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1 U. S. ENVIRONMENTAL PROTECTION AGENCY

2 PUBLIC MEETING

3 CHEMPLEX FACILITY
4 Clinton, Iowa

5 held

6 February 2, 1993
7 Clinton Community College
8 Clinton, Iowa

9 Appearing on Behalf of:

10 U.S. Environmental Protection Agency
11 Region VII
12 726 Minnesota Avenue
13 Kansas City, Kansas 66101

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15 Chief, Remedial Enforcement Section
16 Superfund Branch

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18 Environmental Engineer
19 Waste Management Division

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22 Office of Regional Counsel

23 KENNETH HERSTOWSKI, P.E.
24 Project Manager
25 Waste Management Division

JAN LAMBERT
Office of Congressional Affairs

DALE ARMSTRONG
Office of Public Affairs

24 Also Present:

25 JEROME JOYCE, Staff Toxicologist
Agency Toxic Substance Disease Registry

LAVOY HAAGE and CAL LUNDBERG
Iowa Department of Natural Resources



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Opening Remarks by Craig Smith

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Presentation by Cal Lundberg

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Public Questions / Answers

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PROCEEDINGS

1
2 MR. SMITH: Good evening. And thank you all for
3 coming out tonight. I am pleased to see a good turnout
4 here at this meeting.

5 My name is Craig Smith. And I work for the
6 United States Environmental Protection Agency. My degree
7 is in Chemical Engineering. I am a professional
8 engineer. And I am in charge of the portion of what we
9 call the Superfund Program at EPA, where we're
10 responsible for a number of portions of the hazardous
11 waste treatment and disposal program in which we identify
12 old, and sometimes currently active, hazardous waste
13 sites that need clean-up, some form of remedial action.

14 We are responsible for a four State area: Iowa,
15 Kansas, Nebraska and Missouri. Our offices are in Kansas
16 City, Kansas.

17 And, in addition to hazardous waste, many of you
18 are probably aware that EPA has also has responsibilities
19 in the areas of water pollution, air pollution, other
20 hazardous waste disposal practices, drinking water.

21 Superfund is a program that came into existence
22 through legislation that was initially enacted in 1980.
23 It was re-authorized in 1986 and provides for an \$8.5
24 billion dollar fund of money to investigate and clean up
25 hazard waste sites.

1 Our responsibility in that is to identify the
2 sites and to conduct the studies to try and determine
3 what the problems are at the site and what appropriate
4 clean-up measures there may be for the sites, and then to
5 see that those clean-ups get carried out, either through
6 the use of that Fund money that I referred to or by
7 having companies that created the sites in the first
8 place come back in and do the studies and the clean-up
9 actions.

10 If, for some reason, we're not able to get
11 companies who are responsible for sites to do clean-up
12 actions, we will go ahead and use the Superfund monies
13 that I referred to, the \$8.5 million dollar fund, to do
14 the clean-up action and then do cost recovery actions
15 later against those companies.

16 So that's how the program basically works.

17 Can everyone hear me okay? Good. Not really,
18 did someone say? I'll speak louder.

19 Tonight, we're here to talk about a site called
20 Chemplex, which I imagine many of you are already
21 familiar with. It's -- that's the former name of a
22 chemical manufacturing operation that operated at the
23 facility that's now called Quantum.

24 The waste from the chemical manufacturing
25 process while it was operated as a Chemplex facility were

1 disposed of on-site. And many of them remain there and
2 some ground water contamination at that site has
3 occurred.

4 Tonight, we want to explain the remedy for the
5 disposal areas and get your comments on those remedies
6 that have been developed.

7 Ground water had been addressed in an earlier
8 meeting that occurred in August of 1989. I was not
9 present at that meeting, but some of the same people that
10 are here tonight for EPA and other representatives were
11 at that meeting.

12 And I am at least somewhat familiar with what
13 transpired at that meeting because I have reviewed the
14 transcript.

15 Bob Morby was here in my place at that meeting,
16 but he was unable to attend with us tonight.

17 I refer to the two portions of the site
18 differently. What we are addressing tonight is primarily
19 the concerns that we have about wastes that were disposed
20 of on-site in the landfill and in some other areas on the
21 site property.

22 What we had addressed earlier, as I just said,
23 was the ground water contamination that has occurred at
24 that site. A remedy has been chosen for the ground
25 water. That involves what we call a pump and treat

1 system where contaminated ground water will be extracted
2 and treated.

3 Tonight, we're here to talk about the remedy for
4 the landfill and some of the other waste residues that
5 are left behind on the site itself that are sources of
6 contamination to the ground water.

7 And so the purpose of this meeting tonight is
8 for us to present information to you about those -- this
9 remedy and to answer your questions about that and then
10 to get your comments and input from you about that
11 remedy.

12 After tonight's meeting, we will consider your
13 comments and respond to them in writing and make that
14 available to you. And, as necessary, we will revise the
15 clean-up plan and sign what's called a Record of
16 Decision.

17 That will be the decision document that will
18 guide us in what we ultimately do at the site.

19 This is a site at which we have had cooperation
20 so far and expect cooperation in the future from the
21 parties that are responsible for the contamination, the
22 previous owner/operators of the facility, namely, ACC and
23 Texaco Getty.

24 We intend to -- once a decision is made about
25 what to do at the site -- to enter into negotiations with

1 them in hopes that they will conduct the clean-up work
2 that we're discussing here at the site tonight.

3 So the agenda for tonight's meeting will be that
4 I will introduce who the speakers will be. There will be
5 three primary speakers, two in addition to myself.

6 Then I will introduce some other people that are
7 here with my agency and the State agencies and some other
8 interested parties. Then I will ask that you listen to
9 their presentations.

10 Then I would like to introduce the community
11 leaders that may be here and have them introduce
12 themselves, if I overlook any of them.

13 And then I will open it up for questions and
14 comments from the audience. And we will try to respond
15 to as many of your questions and comments as we can
16 tonight.

17 However, it's been my experience that we can't
18 always answer and respond adequately to all the questions
19 that come up. If there are questions that come up that
20 we can't fully address, we will take those with us and
21 respond to you individually, and, as I said, in writing,
22 to all of the comments later.

23 So some of the people that will be speaking
24 tonight -- one of them will be Nancy Johnson. She's to
25 my right, your left. She's an Environmental Engineer on

1 my staff and is well experienced and has been working on
2 this site a number of times. For those of you who were
3 here at the August '89 meeting, she'll be familiar to
4 you.

5 Seated to her right, with the State of Iowa
6 Department of Natural Resources, is Dr. Cal Lundberg.

7 And to his right is Lavoy Haage. Both of them
8 are with the Waste Program in the State Department of
9 Natural Resources.

10 Some other folks that are here with us tonight
11 who, again, may be able to respond to questions, are Jake
12 Joyce. He is with an agency called ATSDR. To make a
13 long story short, he is a health official who works with
14 us and gives us health consultations about potential
15 health problems.

16 His agency is a subdivision of something you may
17 have heard of called the Centers for Disease Control,
18 which is part of the Public Health Service, headquartered
19 in Atlanta.

