closed down in May of '79, and Mr. Riley,
3 the tannery, tested their well in the property in September
4 of '79. Now, that well was found to be contaminated
5 in September of '79. So I guess it must have all
6 occurred in the summer of 1979, after the wells closed down
7 and before they tested.

8 Well, does that make sense? Does it seem
9 right? Woodward-Clyde, I don't think, would agree because
10 their report is in evidence and they talk about this
11 period '78 to '81. They go through the area photographs
12 and they say: There is really very little activity here
13 and it doesn't look like there is any access from
14 Salem Street onto the site, and they talk about all the
15 activity occurring in '66, '69 and in the seventies,
16 just like Mr. Drobinski talked about it when he showed
17 you the area photographs. They talk about contamination
18 isn't activities. But how, how do you contaminate land?
19 Somebody has to engage in an activity. I mean you got to
20 do something. I doesn't grow there.

21 Mr. Braids said the contaminants took
22 up residence on the site. Well, they'd at least have to
23 be bused in.

24 So I mean somebody has to go there and
25 dump the stuff from drums or tanks or whatever, and it

1 appears that the activity which we can logically assume
2 contaminated the site is that activity which is plainly
3 shown in the aerial photos and reported by Woodward and
4 Clyde. They tell you that, well, be that as it may,
5 there is no way that that contamination could have got to
6 Wells G and H.

7 Now, why do they say that? They say
8 that because they would have you believe that the water
9 which normally and naturally flows in a southeasterly
10 direction, and it is in the Woodward-Clyde report, they
11 have the arrow, southeasterly, not southerly. You can see
12 the arrow going to the river. It's southeasterly fashion.
13 They say that when the wells went on, this water that
14 naturally goes in a southeasterly direction drew the
15 water down on the Beatrice site and shoved it away to
16 the west. Does that make common sense that that would
17 occur? There must be a hydrological principle that
18 could explain it because the common sense would tell
19 you that, well, if the well is pumping, you would think
20 water would be naturally drawn to it. There must be a
21 hydrological principle to explain it going away.

22 Well, did Mr. Kotch give us a hydrological
23 principle to explain why it went away? What he said
24 was that, well, the river was a barrier, the river was
25 a barrier.

End Y

1 Now, why did he say the river was a barrier?
2 Because he said that if you looked at the shallow wells, you
3 will see that the water actually goes west instead of east.

4 This is his diagram -- Actually, it is a
5 picture of his diagram. You will remember it, I'm sure. It
6 has his flow arrows on it. And right here at the river he
7 has the water flowing west. Well, we know there is something
8 wrong with this picture because everybody agrees,
9 Mr. Maslansky, Dr. Guswa, that flow lines should be
10 perpendicular, arrows should be perpendicular to contours.
11 He has them askew. And Dr. Guswa said that this is going
12 to tell you the vertical gradings, the vertical direction
13 of the water. And it is interesting that he doesn't take
14 into account this part of the aquifer, the lower part of
15 the aquifer, the aquifer where the contamination was. That
16 is the area that Dr. Guswa looked at. That is the area
17 that Dr. Pinder looked at. Why didn't Mr. Koch look also
18 in that area?

19 When I asked him to look at it and we drew
20 these lines, he showed it goes from 14 over to the east on
21 the basic hydrological principle that you go from high head
22 to low head, and when those wells are pumping and drawing
23 the water down, there is lower head between the wells and
24 the Beatrice property which would tend to make the water
25 go in this direction (indicating).

1 When I gave those values to Dr. Guswa --
2 As a matter of fact, they came out of his file. These are
3 the values that he used -- it is very clear that the head
4 was from a higher to a lower to the wells.

5 And doesn't it also make sense from
6 Mr. Koch's own diagram, if from nothing else, you see this
7 contour line right here, that is an indication, isn't it,
8 if we follow the principle that an arrow should be
9 perpendicular, we have the flow line and the arrow should
10 be perpendicular, he has it kind of going out and coming
11 back (indicating).

12 There is no contour here. Here is the
13 contour. If he drew this arrow perpendicular to this
14 contour, wouldn't he have water coming down from the river
15 and going over to the wells? And, in effect, isn't that
16 exactly what Dr. Guswa drew?

17 Now, the next day, after Dr. Guswa did
18 this, he did talk about -- He said there was a problem,
19 there is uncertainty here about water level measurements.

20 First of all, there is no disagreement to
21 anybody about the water level measurements because he wrote
22 them down here, that the head here is higher than here. So
23 we know it has to go here. Well, 14 is on the Beatrice site.
24 14 is right here. It has 37,000 parts per billion of
25 trichloroethylene in it. It is a pretty contaminated well,

1 so we made landfall on the Beatrice site (indicating).

2 The next question is how much further did
3 water flow from the Beatrice side and go to the wells? And
4 you asked Dr. Guswa to do an exhibit, and he did that for
5 you, and he showed you how the contour lines would be when
6 he drew them.