20 Dave Cozad is here. He's with our Office of
21 Regional Counsel, which means he's an attorney for EPA.

22 And there is also a person here with EPA, Ken
23 Herstowski. He works in our RCRA program, which is
24 another part of the agency's hazardous waste program.

25 He has done a lot of work with Quantum on their

1 existing facilities and compliance with existing
2 hazardous waste regulations.

3 From the EPA Office of Congressional Affairs,
4 Jan Lambert is here.

5 From the EPA Office of Public Affairs, Dale
6 Armstrong is here.

7 And I did not have a chance to meet everyone
8 before the meeting. Is there anyone here from the Iowa
9 Division of Health? We were not sure whether there would
10 be an attendee or not.

11 I don't recognize anyone from there.

12 From the Clinton County Health Department -- is
13 Mr. Todd Vetter here? I haven't had the pleasure. Or
14 anyone from the Clinton County Health Department? Okay.

15 University Hygienics Lab? Are you Rick Kelley?

16 MR. KELLEY: I am Rick Kelley.

17 MR. SMITH: Pleased to meet you. And then from
18 ACC/GCC, Getty Texaco, is Steve Coladonato and Kevin
19 McAnaney.

20 And with Quantum Chemical Company, Bob Schuler.

21 Okay. With that, I will turn it over to you,
22 Nancy, for your remarks.

23 MS. JOHNSON: Hello. My name is Nancy Johnson.
24 And I work for Craig Smith. I am in the Superfund
25 Program. I have worked in the Superfund Program for

1 approximately seven years.

2 I have been involved with this site for a number
3 of years and I have had the opportunity to meet with
4 several of you personally.

5 I am pleased to be here tonight to share the
6 most recent information we have gained from this site and
7 to get your input.

8 The main purpose in my presentation tonight is
9 to discuss with you the preferred remedy for the soils
10 and waste of the Chemplex site. However, in the context
11 of doing this, I am going to be discussing some of the
12 characterization that's been done, some of the site
13 history and background and some information on EPA's
14 decision making process to hopefully give you an idea of
15 why we selected a particular remedy as EPA's preferred
16 remedy.

17 This is a map showing the Chemplex facility.

18 AUDIENCE: Nancy, talk louder. We can't hear
19 you.

20 MS. JOHNSON: Talk a little louder? Okay.
21 Sorry about that.

22 In the corner up here is a polyethylene plant.
23 This is where polyethylene, high density and low density
24 beads are produced. These beads are used to make a
25 variety of plastic products.

1 Over here is an area called the landfill area.
2 And this area has been in operation from about -- it was
3 in operation from 1967 to about 1978. The plant, by the
4 way, has been in operation since 1967. It was operated
5 by ACC Getty Chemical Companies until approximately 1984,
6 and is now operated by Quantum Chemical Company.

7 This area here is called the DAC storage and
8 loading area. DAC, D-A-C, stands for Debutanized
9 Aromatic Concentrate. And this is a product that is
10 produced as part of the ethylene cracking process.

11 In this area here, this product is stored and
12 then it is loaded onto trucks and transported to other
13 facilities.

14 This is EPA's remedy, or clean-up selection
15 process. This is a phase that EPA typically goes through
16 to come up with a final remedy and a Record of Decision
17 document.

18 The first phase of this process is called the
19 Remedial Investigation / Feasibility Study process. As
20 Craig alluded to earlier, this phase of the study can be
21 done either by spending EPA Superfund monies or by
22 responsible parties.

23 In this case, the past operators, ACC and Getty
24 Chemical Companies, conducted this phase of the project.
25 However, EPA did have some control over this by observing

1 the soil sampling that was done, by analyzing in
2 duplicate some of the soil samples at a laboratory and
3 also by reviewing all the reports generated during this
4 phase of the project.

5 EPA then takes this information and -- the
6 Feasibility Study, by the way, is a process where
7 different clean-up alternatives are identified and
8 evaluated. And EPA summarizes this information and
9 selects what is called a preferred alternative.

10 And this information is contained in what's
11 called a proposed plan. We have written a proposed plan
12 dated January 21st. There are extra copies of this plan
13 available if you would like to take a look at it tonight.

14 We are now in the public comment period. This
15 started January 23rd and it is through February 21st. We
16 have what's called an Administrative Record file that
17 includes the Remedial Investigation / Feasibility Study
18 reports, includes the proposed plan and includes any
19 other documents that are relevant in selecting the
20 preferred remedy.

21 And this is available in the Clinton and
22 Camanche Public Libraries as well as the EPA Region 7
23 library.

24 And we encourage you to take a look at this
25 Administrative Record file if you can. And we appreciate

1 your input on the site. And, again, you are welcome to
2 either give us questions and comments tonight or to
3 submit comments in writing by February 21st.

4 We then take this information and we prepare
5 what's called a Responsiveness Summary, which includes
6 all the significant comments and our response to those
7 comments.

8 This is then part of the record. And we take
9 this to develop our final remedy in the Record of
10 Decision document.

11 As Craig pointed out, we were here in the summer
12 of '89 and went through this same process. We had a
13 meeting here in the summer. We got a lot of good public
14 comments and we did come up with a final decision for the
15 ground water, which includes ground water pump and
16 treatment processes, as Craig explained.

17 If any of you have been to the libraries and you
18 have taken a look at any of the documents, the remedial
19 investigation study report is a pretty thick document.
20 It's three volumes big and each of those volumes is about
21 six inches.

22 I don't have time -- we all don't have time for
23 me to go through all of that information tonight.

24 But I do have a couple of slides that has what
25 we feel is the most significant information and

1 information that we thought was important in developing
2 the selected remedy.

3 EPA typically looks at soil concentrations on
4 the surface. In this case, these are the maximum
5 concentrations of soil in the surface that's in the top
6 foot. And this is in parts per million.

7 The reason that we look at that is that there's
8 a potential, if there are contaminants on the surface,
9 that those contaminants could be wind blown and there
10 could be people who might have exposure to those
11 chemicals.

12 In this case, these are the study areas, the
13 landfill area, the DAC area and other areas that refers
14 to all of these areas here.

15 Benzene -- this is PCE, otherwise known as
16 tetrachloroethylene, and PAH's are polynuclear aromatic
17 hydrocarbons. Again, this is not all the chemicals that
18 were found, but these were the main chemicals that were
19 found in these areas.

20 And these were from the highest concentrations
21 to the non-detected. And these were the maximum
22 concentrations found of each of these compounds in these
23 areas.

24 Again, this is not the concentration that's
25 throughout this area. This is just the highest hit on

1 the surface.

2 EPA did an evaluation of these contaminants up
3 to this maximum level. And the results of that is that
4 these compounds that these concentrations do not cause
5 adverse health effects to the people who would be the
6 most likely exposed to these.

7 Another thing EPA looks at is the concentrations
8 of compounds in the sub-surface because these compounds,
9 while people would not be exposed to dust generated from
10 these because they are deep in the ground, there could be
11 potential to contaminate ground water.

12 Again, these are the same compounds, the same
13 areas. These are the maximum concentrations found
14 anywhere in any of these areas.