7 How about the Grace site? Now, I do want
8 to bring up one other thing about these water levels because
9 I think there are things that have been said in this trial
10 which are disturbing. They claim there is this measuring
11 point difference between Weston Geophysical, which accounts
12 for this difference in water level measurements. Weston
13 Geophysical measuring points were put into evidence. They
14 were put into evidence by Beatrice Foods, the certified
15 surveyor's calculations of the measuring points, they have
16 been put into evidence. Those are the ones that Geotrans,
17 that Dr. Guswa used, those are the ones that Dr. Pinder
18 used. It wasn't until the second day of my cross-examination
19 of Dr. Guswa that we learned that there was this measuring
20 point difference.

Rully Facts Cross

21 Well, what accounts for the measuring
22 point difference? If Woodward-Clyde had been in here,
23 maybe they could have explained it to us. There was some
24 talk it wasn't just Woodward-Clyde but Geraghty and Miller,
25 too. We are not sure who was doing what measuring.

1 There have been a couple of things about
2 water levels in this trial. You remember when Dr. Pinder was
3 cross-examined, it was represented to him that Well 12 had
4 a measurement of 40.5, and do you remember when Dr. Pinder
5 used that value, which was represented to him, the arrows
6 crashed together. You remember that. Well, where is the
7 evidence that that is the proper value for that well? It
8 is not on Mr. Koch's sheet of values that has been
9 submitted into evidence, and it is not the proper value
10 that was used by Geotrans, Dr. Guswa, or by Dr. Pinder.

11 And, also, on this issue of facts and
12 representations, do you remember that Dr. Pinder was cross-
13 examined and there were representations about the pumping
14 of the Riley wells? Well, there are no doubt about it there
15 are two wells, but if you read the Woodward-Clyde report,
16 they make it very clear the Riley Well No. 1, it is in the
17 report which Dr. Pinder read, the other experts read, it
18 says that Riley Well 2 substituted for Riley Well 1. In
19 fact, they talk about it as being abandoned. And what is
20 the amount of pumping they say historically occurred at
21 the Riley site? Woodward-Clyde reported an average of 325
22 gallons per day, 200-odd gallons per minute. Not six or
23 seven hundred gallons per minute. And, so, when we talk
24 about how much capturing goes on with the Riley well, let's
25 not confuse the issue and say there were two wells pumping

1 at a million gallons per minute, because they weren't.

2 There is no dispute in this trial that
3 300,000 gallons is the limit that the tannery used, 300,000
4 gallons of water. Mr. Foley talked about that. They
5 certainly didn't use 1,600 gallons or a a million six
6 hundred thousand gallons or whatever.

7 And you look at this report about the
8 capturing of Riley Well 2. They did a pump test and
9 actually drew a little circle about what their cone of
10 influence was. The cone of influence that Woodward-Clyde
11 draws does not cover the entire site. If you draw a line
12 between those contours, you will see the groundwater divide
13 -- This one is 43 and this one is 41 and this one is 42.

14 Even in the Woodward-Clyde report, the
15 second one around, when they did the test on the pump, they
16 used the Riley well and put it up to its max, six or seven
17 hundred gallons per minute and still, as far as I could
18 get was Well 6. As far as I could get was here (indicating).
19 How about all of this? That was Well 6. That wasn't
20 captured. Even if they used the thing to the maximum,
21 which certainly they did not.

22 How about the W. R. Grace site? Well,
23 they tell us that the site is stuck in cement. It was
24 squished down by the glaciers many thousands of years ago
25 so tightly that things don't move through it very quickly;

1 very, very slowly. Nothing actually has left or nothing has
2 gotten very far from the Grace site.

3 And what is the basis for this opinion as
4 to how fast things move? Dr. Guswa tells us it is his model,
5 his model of the aquifer. That represents his understanding
6 of the aquifer.

7 Now, Dr. Guswa explained that when you go
8 to model, when you do a model you map out an area, and he
9 did that with his grid. That represents his area, and this
10 is the area that you attempt to understand (indicating).
11 The conservation of mass says you have to understand what
12 comes in and what goes out. You have to understand the
13 system. It must be consistent within itself. If it isn't
14 consistent, then something isn't working, the parts aren't
15 working together. He says to us, the way you check on these
16 things, you do reality testing. You don't just do a model
17 in an abstract sense, you go and test it. How do you test
18 it? You bring it to reality. You remember, we went on a
19 reality test drive on Dr. Guswa's model down at the Beatrice
20 site. Something happened to the model, it got stuck in the
21 zone of uncertainty, the zone of uncertainty.

22 Now, Dr. Guswa says that this zone of
23 uncertainty is there because there is a conflict between
24 the measurements. He doesn't know which one to use.

25 Well, isn't that the whole purpose of the

1 model? .Couldn't he look: Let me have Weston's figures. Let
2 me put it in this model here and see if it makes sense with
3 the rest of the system. Let's see how it looks. If it is
4 inconsistent or doesn't work, maybe Geraghty and Miller
5 will give him more data, and he puts that into the model and
6 see if that works. But he didn't do that.

7 On this site, the Beatrice site, which is
8 smack dab, if I can use that phrase, in the middle of
9 Dr. Guswa's model, which is just a few hundred feet from
10 the wells, he has a zone of uncertainty.

11 Now, he said he didn't do this checking
12 between the various values and try to figure out the zone
13 of uncertainty because that was Beatrice's problem. He was
14 hired to handle Grace's problem.

15 Well, if Dr. Guswa's model can't figure out
16 the Beatrice problem, then Dr. Guswa's model has a problem.
17 And if Dr. Guswa's model has a problem, then W. R. Grace has
18 a problem. So we took the model up to the Grace site to
19 try and understand what was happening to all that water
20 that Dr. Guswa said was coming down in the aquifer, the
21 7,400 gallons a day that was leaving, and we determined,
22 using a basic scientific formula, that the Grace site would
23 be under 10 feet of water every day if you used his
24 hydraulic conductivity in his formula. That would be even
25 more devastating than even the 250 year flood. And in an

1 attempt to understand what went wrong, what was not
2 accounting for this water, we discovered another zone of
3 uncertainty.

4 The other zone of uncertainty was the
5 bedrock. The water had to go into the bedrock to explain
6 this problem. He had to get rid of some of this water and
7 it went through the bedrock, but he couldn't tell us where
8 it went.

9 Well, the bedrock is fractured, and there
10 are fault lines, and he agrees there is a fault line going
11 from the northeast to the southwest, and that his model
12 assumed the fractures were opened. And, in fact, we have
13 put into evidence this EPA Report in June. In fact, they
14 have a picture of the fault area. This is the picture,
15 and you will see -- You can see a fault goes right there
16 (indicating). Remember that parallels the bloody bluff
17 fault. This is the southeast and that is the southwest.
18 Here is S-21 and S-22. Those are the wells up here by
19 our Grace site, and S-21 and 22, which the report says are
20 highly fractured and the fault line goes down below S-8,
21 and S-8, as you will see in this report is right in the
22 middle between Wells G and H. There is no reason to
23 believe if, in fact, a lot of water is going into that
24 bedrock, we have a good reason to believe what direction
25 it is taking.

1 Now, there was also a problem between
2 Dr. Guswa's analysis of the situation and Mr. Maslansky.
3 Remember, when we used Dr. Guswa's hydraulic conductivity
4 and Mr. Maslansky's gradient and porosity, there was a
5 problem, a real conflict.

6 Mr. Maslansky's water wasn't moving any
7 faster than Dr. Guswa's contamination, so there was a problem
8 which required homework. And I think it is understandable
9 that Dr. Guswa hasn't quite worked out the bugs in the model
10 because as was apparent in the examination, he really didn't
11 get a chance to work on the model until after I deposed him
12 on January 22, that is when he was working on it, and he
13 still has these zones of uncertainty. And I submit to you,
14 ladies and gentlemen, that when Dr. Guswa works out all the
15 bugs and figures it all and makes the system all consistent
16 and the water doesn't back up on the Grace site but flows
17 in and everything is consistent, I think his figures will
18 probably agree with Dr. Pinder's.

19 Dr. Pinder also analyzed the system. He
20 also did a model. That was one of the ways that Dr. Pinder
21 analyzed the system. Dr. Pinder did it other ways as well.
22 He tried to have an understanding of the system.

23 Dr. Pinder showed you a computer printout
24 of his analysis, which illustrated his analysis of the
25 aquifer before pumping and after pumping, and his analysis

1 of how contaminant plumes move from the Grace site and the
2 Beatrice site through the well field. But he wasn't content
3 to do it just that way, he also analyzed it using field data
4 as well independently, and he also showed how it was before
5 pumping and after pumping, another way to analyze the system.

6 And then, in the end, he exercised his
7 judgment in putting all the stuff together. In the end,
8 ladies and gentlemen, you are going to have to decide what
9 makes common sense, what seems right. Did it look like --
10 which expert seemed to be following basic hydrological
11 principles and which seemed to make sense.

end z

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1 Now, they say, Grace says and Beatrice
2 says: Look, look to the river. Don't look at our
3 properties. Go to the river. There is where it is. It's
4 all coming from the river. It's all from there. This
5 is to the north. The river is the place to look.

6 I think we should be very clear when
7 you look at the river. It really doesn't make any
8 difference if the river gives 99 percent of the
9 water to Wells G and H or just one percent of the
10 water to Wells G and H. The issue about the river
11 is: Was the river a source of contamination -- not
12 water, but contamination -- to Wells G and H?

13 I think that the defendants have focused
14 on how much water and not on the issue of how much
15 contamination. You have to look at the river the way you
16 look at any site, whether it's the Grace site or Beatrice
17 site. What is the evidence that the river is a source
18 of contamination to those wells?

19 Well, the witnesses who came in here, the
20 witnesses brought to you by W. R. Grace, they said that
21 the place that they looked at up the north country
22 was just like it was 10 and 15 years ago. We went on
23 our view and you went to the east drainage ditch and you
24 saw the same ugly red water, horrible water, that
25 was there now, as it was there 10 years ago. The pictures,

1 you saw.

2 They talked to you about the fact that,
3 in fact, this north country was looked at by the EPA.
4 That is the reports they are reading from, the east
5 drainage ditch report we put into evidence, and the
6 final report, after the east drainage ditch report, the
7 one done by the EPA in June of 1982, and it certainly
8 talks about the whole area, the whole study area, includ-
9 ing National Polychemicals in Wilmington, Swanson and
10 the dump, and it went through the whole area.