15 As you can see, there is pretty heavy
16 contamination in the landfill area. It's orders of
17 magnitude above these other areas.

18 And even though there will be a ground water
19 pump and treat system put in place next year to extract
20 contamination in the ground water, we still feel like
21 it's important to try to address this contamination
22 before it gets to the ground water.

23 This is the criteria that EPA uses to make a
24 remedy selection or clean-up selection. Of the most
25 importance is protectiveness. This is protectiveness of

1 human health and the environment.

2 The next criteria is implementability. This is
3 important because whatever clean-up action is selected,
4 it has to be able to address the compounds of concern.
5 There has to be equipment that's readily available to
6 implement the clean-up action.

7 And, in this case, another concern we have is
8 that we do have an operating plant. And we don't want to
9 disrupt their actions anymore than possible.

10 Cost effectiveness is another criteria. Federal
11 and State requirements, it's important that whatever
12 clean-up action is chosen meets federal and State
13 requirements. And -- you know, for example, the Clean
14 Water Clean Air Act and any other federal and State
15 requirements that are applicable.

16 Effectiveness, what this means is that it's
17 important that whatever clean-up action is chosen is
18 effective in maintaining protection of human health and
19 the environment.

20 Community acceptance, that's why we're here
21 tonight to present to our preferred remedy and the
22 information this is based on. And we encourage your
23 input and your comments.

24 There are a total of eight alternatives that we
25 evaluated. I am going to be going through the list of

1 alternatives. And in this discussion, I am going to try
2 to give you a feel for why we feel that some of these
3 alternatives met our evaluation criteria better than some
4 of the other alternatives.

5 The first alternative is the no action
6 alternative. We do not feel that that's an appropriate
7 action for this site. However, we are required by law to
8 evaluate this as an alternative. And it does provide a
9 base line for comparison for all the other alternatives.

10 The next alternative, cap in the landfill area
11 and in the DAC and Polishing Basin areas. And for the
12 other areas, this means a soil and grass cover. And
13 these other areas would be fenced, thereby ensuring that
14 there would not be anymore exposure to these areas.

15 The problem we have with this alternative is
16 that this does not address the decontamination in the
17 landfill that can migrate into ground water.

18 The next alternative is soil, SVE, a soil vapor
19 extraction, followed by a cap in the landfill area.

20 Soil vapor extraction is a treatment technology.
21 And it's been used successfully on a vast number of
22 Superfund sites in the nation.

23 The way soil vapor extraction works, it's by
24 installation of extraction wells installed vertically in
25 the soils. And these are installed above the water

1 table.

2 And this works by applying a vacuum to all of
3 these wells and extracting contaminants through the air
4 spaces in the soil. And after these contaminants are
5 extracted, they are then treated.

6 And we did try this out in the landfill area
7 during the Remedial Investigation phase and it did work
8 very well. And we think that this would be a good thing
9 to do in the landfill.

10 The cost of this alternative is about five and a
11 half million dollars. The cost of this alternative is
12 about eleven and a half million dollars.

13 The next alternative is similar to the last
14 alternative, except it would not incorporate a cap in the
15 polishing basin area. You know, we have taken a look at
16 both alternatives.

17 Essentially, the surface contamination in the
18 polishing basin area is not that great. And we think
19 this alternative would provide about the same amount of
20 protectiveness as the previous one.

21 And this alternative costs about eleven million
22 dollars.

23 The difference between this alternative and the
24 previous alternatives, this alternative calls for SVE,
25 followed by a cap in the landfill, DAC area and polishing

1 basin area. So this would incorporate SVE and the DAC
2 and polishing basin areas in addition to the landfill.

3 SVE was tested in the DAC and the polishing
4 basin areas, as well as the landfill area. It did not
5 work near as well in these two areas as it did in the
6 landfill. Therefore, we don't feel like this alternative
7 incorporates anymore protectiveness than the previous
8 two.

9 And this alternative would cost about fourteen
10 million dollars.

11 The next alternative, SVE cap in the landfill,
12 polishing basin areas, again, like I said earlier, the
13 SVE did not work very well in the polishing basin area.

14 As far as the DAC area, what this would mean
15 would be excavate certain portions of the DAC area and
16 incorporate SVE in some of the other areas of the DAC
17 area.

18 Again, we don't think this provides anymore
19 effectiveness. It also would be difficult to incorporate
20 SVE in the polishing basis and DAC areas because they are
21 operated facilities.

22 By the way, this is the polishing basin here.

23 The next alternative is SVE and then excavation
24 and bio-remediation of the landfill soils and cap the
25 previous basin area. That is that area here.

1 Otherwise, it's similar to the last alternative.

2 We have some concerns about excavating the
3 landfill. You know, with SVE, you don't need to dig
4 anything up. But bio-remediation -- when you excavate,
5 the landfill could cause release of contaminants. And we
6 really don't think we would get anymore protectiveness
7 out of this alternative.

8 The cost of this alternative is about ninety
9 five million dollars.

10 The last alternative, SVE, excavate, and this is
11 incineration of the landfill contaminants and this would
12 also call for excavation and bio-remediation of all other
13 areas.

14 With incineration, it would be effective for the
15 contaminants of concern. However, there would be a lot
16 of administrative requirements, including permits that
17 would have to be obtained to incorporate this. And,
18 again, excavation could cause the release of
19 contaminants.

20 And as far as this part of the alternative is
21 concerned, excavation and bio-remediation of all other
22 areas, keep in mind that the polishing basin area and the
23 DAC area are operational areas.

24 So what this would do would basically mean
25 shutting down those two areas and relocating them. We

1 just don't feel like you would accomplish anymore
2 protectiveness by doing this and have the implementation
3 problems.

4 So we do not think, this would be a good
5 alternative.

6 And the cost of doing this would be about two
7 hundred and seventy million dollars.

8 As a result of that evaluation, this is what we
9 have come up with a preferred alternative, SVE in a cap
10 in the landfill area. There is a portion of the DAC area
11 that we feel like should be capped.

12 And we feel like the cover and this fence and
13 the other areas would be adequately protective of human
14 health and the environment.

15 This is an estimate of the cost for performing
16 the preferred alternative.

17 The capital cost would be approximately eleven
18 million dollars.

19 There would also be annual operation and
20 maintenance costs. This would be in operating the soil
21 vapor extraction system and in maintaining the various
22 caps, covers and fence for other areas, a cost of almost
23 thirty-three thousand dollars.

24 And, again, the actual costs will be developed
25 during the design phase.

1 These are the future activities for the site.
2 Public comment through February 21st, and, again, we
3 encourage your input and your questions and comments.
4 And, like I said earlier, we will develop a
5 responsiveness summary of all the significant comments
6 and our responses to that.

7 And with that information, we will incorporate a
8 final remedy into the Record of Decision document.

9 After that, we will move into the implementation
10 stage for whatever the final decision is. And for the
11 soils and waste, that's the phase of the project we're
12 dealing with now.

13 As we have said earlier, the ground water is
14 already in the implementation stage. We are in the
15 design phase of that right now and expect that to be the
16 -- the ground water system to be built and in operation
17 next year.