11 They checked out the geology by the way.
12 You will remember that one. (Indicating.) It shows the
13 geology. It shows the peat. They call it peat. They
14 discuss the peat in this report, you know. And it is
15 interesting. It says that a seismic survey was performed
16 to gather the necessary depth to bedrock information.
17 The performance of this survey was hampered by thick
18 deposits of peat along the Aberjona River. So, I don't
19 think the EPA is disputing that there is a peat layer
20 at the Aberjona River.

21 It's also interesting, they have another
22 comment in here, it says, "1938 area photographs indicate
23 that extensive peat bogs and swampy terraine once
24 covered the entire length of the Aberjona Rivery
25 Valley." They make a very interesting comment.

1 "This peat may have acted as a barrier to the discharge
2 of groundwater into the river." This is peat that is in
3 that drum. (Indicating.) That is the muck you pick up
4 with your hand. These people are talking about peat deposits
5 that a river causes, and the peat in the Aberjona River,
6 I assure you, ladies and gentlemen, is no different
7 than any other river's peat. Nothing special about that
8 peat. It isn't different.

9 Well, so where is the evidence that the
10 river is a source of contamination? I asked Dr. Guswa
11 to go through the test results about the river, and, as
12 I say, the red, ugly water at the east drainage ditch is
13 still there, and the witnesses tell us the same company
14 is doing the same kinds of things, the same kinds of
15 conditions are still there. Then I suspect you would begin
16 to see this river was a conduit of contamination. Well,
17 where is it? It just ain't in the river.

18 Now, there are plenty of reasons why any
19 kinds of contamination like volatile organics could
20 volatilize over a distance, why we don't find anything
21 here. They point to the east drainage ditch report,
22 which talks about -- they did their exhibit with all of
23 the lows and the highs. Well, if you read the report
24 to see how low they were and how high they were and where
25 they were, and they got low when they got down here.

1 (Indicating.) And the only time they come up with
2 anything was right over here at Salem Street, and what
3 did it show? These are all the lows and the highs. What
4 did it contribute to this river all the way down here?
5 Of course, there was nothing in between. But, assuming
6 it came from there, 27 parts per billion of TCE, 27
7 parts per billion. Well, is that the source of the contamina-
8 tion of Wells G and H? To get from the river it has to
9 get into the peat. The peat is high in carbon. And if
10 the contamination went from the river and poured out
11 like a sprinkler head down into that aquifer with all
12 that contamination, wouldn't you expect to find some
13 remnant, some fingerprint, something left to tell us
14 pollution was here from the river? These organics were
15 here?

16 Well, where is it? It is not in the shallow
17 wells. It's down deep. (Indicating.)

18 Now, why is it down deep? Why, when we look
19 at the contamination in these wells by the river, why
20 when we get from the Beatrice property do we find the
21 contamination in the area here going deeper? If it was
22 coming from the river, not from over here, wouldn't we see
23 it high here, going lower and lower to the well? You
24 don't see that here. And I asked Dr. Gusway, "In fact,
25 if we compare these results with each other, we find this

1 trend -- Correct me if I am wrong -- that the deeper
2 parts of the aquifer tend to have the highest concentra-
3 tion of chemical contamination, and the upper part of the
4 aquifer by the river has the least or none of
5 these chemicals; am I right about that? Is that true?"

6 And he said, "That is the pattern we see on
7 that map, yes.

8 "Now, Dr. Guswa, is that pattern consistent,
9 that we see, is that pattern consistent with the
10 following: That no contamination came from the Aberjona
11 River into this aquifer, but that the contamination that
12 we detect in this part of the aquifer under the river
13 is coming from sources in the aquifer which are away from
14 the river? Is that consistent with that?"

15 "Answer: Is the pattern consistent
16 with no source from the river?

17 Question: Right.

18 Answer: And only sources away from the
19 river?

20 Question: Exactly.

21 Is that pattern consistent with that?

22 Answer: It is not the only explanation, but
23 it is consistent, yes.

24 Question: It is consistent with that?

25 Answer: Yes."

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1 And then I asked, "Is it possible that
2 this could happen: That, in fact, the contamination
3 from Wells G and H could have come from an area to
4 the northeast of Wells G and H" -- "could have come
5 from an area to the northeast" -- the northeast (Indicating) -
6 "and from the west?" This is west.

7 " . . . contamination could have gotten
8 in the aquifer from those places" -- not the ones
9 I pointed to. I just asked Dr. Guswa northeast and
10 west. Those places.

11 But, "contamination could have gotten in
12 the aquifer from those places and got deep in the aquifer
13 in the medium and deep layers and then pulled over to
14 Wells G and H; and no contamination came from the river;
15 and is it possible that that could happen to explain the
16 contamination at Wells G and H? Is that at least
17 possible?"

18 And he said, "The contamination
19 we see at G and H now?

20 I said, "yes."

21 He said, "That is possible."

22 But there was another question asked.
23 The Court said, "Is it probable, yes or no?"

24 The witness said, "You are asking me the
25 question?"

1 "The Court: I am asking the question."

2 "The Witness: Probable? I think it is
3 a probable source. It is a probable possibility; it is
4 a probable --"

5 The Court says, "No, no."

6 And then the Court says, "In your opinion,
7 if the explanation that Mr. Schlichtmann has presented to
8 you is, in your opinion, a probable explanation of the
9 result that you see," and the witness said, "And the
10 question was phrased to the north and to the east with no
11 particular, specific locations; is that correct?"

12 "Mr. Schlichtmann: Yes.

13 "The Court: Northeast and west.

14 "Mr. Schlichtmann: Northeast and west.

15 "The Witness: Yes, that is a probable
16 source."

17 What happened after Dr. Guswa said that?
18 What happened was W. R. Grace blew the horn for retreat
19 and they pulled the forces down from the north country
20 and they pulled them back from the river and they retreated
21 up the northeast corridor back to the plant. And what
22 stood between W. R. Grace and the well field?

23 What stood between W. R. Grace and the contamination
24 of these two wells? The rifle range and the neighbors
25 on Dewey Street. The rifle range. And the neighbors

1 on Dewey Street.

2 Ladies and gentlemen, I do not think that
3 the defendants are counting on the evidence. The
4 evidence is complex, complicated. There is a lot
5 of it, no doubt about it, and you're going to be getting
6 questions by his Honor tomorrow and there is no doubt
7 about it, these questions are not simple and there
8 are four for each defendant.

9 In answering these questions, however,
10 although the questions are difficult, the answers to them
11 are truly simple and can be made simply and clearly.
12 I'd like to go through those with you because they are
13 complicated and, if you will bear with me, I have blown
14 them up and I will go through these.

15 The questions that you are going to receive
16 will be a little different and I have tried to put
17 the corrections that were put in there, which were
18 minor, so the sum and substance is going to remain the
19 same. The changes will not change the answers.

20 The first question that you are going to
21 be asked is, "Have the plaintiffs established by a
22 of the evidence
23 preponderance/that any of the following chemicals
24 were disposed of at the Beatrice site after August 27, 1968
25 and substantially contributed to the contamination of
Wells G and H by these chemicals prior to May of 1979?"

1 Now, this date, August 27, 1968, is the
2 date of the March letter, this letter by Mr. Maher from
3 Mr. Riley of the Riley Company. It was in this letter
4 Mr. Maher informed Mr. Riley the water table has
5 dropped in Wells 1 and 2, the two wells, and says that
6 the static water table has been effected by the city well
7 which have been put, installed, in the same general area.

8 Now, the issue here is have the families
9 established that chemicals, these chemicals, were disposed
10 of at the Beatrice site after that date which contributed
11 to the contamination of Wells G and H substantially.
12 And the answer to that question is that the activities
13 which resulted in the contamination of that property
14 occurred from the mid-sixties to the early to mid-
15 seventies, the early seventies. And it's not just
16 Mr. Drobinski's opinion. I think when you read the
17 Woodward-Clyde reports, you will see that they also
18 have a substantial basis for saying that -- for
19 Mr. Drobinski to have said that. This isn't something
20 Mr. Drobinski made up.

21 And so we know that once disposed of on
22 the land, it very quickly goes from precipitation into
23 the groundwater and the issue here is how long would it
24 have taken to get from the Beatrice site to the
25 wells, and the travel times given to us by Dr. Pinder

1 would have taken several months -- a few months in some
2 cases, several months in another, and I will go through
3 that with you, but certainly well within the time that
4 the wells were closed down in May of '79.

End AA

1 And so, when you come to this question, when
2 you look at the aerial photographs and you read the report
3 and you remember Mr. Drobinski's testimony and the reasons
4 for it, the reasons under the opinion -- it just wasn't a
5 naked opinion, there was a basis for it -- that this question,
6 the trichloroethylene, should be yes and tetrachloroethylene
7 should be yes and trans-dichloroethylene and 1,1,1 tri-
8 chloroethylene should be yes. All four chemicals were found
9 in great abundance on the Beatrice site.

10 If you answer no to these questions, you
11 need not go any further in answering any other questions,
12 the case will be over.

13 The second question says that if you
14 answered yes for any of those questions, what, according
15 to the preponderance of the evidence, was the earliest time
16 after August 27, 1968, that such chemicals disposed of on
17 the Beatrice site made a contribution to the contamination
18 of Wells G and H? And you are asked to give a month and
19 year for the chemicals. Now, how would you be able to
20 figure that out?

21 Well, we know the travel times for the
22 chemicals. Now, for the Beatrice site, the travel times
23 that Dr. Pinder testified to for trichloroethylene is three
24 years, and for tetrachloroethylene, 9.67 years, and for
25 1,2 trans, it is 1.03 years.

1 THE COURT: I think you may be reading
2 the Grace site figures, Mr. Schlichtmann.

3 MR. SCHLICHTMANN: I'm sorry, excuse me.
4 How do you like that? I should listen to what I am saying.
5 Thank you.

6 See how difficult it is? All right, now
7 I can't make a mistake.

8 For the Beatrice site, the TCE is three
9 months, tetrachloroethylene is 9.67 months, 1, 2 trans is
10 1.03 months, and TCA is 2.34 months.