18 This is the location of the Administrative
19 Record file, Clinton and Camanche Public Libraries. And
20 also the EPA Region 7 Library in Kansas City, Kansas has
21 copy of the Administrative Record file for your review.

22 You can send your comments in writing to Hattie
23 Thomas. This is her address and our toll free phone
24 number, if you have any questions or comments you want to
25 submit.

1 There are also fact sheets available that
2 contain this same information.

3 Thank you very much.

4 MR. SMITH: Thank you, Nancy. With that, I will
5 ask Cal Lundberg to come up, please.

6 MR. LUNDBERG: I really don't have anything of a
7 technical nature to add to what you have heard to this
8 point.

9 But I will tell you in a thumb nail sketch what
10 the State's role has been in this process.

11 In an investigation and ensuing actions like
12 this, there is an awful lot of documentation that is
13 generated. Nancy has indicated where you can read just a
14 fraction of this stuff.

15 The state has made an attempt and as far as
16 possible with less than one person to do this to stay on
17 top of this. As a result, our role is not primarily that
18 of a technical nature, though we do some technical types
19 of review.

20 We really have fulfilled two other functions
21 more than that. One of these is to identify to the EPA
22 and to the other parties involved what the State's
23 concerns are with regard to applicable regulations that
24 the State may have that will be impacted in the process
25 of the clean-up or things which we feel need to be taken

1 into consideration in addressing a situation such as that
2 at Chemplex.

3 The other activity that we're involved in, which
4 is our most important one, is seeing that the State
5 agrees with the overall direction that the investigation
6 takes and that the remediation which is planned for a
7 site such as this fulfills what the State expects in a
8 situation like this.

9 And I would like to say at this point that the
10 State is in agreement with EPA on the proposed plan for
11 addressing the Chemplex site. So if you have any
12 questions of me, we can address those later in the
13 discussion tonight.

14 MR. SMITH: Thank you, Cal. Before I forget, I
15 would like to invite everyone to please fill out one of
16 the yellow cards that are available at the table over
17 there. There were a number of people coming in at the
18 same time at one point. And I'm not sure everyone had
19 opportunity to fill that out.

20 What that will enable us to do is to get back to
21 you with a mailing so that we can respond to your
22 requests in writing and so you can get future notices on
23 these meetings.

24 With that, I would like to introduce community
25 officials and community leaders who might be here with us

1 tonight.

2 Two that have come to my attention are Mr.
3 Charles Goddard, who is with the Clinton County Area
4 Solid Waste Management Agency. Mr. Goddard. Thank you.

5 And Mr. Robert Tonn -- I hope I pronounced that
6 correct -- with the Clinton Water Pollution Control
7 Board. Thank you.

8 And are there any elected State or other
9 municipal representatives here tonight? I would
10 certainly like to have you be introduced and make a
11 statement if you are here.

12 MS. LE DOUX: Mike Hardesty wanted to be here.
13 He had a letter with him. Bill Bradley, the mayor of
14 Camanche was to be here, but I don't see him.

15 MR. SMITH: Okay. I may have that letter and I
16 am going to get to that in just a minute.

17 The next thing I guess I would like to mention
18 is that we're about to open it up for the comment period.
19 We have a court reporter here with us tonight who is
20 making a record of the meeting so that that can be part
21 of the public record and we can make sure we get all of
22 your comments down completely so that we don't have to
23 take as complete notes as we would otherwise.

24 And for our benefit and for her benefit and for
25 the benefit of the other people that are here, I would

1 ask that you please identify yourselves prior to making
2 your statement so that we will know who you area.

3 We have had two people so far indicate an
4 interest in making a comment or making a statement. I
5 think that would be probably a good place to start with
6 the comments, if these people are prepared with their
7 comments or their statements at this point in time.

8 If you are not and would rather wait until
9 later, that's fine, too. I don't want to put you on the
10 spot, but I just want to recognize your interest.

11 Lynn and Joy Payne indicated a desire to make a
12 statement or make a comment. So if that's a good place
13 to start.

14 MR. PAYNE: Should I come up to the mic?

15 MR. SMITH: Please. Thank you.

16 MR. PAYNE: As you stated, our name is Lynn and
17 Joy Payne and we live in the area.

18 And our biggest concern and wanting to know what
19 is going to happen is with our ground water. We are all
20 on wells and we want to know what the clean-up action is
21 going to be. And a year is quite a ways down the road
22 whenever you're living in it.

23 MR. SMITH: Okay.

24 MR. PAYNE: Thank you.

25 MR. SMITH: We will try to address that.

1 I will address it in part and I will hope that
2 some of the other people that may have more specific
3 information will be able to help me.

4 We, in the course of studying the ground water
5 at the site, have determined that there is indeed
6 contamination of ground water beneath the site itself,
7 beneath the Chemplex site, and that some migration of
8 that contaminated ground water has occurred for a short
9 distance off the site.

10 The remedy that was selected and is in the
11 design phase right now will involve a -- what we call a
12 pump and treat system. It's basically a large withdrawal
13 well system on the plant property that will extract
14 contaminated ground water.

15 And what we call the zone of influence of that
16 pumping well will reach out to capture the contamination
17 that has been released and is in the process of migrating
18 off the plant site. Return that contamination to those
19 wells.

20 It will be pulled out in those wells. That
21 water will go through a treatment system in which the
22 contaminants will be removed. And that water will
23 ultimately be discharged through -- we're not sure
24 exactly where it'll be discharged. It'll be discharged
25 to the river either through the existing treatment plant

1 on the site or through a separate outfall.

2 So that deals with ground water contamination on
3 site or at the plant site.

4 Does that address your question and your
5 concern?

6 I think we can hear you if you would just like
7 to stay there.

8 MR. PAYNE: Well, partially. In your process of
9 pumping this, what's going to happen to the shallow wells
10 in the area if you bother the water table?

11 MR. SMITH: Okay. We're in the design phase
12 right now, which means that we will have more specific
13 information to answer your question fairly soon.

14 Yes.

15 AUDIENCE: Excuse me, what was the question?
16 I couldn't hear.

17 MR. SMITH: The question was how will the pump
18 and treat system on the plant site effect the other wells
19 in the area that people are using for water supply wells?

20 AUDIENCE: Thank you.

21 MR. SMITH: Will it lower them, will it dry them
22 out, is what you are getting at ultimately.

23 It's -- what we -- the design would be set up in
24 such a way that it would have a zone of influence, so to
25 speak, that would be on the plant property to capture the

1 contamination on the plant property and extend to an area
2 off the plant property. But only a short distance, only
3 far enough to capture contamination that's already been
4 released from the site.

5 To the best of my knowledge, there are not any
6 private wells that would be effected by this pumping
7 system. But that's where I would like to make sure that
8 other people who have more information about this can
9 tell me I'm correct.

10 Is that what --

11 MS. JOHNSON: You're concern is that with this
12 pumping, they might dry up your well. It would not do
13 that. The influence would be close to the plant area.
14 It would not cause the water table in your area to go --

15 MR. PAYNE: Well, we've had problems before.
16 When DuPont put in their large well they lowered the
17 water table in our area. Now, that's considerably
18 farther distance to come as the crow flies than what
19 Chemplex or Quantum is now.