11 Now, to get to the Beatrice site, the wells
12 have to be pumping, so you have to look at an exhibit to
13 find out when the wells were pumping for what period of time.
14 If you look at Exhibit P-780, they have the dates for the
15 well pumping in 1968, and you look at this period of time
16 from August, you will see what well was pumping. G was
17 pumping all the way into 1969 into, in fact, October of 1969.
18 The well was pumping all during that period of time.

19 Now, after this date, when is it reasonable
20 to assume that chemicals were disposed of on the site which
21 could have contributed to the pollution of Wells G and H?

22 Well, if this was the period of time that
23 the activities were taking place and Mr. Whitney was making
24 use of this property for the disposal of his waste, and we
25 know what kind of waste was disposed of on this site during

1 this time, these chemicals, and is it not reasonable.

2 MR. FACHER: I object, your Honor. That
3 is not a correct statement, "during this time."

4 MR. SCHLICHTMANN: I object. He was
5 interfering with my argument.

6 THE COURT: If he has a legitimate -- please
7 read the last part back.

8 (Last part of argument read.)

9 MR. FACHER: These chemicals, pointing to
10 this chalk, which is a 1985 chalk.

11 THE COURT: It is the same chemicals, and
12 I will permit it as identification of the chemicals, the
13 four chemicals that we are concerned with. Go ahead.

14 MR. SCHLICHTMANN: Is it not reasonable to
15 assume that disposal of these chemicals was taking place for
16 at least the next 30 days of this date? Is that not
17 reasonable if this is the period of time in which disposal
18 activity is taking place and we look at the 1969 photo and
19 we see the amount of activity that took place during that
20 period, is it not reasonable to assume that Mr. Whitney
21 and whoever else was doing the dumping, their dumping at
22 least within the 30 days of that?

23 If you use that 30-day period and you use
24 those travel times, then the date of arrival for
25 trichloroethylene, if you use three months from that 30-day

1 period will be December, 1968.

2 And for tetrachloroethylene, the travel time
3 is 9.67 months. .67 months is about 20 or 21 days. But
4 if, in fact, you are putting it in as a month or year, it
5 isn't much different if you use the dates, 9.67 months,
6 within that 30-day period may take the chloroethylene
7 arriving in that pumping period July, 1969.

8 Now, for 1,2 trans, the travel time is
9 1.03 months and .03 months is .9 days, but that still would
10 be covered by the period of time that you have been asked
11 to put in. And if you have the travel during that 30-day
12 period, that would be October of 1968.

13 And for 1,1,1 trichloroethane, the travel
14 time is 2.43 months. .43 is 12.9 days. Again, I don't
15 think it makes a difference. We are just doing it by month
16 and year, and that would be December, 1968.

17 Now, in the next question, if you have
18 answered yes in Question 1 as to any chemicals, please
19 answer the following question:

20 Have the plaintiffs established by a
21 preponderance of the evidence that the substantial
22 contribution to the contamination of Wells G and H prior
23 to May 22nd, 1979 by chemicals disposed of on the Beatrice
24 site after August 27, was caused by negligence of Beatrice,
25 that is, the failure of Beatrice to fulfill any duty of due

1 care to the plaintiff? Then it says with respect to the
2 same chemicals, and if the disposal activity took place
3 during this period of time and this was a period of time
4 that Mr. Riley, who knew about the City wells also knew
5 from Mr. Maher that the City wells were affecting his water
6 table, and Mr. Riley from the 1969 photographs and the other
7 evidence of the other witnesses knew or absolutely should
8 have known that the site was being used as a dump site,
9 you certainly can find that during this period of time
10 Mr. Riley was negligent in not doing something about the
11 disposal activities that were taking place on the land. If
12 you so find, you can answer as to each of these chemicals
13 yes.

14 And then the last question. If you have
15 answered "Yes" to any part of Question 3, what, according
16 to a preponderance of the evidence was the earliest time
17 at which the substantial contribution referred to in
18 Question 3 was caused by the negligent conduct of this
19 defendant with respect to the same chemicals? And the
20 analysis for Number 4 is really the analysis that you went
21 through -- excuse me, for the second question, that had
22 been done something within that 30 days, it is reasonable
23 to assume that if he had done something to stop the dumping,
24 he could have prevented the arrival of those chemicals that
25 would have been disposed of during that period by putting

1 up a fence or making his message clear some other way to
2 Mr. Whitney or whoever else was using that land. And so
3 as to Question 4, the analysis must be the same as it is
4 for Question 2, as the analysis for Question 3 must be
5 the same for 1. Because the numbers are important, are
6 very important in the case because I can tell you that in
7 essence yes answers on Number 1 and Number 3 are answers
8 that are in support of the plaintiffs' case, and no answers
9 are in support of the defendants' case, but when it comes
10 to this part, it is not easy.

11 I would like you to remember these dates
12 and the analysis that I went through with you.

13 Now, for the Grace site the same types
14 of questions are also being asked. Have the plaintiffs
15 established by a preponderance of the evidence that any
16 of the chemicals that were disposed of at the Grace site
17 after October 1, 1964 and substantially contributed to the
18 contamination of Wells G and H by these chemicals prior to
19 May 22nd, '79? Now, here the date is different, it is
20 October 1, 1964. That is the date that Well G opened, and
21 so the question here is: Have we shown that chemicals
22 disposed of at the Beatrice site after October 1st resulted
23 in the pollution of the wells with these chemicals? And
24 if you accept Dr. Pinder's travel time that chemicals used
25 during his travel times in those years, then those chemicals

1 would have arrived, you will find they were disposed of at
2 that period.

3 Now, at the Grace site, there are just
4 three chemicals, trichloroethylene, tetrachloroethylene, and
5 trans-dichloroethylene. When you look at this exhibit, you
6 will see that there is contamination of these chemicals to
7 here, all three, into the building here, and, of course,
8 down here, along here, GW-3, and coming off the property,
9 this is GW-3 (indicating). All three chemicals. And you
10 have been told, well, the only evidence is we purchased the
11 chemicals, tetrachloroethylene in 1972. Well, there is no
12 evidence that any trans-dichloroethylene was purchased.
13 That is not the issue.

14 The issue was not what was purchased or
15 what W. R. Grace says they purchased or when they purchased.
16 If nothing else in this case, we can be sure W. R. Grace
17 isn't quite sure what they bought when they bought it and
18 how much they bought. They told the EPA in a 1982 letter,
19 when the EPA asked them how much trichloroethylene, they
20 said one drum. Then, when they were asked in '73 by the
21 EPA who was doing a survey, Mr. Shalline in that memo that
22 was in evidence -- I hope you don't have as much trouble --
23 P-266A, there is the memo on the second page where they
24 talk about the year, and this is 1973. It says up until
25 September used trichlor, 150 gallons. When he was answering,

1 he was answering the EPA's request up to September of that
2 year, 150 gallons. When the EPA wanted to know how much they
3 used, they said one drum. And in the 1969 hazardous
4 substance memo of Mr. Shalline's, he states one drum at a
5 time in 1969. So I don't think we can count on W. R. Grace
6 as being accurate about how many drums of trichloroethylene
7 that they used.

8 So what you have to do is go to their site
9 and look at what you find on the ground and where you found
10 it. You find by far, the greatest contribution of
11 trichloroethylene everywhere and trans-dichloroethylene in
12 other places and equal amounts of trichlor. But the higher
13 amount of trichlor in the north part of the site, right
14 about this first addition, with the other chemicals. So
15 you can rightly assume that there was dumping going on
16 underneath this building, which is built in 1966, of the
17 chemicals that we find there. It is a fair and reasonable
18 conclusion (indicating).

19 You won't be able to use the W. R. Grace
20 documents and records to help you. You will have to go to
21 what we found on the ground and where we found it and where
22 it was reasonable to assume when it was dumped and where
23 it was dumped. This was built in 1966, and this was added
24 on in 1974. We know from the overlays of the aerial
25 photographs from Mr. Barbas and the other witnesses, talked

1 about the dumping that went on underneath this area where
2 the plant is built over, the dumping that went on
3 (indicating).

4 When we look at the wells at both ends of
5 the building, we find those chemicals. We know the water
6 flows like this (indicating), and this is asphalt now.

7 When was that contamination put there?
8 Isn't it reasonable to assume it was put there before they
9 put this addition of the asphalt down? And the dumping of
10 these chemicals came from this building, and it is under-
11 neath that building before they put up that building
12 (indicating).

13 So for those chemicals, it is reasonable
14 to assume in October of '64 that all three of them were
15 being disposed of at that site, and they would have then
16 traveled, and the travel times -- Now, I will give them to
17 you again. TCE, three years, and tetrachloroethylene, 9.67
18 years, and 1,2 trans, 1.03 years. Now, if you have answered
19 yes in Question 1 to those chemicals, then you then have
20 to say what the travel times were. You can use the date of
21 October 1, '64, because you can assume this was a normal
22 business routine from the evidence. That is pretty clear
23 that this is how they got rid of their waste on a regular
24 routine and that, therefore, it is reasonable to assume
25 as of this date and the next date there would have been some

1 dumping of these chemicals which would have resulted in
2 contamination of the aquifer resulting in contamination of
3 the wells.

4 Now, the dates of arrival, months by year,
5 we'll translate them. For TCE, October, 1967, and for
6 tetra, which is 9.67 years, and .67 years, amount to two
7 days, June, 1974. And for 1,2 trans, the travel time is
8 1.03 years. .03 years is 10.95 days. That is October, '65.

end BB

CC

On that point I'd like to point out to you

BS/kr

1 that when you talk about the fingerprint of chemicals there
2 are lots of chemicals disposed of at the Grace site, as
3 indicated in this exhibit. There are lots of chemicals
4 that are found on the Beatrice site. These are the
5 chemicals that moved. How they moved and when they
6 moved is dependent upon where they were disposed of
7 and in what concentrations and the amounts that arrived
8 at Wells G and H are going to depend upon where and
9 what.
10

11 The major contaminant is trichloroethylene
12 and it's interesting to note on the Grace site, tri-
13 chloroethylene is everywhere and trans-dichloroethylene,
14 while it may be in equal amounts in other places, is
15 not in every place that we find trichloroethylene.