20 MS. JOHNSON: Well, there would be not one well.
21 There would be several wells located around it. But they
22 would not have as high a pumping capacity.

23 MR. SMITH: And you know, we have not done a
24 study. I presume when you refer to the DuPont Plant, you
25 are referring to the DuPont plant in Clinton and their

1 production wells?

2 We haven't done a study of what those production
3 wells would have had on your area. And I'm a chemical
4 engineer. I'm not a hydrogeologist.

5 But I would doubt that those pumping wells would
6 have an effect on the wells in your area directly. An
7 effect that may have occurred, but, again, I don't have
8 the data to be able to address it one way or the other,
9 is that the regional water table could be depressed
10 because of use.

11 Again, in this area, the alluvial aquifer of the
12 river is considered a real high yield aquifer. And I
13 would be surprised if that effect actually occurred.

14 However, as I say, we have not done a study of
15 it. I did not know whether Dupont has done a study of it
16 or if there is anyone else here who has information about
17 that.

18 But the plan for the Chemplex clean-up on
19 pumping the ground water would not effect that.

20 MS. JOHNSON: Well, there would be a number of
21 wells, but they would be pumping at a much lower rate, I
22 am sure, than what that Dupont well was pumping at. So
23 it would not lower the ground water table out in your
24 area.

25 MR. SMITH: I have another person who indicated

1 a desire to make a statement. Mr. Dale Dithmart.

2 MR. DITHMART: I pass on this one until later.

3 MR. SMITH: Okay. That's perfectly all right.
4 And then another person who may not be inclined at this
5 point, but thought they might want to make a statement,
6 was a Mr. William Hintz, is that correct?

7 MR. HINTZ: Yes. I would like to talk all
8 night, because this is such a sore subject.

9 MR. SMITH: Okay.

10 MR. HINTZ: I am Bill Hintz. I live in the
11 swamp down there.

12 On the map up there, you had three chemicals you
13 tested for.

14 MS. JOHNSON: Yes.

15 MR. HINTZ: How about arsenic?

16 MS. JOHNSON: Arsenic is --

17 MR. HINTZ: That is a very deadly chemical. And
18 once it gets in your system, it stays there and just
19 keeps building and building until you get enough to knock
20 you out dead. I don't see anything about arsenic
21 testing.

22 There is 500 and some chemicals known in that
23 area. All you talk about is three. Why?

24 MR. HINTZ: You can answer later on.

25 MS. JOHNSON: Okay.

1 MR. HINTZ: Now, you talked about how you're
2 going to fix the dump sites. What are you going to do,
3 throw in a couple buckets of mud and throw some grass on
4 it like you did the other about eight years ago, six
5 years ago?

6 And then you talk about fourteen million it's
7 going to cost. You've got \$270 million dollars down
8 here. And then I see another one costs about \$11 million
9 dollars.

10 What figure, million dollars worth could I put
11 on my wife that died from three different kinds of cancer
12 that caused from any one of the chemicals in there?
13 What's she worth? \$100? It cost me more than that to
14 bury her.

15 You talk about \$270 million dollars. That's a
16 drop in the bucket. She's worth more than that to me.
17 You didn't lose anybody. You live a couple hundred miles
18 away from here. You don't have anything on there.

19 And you talk about soil removing. If it gets
20 bad enough, are you going to dig the dump out and haul
21 the dirt out?

22 AUDIENCE: No, just dump it in Hazel Lake.

23 MR. HINTZ: What are you going to do with all
24 the water and chemicals that's from the dump site already
25 moving downstream? I call downstream downhill.

1 And then you say "we don't think", "I don't
2 think". I think with your education and as my tax money
3 pays your salary, you should be able to say, "I believe"
4 instead of "I don't think."

5 We don't pay you for don't thinking. We want
6 some true answers. You gave me the same run around about
7 eight years ago when we was at the Camanche meeting down
8 there.

9 And then -- what's your name, sir?

10 MR. SMITH: Craig Smith.

11 MR. HINTZ: Okay. You said you was going to put
12 some wells around the dump, what we're talking about
13 tonight. They're good for a short distance of pumping
14 the water up and out of there.

15 Sure, you're going to clean up the water right
16 around there. What you going to do with the water what's
17 already slowly moving towards our wells? You don't think
18 about that. I don't think about it. I know it's coming
19 down there.

20 And we have a very dear friend of mine, Hazel
21 Foley --

22 AUDIENCE: She is my mother.

23 MR. HINTZ: She is right now -- she's in Iowa
24 City hospital very sick. She has cancer. We don't
25 think, we know she has it. Now, why don't you stop

1 saying, "I think" and "we don't know".

2 And you'll come up there and you're going to
3 pump out some water. What are you going to do with the
4 excess water that you pump out? Are you going to pump it
5 into my Mississippi River where I have my houseboat so
6 you can kill the fish so I can't go fishing anymore?

7 AUDIENCE: No, put it in Hazel Lake.

8 MR. HINTZ: You know it killed all the fish in
9 there already. I got some more notes here but I can't
10 read them all. But it burns me up to think that you're
11 going to clean up our water, our environment by putting a
12 couple of loads of clay top of the dump.

13 Sprinkle some grass seed on it, put a fence
14 around it say, oh, that looks pretty. We're looking at
15 the prettiness. We don't worry about that ground water.

16 After we kill everybody off in that area, it'll
17 go away.

18 Now, somebody is dragging their feet around
19 here. It's been eight or ten years we've been fighting
20 ground water. Chemplex, DuPont, dump sites, and there
21 are dump sites that I told you about. They've never been
22 uncovered. They've never been checked out? Why?

23 We pay you to do it. We give you the
24 information and it's up to you people who get paid for it
25 to go out and investigate it. No. If you would live

1 there, if your family is slowly dying off one by one, you
2 would get off your duff and you would spend some time in
3 there and snoop around and see what's going on.

4 That's enough for right now.

5 MR. SMITH: Thank you. There are a number of
6 comments there. And I would like to take them in the
7 order they were presented to try to address them as best
8 we can.

9 The first one that I have down has to do with
10 testing for arsenic in the wastes that were at this site.

11
12 And, Nancy, that's probably one that you can
13 address as to whether there were analysis run on the
14 wastes for arsenic at any point in time.

15 MS. JOHNSON: There were analysis done for
16 arsenic and other metals at the site. Arsenic is not a
17 contaminant of concern at Chemplex. It was not ever used
18 in the polyethylene process.

19 MR. HINTZ: According to the paper the other day
20 it was used in their process.

21 MS. JOHNSON: Do you happen to have that
22 information?

23 MR. SMITH: If you could submit that to us, we
24 would certainly consider that. As I understand what
25 Nancy is saying is that we did a -- we and ACC/GCC

1 conducted a chemical analysis of the waste that's
2 disposed there.

3 And I don't know whether arsenic was detected in
4 that waste or not. But what I hear you saying is that it
5 was not one of the contaminants that was there in high
6 concentrations --

7 MS. JOHNSON: That's correct.

8 MR. SMITH: -- of concern. But we would have to
9 review the data, which we do not have all of it here with
10 us tonight to adequately respond to that comment.

11 Yes.

12 MR. HINTZ: You didn't read up on arsenic very
13 well then if it's just a small amount. A small amount is
14 enough. A minute part in water, either drinking or in
15 taking a bath in it.

16 Once it gets in your system, it stays there. It
17 never flushes out until you accumulate enough of it until
18 where it will finally kill you.

19 MR. SMITH: Right.

20 MR. HINTZ: What's it take seven or eight years?

21 MR. SMITH: I'm not saying that I don't think
22 arsenic is a toxic compound. We're aware that it's a
23 toxic compound.

24 But what there has to be is some method for
25 people to become exposed to it. If it is, and we're

1 going to check the data in the landfill or the ground
2 water, in any concentrations on the plant site, the
3 remedies that are being proposed here tonight will
4 address that concern or address that problem.

5 We do not know of any current cases of anyone
6 being exposed to unsafe level of arsenic or other
7 compounds, now or in the past, through drinking it and
8 other ways.

9 MS. LE DOUX: My ground water has TCE in it and
10 I have lost two people that I loved. And I have had
11 cancer. There are nine houses on that block and seven of
12 them have had cancer.

13 MR. SMITH: Okay. You remind me of the letter
14 that you referred to earlier. And I apologize for not
15 having come back to that. I want to come back to the
16 rest of your comments, Mr. Hintz.

17 But, before we left today, we did receive a
18 letter in our offices. And I saw it for the first time
19 on the way up here. And let me read it to you. It's
20 from the House of Representatives, State of Iowa,
21 Statehouse.

22 And it's not dated. But the second page is
23 dated January 27th, 1993. It's signed by 24 State
24 senators and representative, so legislators. Let me read
25 it to you.

1 It's addressed to EPA, Administrator, Area 7,
2 meaning Region 7.

3 "Dear Sirs, Numerous citizens from around Iowa
4 are very concerned with the remedial action that is
5 proposed for the Chemplex contamination site.

6 "Without knowing the technical aspects of this
7 particular site, or the necessary technologies or
8 methodologies needed to deal with the clean-up of this
9 site, we hope that your agency will pursue this effort
10 with diligence and effectiveness.

11 "As a part of the prescribed clean-up strategy,
12 we ask that a health based study be conducted to
13 determine if residents within close proximity to this
14 site have been exposed to harmful pollutants and if these
15 pollutants have had any detrimental health effects on
16 these citizens.

17 "Local citizens have shown great concern over
18 the years for contamination problems in this area. And
19 with the information now available on the site, it seems
20 only prudent that a health analysis be part of any
21 remedial action plan.

22 "Please consider our request in formalization of
23 your final plan and keep us informed as to the progress
24 of your clean-up and any other information that is
25 available that is available concerning the extent of

1 damage to the local citizens and the environment."

2 So that's the letter. To date, this is the only
3 letter that we have received during the public comment
4 period. But we -- and we take it seriously. We will
5 give it serious consideration.

6 As I said, we just received this before I left
7 the office, like an hour before I left the office to come
8 down here today. We will take this back to our managers
9 and people in authority, greater levels of authority than
10 I, if you will, at EPA. And it will be -- it will be
11 addressed and it will get some attention.

12 I can't promise you tonight that the health
13 study that is requested here will be conducted. But we
14 will, as I say, give it serious consideration. So I am
15 not saying yes or no. I don't have the power to do that
16 tonight.

17 I would point out to you that there has been
18 health information gathered about this site. Some prior
19 to the last meeting and some in the intervening period
20 between the last meeting and now.

21 We were aware that there are a number of grave
22 concerns on the part of people living in the area. In
23 trying to respond to those concerns, the University
24 Hygienics Lab, working with the local county health
25 department, did a series of samples on wells, private

1 drinking water wells in those areas to try to determine
2 what kinds of contaminants were found.

3 Since I didn't conduct the study personally, I'm
4 not intimately familiar with all the details of that.
5 But I am aware that there were some concentrations of
6 trichloroethylene found in some of those wells.

7 None of the values that were found in those
8 wells were above the EPA action level of concern.

9 AUDIENCE: How many years does that have to be
10 though?

11 MR. SMITH: Well, the EPA -- the level that
12 we're talking about of five milligrams per liter. And I
13 will ask a health official to help respond to your
14 question.

15 But the five parts per billion level of TCE is a
16 toxicity level that's based on long-term exposure. The
17 way the calculations are made or it's based on, I
18 believe, a 70 year exposure to persons drinking a certain
19 quantity of water every day during that time period.

20 And at that level, there could be -- the
21 prediction is that at that level, one cancer in one
22 million population could occur. That's my laymen's
23 description of it.

24 What you all have been repeatedly reporting is
25 the evidence of cancer rates higher than that in this

1 area. My point to you is that without more information,
2 it's impossible to know what the contributing causes to
3 those cancers were.

4 Based on the data that we have, we do not think
5 that trichloroethylene contamination in the water is a
6 significant contributing factor. We all must be aware
7 that there are many contributing factors to cancer.
8 There are lifestyle factors of smoking, diet, alcohol
9 consumption. There are occupational exposures.

10 There are other exposure that we have to
11 pesticides and other things that we use in the
12 residential area. And there is not an automatic
13 connection between those -- what we consider low level of
14 contaminants that were found in some of your wells and
15 those cancers.

16 The other point I need to make is that the
17 technical evaluation that we have done tells us that
18 there is no technical connection. There is no physical
19 connection that we know of between the operations at
20 Chemplex and those contaminants that are showing up in
21 low levels in your wells because of what we know about
22 the hydrogeology and the geology and the hydrology.

23 In other words, the water flows in the area.

24 So that's about the -- Jake, did I say that
25 right? Can you add to, delete from?

1 MR. JOYCE: I believe that trichloroethylene or
2 TCE was found in one individuals drinking well at a level
3 of 1.5 parts per million.

4 MS. JOHNSON: It was found in Hazel Foley's
5 well. And I think back in '89, it was found, like, at a
6 level of three. And it's been sampled since then and
7 it's had levels of two and levels of one recently.

8 AUDIENCE: But how many years does she have to
9 drink that by the time you do anything, you know? It's
10 probably been in the well all through this time. And by
11 the time you sample it, how long has it been there? What
12 -- you just found it so it just got there, or how long
13 has it been there.

14 MR. SMITH: Excuse me. Could you identify
15 yourselves and talk loud enough so that at least the
16 reporter can hear?

17 AUDIENCE: I am Hazel Foley's daughter. I don't
18 know much about chemical contamination. I am here for my
19 mother. I can't talk about it right now. I know she had
20 a paper about the contamination of that water.

21 Anyway, I just came tonight to learn more about
22 it.

23 MR. SMITH: Yes, ma'am.

24 MS. AUSTIN: I am Jean Austin. And I have three
25 points I would like to bring out.

1 All this seems to be -- these tests with the
2 drinking water. And from my understanding, some of these
3 chemicals are even more toxic, like if we bathe in them.
4 They go right through your skin, the same way they go
5 through your gastrointestinal system.