16 And the third question, again, the
17 analysis here is, if you answered yes in Question 1, have
18 the plaintiffs established by a preponderance that
19 the substantial contribution to the contamination of
20 Wells G and H prior to May 22, 1979 by chemicals disposed
21 of on the Grace site after October 1, 1964 was caused by
22 negligence.

23 I don't think I have to repeat the
24 comments I made about whether it was negligent to have
25 allowed this to have occurred. So the analysis to the

1 answer here must be the same as it is for No. 1. It
2 must be answered yes, based on the evidence.

3 Finally, for the last question, if you
4 have answered yes to any part of Question 3, what,
5 accordance to the preponderance, was the earliest time
6 which substantial contribution to the contamination
7 was caused by the negligent conduct?

8 And, again, the month and the year. The
9 analysis has to be the same as it is for Question 2.
10 And, again, these dates are important.

11 Now, the evidence is complicated. It is
12 difficult and there is a lot of it. And that process that
13 we went through was very tedious and time-consuming;
14 but, like many things in this case, it is something that
15 we have to do. If the end result is going to be justice
16 for these families, as difficult as it is, as tedious and
17 as time-consuming as it is, it must be done and it must
18 be done right, if these families are to receive justice
19 in the end.

20 I believe that everything that I have asked
21 you to do in this case, every answer that I have asked you
22 to make is based on the evidence, fairly on the evidence,
23 and I ask you to make that judgment based on that
24 evidence.

25 I don't think the defendants are counting

1 on the evidence, and I don't think they are counting on
2 the fact that it is too difficult or there is too much of
3 the -- maybe too much evidence of wrongdoing here --
4 maybe there is too much and it's too easy to become
5 distracted or go down the wrong path or take the wrong
6 turn. You must stay on the right path for these
7 families to eventually receive justice and you must
8 not be distracted.

9 There was a lot of evidence to distract
10 you, a lot of things that can distract you, and put you
11 down the wrong path so you will take a wrong turn. Please
12 don't. Are they counting on the fact you won't have
13 the courage to declare that what these companies did was
14 wrong or the strength to carry on until the job is
15 completed? The families are counting on something, too.
16 The families are counting on the fact that you do
17 take your job as jurors very, very seriously. There
18 is no doubt about it. Nobody can doubt from your
19 attendance and your interest that you will have the
20 courage and you will have the strength to see this through
21 to the end.

22 Ladies and gentlemen, you must have that
23 courage and that strength. You must have it for the
24 families. You must have it for every company that
25 ever spent the money or took the time to make this

1 community better for their presence, and not for worse.
2 You must do it for W. R. Grace and Beatrice Foods,
3 because they, too, are part of our community. You must do
4 it for the children and the grandchildren, for Mr. Shalline's
5 and Mr. Morrill's and Mr. Riley's, for everyone's.

6 I hope that you won't do the expedient thing
7 and end the trial.

8 I'm reminded of Ibsen's play, "Enemy of
9 the People," and Ibsen talked about this issue a hundred
10 years ago in a play about a tannery that had contaminated
11 a public water supply. He stated, "Expediency turns
12 justice and morality upside down 'til life here just
13 isn't worth living."

14 Ladies and gentlemen, truly by your
15 verdict in this phase and by your verdict in the
16 next phase, you will not turn justice and morality upside
17 down but turn it rightside up and you will make life worth
18 living for us all.

19 Thank you very much.

20 THE COURT: All right. Members of the jury,
21 I am going to excuse you now to ponder these several
22 excellent arguments. Consider them all. Remember
23 that the lawyers here have made conclusions based upon
24 the evidence, offered you conclusions, but the ultimate
25 task is yours to remember and assess and evaluate the

1 testimony.

2 Tomorrow I will give you the instructions
3 on the law. I don't believe it will be anywhere near
4 as exciting as today has been, but it is a necessary
5 part of the process. Then you will start right in with
6 your task. So you might review in your minds all that you
7 have seen and heard, as well as you can. Keep your minds
8 open until you begin to discuss this case among yourselves.
9 I will see you tomorrow morning at nine o'clock. All of
10 the jurors, the alternate jurors, as well, must attend
11 the instructions, in case you are called upon to serve.
12 There still may be some chance of a variation in the rule
13 and I will know it by tomorrow morning.

14 I think that is all at this point.
15 I will check my several notes here. All right. Thank
16 you. You are all excused.

17 I will see you, Mrs. Gilbern to discuss
18 a problem with you and I will see counsel after that.

19 (Whereupon the jury left the courtroom.)

20 (CONFERENCE AT THE BENCH AS FOLLOWS:

21 THE COURT: I am sorry to hear about your
22 sister.

23 MRS. GILBERN: She was with me last week
24 and she had been living in Philadelphia for a while and
25 we had a wonderfule time. She went Thursday and died