6 It's just as bad to bathe in them, which is a
7 lot more water.

8 Also, you are doing this all one by one.
9 Whereas, a lot of these things, the combination is -- I
10 mean, it's not linear. It's not one, two, three, four.
11 I mean, the sum of the parts could be vastly more toxic
12 than you would think.

13 Also, as far as lifestyle is concerned, I can't
14 imagine how the lifestyle of the people out there is that
15 much different than anyplace else.

16 And then if they're not coming from Chemplex,
17 where are they coming from?

18 MR. SMITH: Okay. Again, multiple good
19 comments.

20 Let me go back and try to work -- before I get
21 too far away from Mr. Hintz's comments. We addressed --
22 well, we don't have the data with us, so we can't fully
23 address the arsenic question. But we will get back to
24 you on that.

25 What I wanted to clarify though before we move

1 to something else is that we're not saying that arsenic
2 is not toxic. We recognize that arsenic is a toxic
3 compound.

4 But, to our knowledge, as I say, people are not
5 being exposed to it based on the testing that we have
6 done.

7 Throwing mud on to the dump site and planting
8 grass on it as the remedy, what I would like to clarify
9 here is that there are two important parts to the remedy
10 in the landfill.

11 The first, and probably most important is,
12 what's being described up here as soil vapor extraction.
13 And that's a fancy technical term that basically says
14 that what will happen in the landfill area is that there
15 will be wells installed but they won't be wet wells or
16 water wells.

17 They will basically be cased holes into the
18 landfill. Fresh air will be drawn through the landfill
19 and the waste that's there will be essentially treated in
20 place in that a lot of these toxic compounds that have
21 been listed up here are what we call volatile, which just
22 means they evaporate.

23 If you pull fresh air through it, the compounds
24 tend to evaporate into this fresh. The fresh air is
25 drawn out, treated, the toxic compounds are removed

1 before it's discharged to the atmosphere.

2 If that is done over a long enough period of
3 time, there can be a significant reduction in the
4 concentrations of contaminants that are in the waste
5 that's disposed of there.

6 This was a relatively new technology ten years
7 ago with EPA. It has since been widely applied, has
8 widely been demonstrated to be effective. It will not
9 clean up contaminants to zero, but very few technologies
10 can.

11 The studies that we have done out at the site
12 and that the company has done out at the site indicate
13 that this will be at least a very effective first step in
14 addressing the contamination.

15 And we are hopeful that it will achieve
16 significant reductions in the contaminations at the
17 landfill. And the more so that it will reduce the
18 loading on the ground water, in other words, that this
19 pathway will be broken so that the ground water pump and
20 treat system can work over a period of time because fresh
21 contaminants won't be coming into it.

22 Part of the purpose of the cap over the landfill
23 area, and that could be aptly described as mud and grass
24 is, to protect -- to break the direct contact threat so
25 that workers or other people in the area won't be coming

1 in direct contact with the contaminants that remain
2 behind in the landfill.

3 So that's what the remedy consists of. I can
4 only empathize with you over the loss of your wife. And
5 I know that there is no way for any of us to correlate
6 costs of these actions with that.

7 But I am here tonight to tell you that we are in
8 good conscience looking at these problems as hard as we
9 can. And while there is nothing I can say that can ease
10 that, we take this site seriously and we are committed to
11 investigating the problems and, to the limits of our
12 authority and our technical ability, to make the best
13 judgments that we can.

14 But all I can is I'm sorry beyond that.

15 Movement of the chemicals downstream, we have
16 looked hard at the hydrogeology at the site and at the
17 hydrology. And those are a couple of fancy words that
18 mean that we are convinced that the ground water pump and
19 treat system that will be constructed there will prevent
20 contaminated ground water from moving from this site into
21 private drinking water wells nearby.

22 And we have a monitoring system in place to
23 ensure that that will take place. And if it doesn't, we
24 will require further actions on the part of the company
25 to make sure that it does.

1 Hydrology refers to rather than sub-surface
2 water flow, surface water flow. By that, we mean water
3 that runs off-site from the surface of the site down the
4 stream into the pond or into the lake.

5 We have evaluated that. We have taken some
6 sediment samples in that streamway. We have taken
7 samples of the water as it runs off of the site. And, to
8 the best of our knowledge, that is not a route of
9 contamination off the site into that nearby lake or those
10 surrounding properties.

11 Now, you may refer back to the fish kill that
12 occurred a number of years ago. And we are aware that
13 the State of Iowa is aware of that.

14 We looked at that and there are a couple of
15 important factors that effected that, that make us think
16 that there is not a connection between that and the
17 present contamination that is showing up in at least one
18 drinking water well now.

19 The main difference is that there are two
20 entirely different types of compounds involved. In the
21 fish kill, there was a compound, it was actually a
22 combination of compounds that Nancy referred to. Another
23 fancy name, debutanized aromatic concentrate.

24 What that is is a mixture of primarily four
25 compounds: benzene, ethylbenzene, toluene and xylene.

1 In other words, some big words again. But they are
2 basically a class of compounds that do not have a
3 chlorine molecule on them.

4 There are another class of compounds that do
5 have chlorine molecules on them. And that's with the
6 trichloroethylene that you hear about. Whenever you hear
7 "chlor" in the word, that means that there's a chlorine
8 compound on it. The TCE, trichloroethylene is a
9 chlorinated compound.

10 The fish kill was caused by DAC, debutanized
11 aromatic concentrate. The set of compounds that are
12 toxic enough to kill fish, but don't have that chlorine
13 on them. Some of the things that are showing up in the
14 wells are chlorinated compounds, compounds that have a
15 chlorine on them.

16 What that tells us is that there not at least a
17 long-term connection between that spill and what's
18 showing up in the wells at the site.

19 That's an important piece of evidence to us,
20 too.

21 You want true answers to our questions. And you
22 expect us to be sure. And I think you have a right to
23 expect that. You have a right to expect us to study this
24 site as completely as we can and to be honest with you
25 about what it is that we're finding at the site.

1 We're doing everything in our power to do that.
2 However, there are limits to certainty, even in science,
3 in scientific and engineering pursuits. We feel also
4 obliged to you to tell you what the limits of our
5 certainty are.

6 But I can speak for the team and for my agency
7 in telling you that we are doing everything that we can
8 to make an honest intellectual effort to study the
9 problems and address them in the most rational way that
10 we can.

11 Wells around the site and how the contamination
12 is moving to her wells. Yes. What's been proposed as
13 part of the pump and treat system is a set of small wells
14 where, again, that zone of influence or the capture area
15 of contamination of a well next to another well will
16 overlap or interlock to form a sort of a barrier, if you
17 will, to prevent contaminants from coming off the site.

18 That's how the system will be designed to work.
19 And we wanted monitoring in place to ensure that it works
20 that way. And if it doesn't work that way, we'll go back
21 to the company and make them improve it.

22 And I am sorry to hear that Mrs. Foley is in the
23 hospital in Iowa City. I have not had the pleasure of
24 meeting her. But I sincerely was looking forward to
25 meeting her and talking to her about some of these things

1 tonight.

2 When water is pumped out to the Mississippi
3 River, will it kill fish there? No. What is going to be
4 part of the design for the pump and treat system at
5 Chemplex facility is that the contaminated ground water
6 will be removed from the aquifer beneath the site.

7 What will happen to it then is it will go to a
8 treatment facility that will be built specifically to
9 safely remove those contaminants and see that they are
10 disposed of properly. And clean water, within the
11 definition of State of Iowa's discharge requirements, can
12 then be discharged to the river.

13 And it would be under the terms of the existing
14 treatment permit for the plant. And the State of Iowa is
15 in the process right now of reviewing the NPDES permit
16 limits for the existing plant.

17 And it's my impression that they're doing a good
18 job and that those are pretty tight limits. And that
19 they are set to protect water quality standards in the
20 river. And the ultimate effect on fishing, the reference
21 was to killing fish in the river, will not occur assuming
22 that those limits are met.

23 And, as I said, there is a federally enforceable
24 program to see that those limits are met.

25 Is that accurate, gentlemen from the State?

1 MR. HAAGE: Yes.

2 MR. SMITH: Other sites that you have told us
3 about that we have not discovered, I have been involved
4 with at least -- well, are you per chance referring to
5 the -- what we have called the DuPont/Todtz site where
6 there is a reference to a tanker having been buried at
7 one time?

8 Or is there a different --

9 MR. HINTZ: That's one of them.

10 MR. SMITH: Okay. That one is one that was
11 raised. And I don't remember what the forum was. But I
12 do know that we, in response to that concern, did an
13 investigation looking for that tanker. We worked with
14 the people that we could find who had specific
15 information about where it was buried.

16 We did trenching in the area to try and find it.
17 And we did -- didn't we do magnetometer geophysical
18 testing to try to locate it, and I think made an
19 exhaustive search and never found it. That's not to say
20 that there isn't something out there somewhere.

21 But, based on the best information and our best
22 efforts, we were not able to find it.

23 If you have any specific information, anymore
24 information, any information you don't feel like we have
25 sufficiently pursued, I would like you, if you could, to

1 please put that in writing to the extent that you can
2 give us maps or statements from yourself and other people
3 who are familiar with it.

4 The best documentation that we can get, we will
5 try and pursue it or have the company pursue it. But we
6 need the best hard information that we can in order to be
7 able to respond to that.

8 And then there were three portions of the
9 comment that I have not responded to -- and, ma'am, I'm
10 sorry. I don't remember your name.

11 MS. AUSTIN: Jean Austin.

12 MR. SMITH: Jean Austin. Okay. Thank you.
13 That you had referred to. One was other ways of exposure
14 to the compounds, for example, bathing. And that is a
15 good point.

16 In the -- what we're getting to there is
17 individual drinking water supplies where you all have
18 seen some trichlorethylene in the wells. There are two
19 primary routes of exposure that one is concerned about
20 with that.

21 One is ingestion from drinking the water. The
22 other would be in showering for instance, because the
23 compounds as I said, are volatile. They can evaporate so
24 that when showering some vapors can be generated and in
25 and enclosed space, that could, over a long period of

1 time, pose a hazard.

2 It is my understanding and correct me if I am
3 wrong, that in setting the MCL, that is the Maximum
4 Contamination Levels, in setting this magic number of
5 five that you have heard about, that there is enough
6 buffer in there so that the route of exposure is also
7 considered and covered. And so that's the best response
8 I can give to that.

9 The sum of the parts -- what you refer to is
10 correct and that is that if there are cases where there
11 are multiple different types of compounds that one is
12 exposed to, sometimes the effect of that exposure can be
13 worse than the additive individual effect of an exposure
14 to any one.

15 There is, again, a fancy name for that called
16 synergy, synergistic effects. What our results show from
17 the private wells that were sampled were that there was
18 only one compound of concern detected above the detection
19 limit, but, again, below this action level of five.

20 And so, as a result, those type of synergistic
21 effects would not be seen or would not be exhibited. But
22 that is a concern sometimes at other sites where there
23 are multiple compounds. And it's one of the reasons why
24 it's important that the landfill be treated, as we were
25 discussing tonight, and that the ground water be dealt

1 with at the Chemplex site.

2 And then on the subject of lifestyle, I did not
3 mean to imply that there was anything different about the
4 lifestyles of the people that live in the area that we're
5 talking about.

6 My point, and I think you're probably right,
7 they're probably typical of the general population, but
8 the only way to determine what the causes of the cancers
9 that are occurring is it's a very difficult thing to find
10 out. But the only way to determine that is to look at
11 all the potential forms of exposure that any certain
12 individual might have.

13 And a lot of those things relate to personal
14 habits that are none of my or anybody else's business,
15 but would be part of such a health study if one is to be
16 conducted.

17 To repeat, the use of alcohol, the use tobacco,
18 occupational exposures, the use of certain types of
19 pesticides, family heredity. There are probably a dozen
20 other factors that I haven't named that would have to be
21 considered.

22 And even then, after all that data is collected
23 and people are followed for a number of years, there is
24 still a high degree of uncertainty about what the cause
25 contributing factors were to the cancers or the

1 prevention of cancers for that matter.

2 Each of you read once a week in the paper about
3 some new study in the Journal of the American Medical
4 Association and elsewhere about new compounds that either
5 contribute to or seem to prevent the formation of
6 cancers. And there are different cancers, it's my
7 understanding, among different peoples.

8 There are different contributing factors to
9 different ones. And it is a frightening thing. I would
10 not stand up here and tell you that it's not. I think
11 it's of grave concern to all of us.

12 But it is -- I just need to put it in that kind
13 of a perspective.

14 And, as I say, the letter requesting this type
15 of a health study will be given consideration. I am
16 sorry we didn't get it earlier so that we could have had
17 a response to you tonight.

18 The other, while I am on the subject of health,
19 the other couple of things I should mention, I think, are
20 that what's called a risk assessment or endangerment
21 assessment that focuses on health has been done for the
22 Chemplex site.

23 It is part of the documents that are available
24 in the library. It is part of the RI/FS; the Remedial
25 Investigation and Feasibility Study. It is a thorough

1 exhaustive look by professionals based on the best
2 information that's available to them and to us as to what
3 the potential threats from the site are.

4 And you can read in there about the
5 carcinogenicity of different compounds. You can read in
6 there about what some of the synergistic effects perhaps
7 might be. And what it does is it looks at the possible
8 routes of exposure from these areas to people and the
9 potential risk that's posed by them.

10 What the study basically finds in its
11 conclusions are that, yes, there are some toxic compounds
12 on the site. Yes, some releases have occurred and
13 continue to occur. But they are limited in their area.

14 They are limited to the inoperative and
15 operative portions of the plant site itself, the plant
16 grounds, and to the ground water that we have already
17 talked about is contaminated beneath and immediately
18 adjacent to the site.

19 And that there is enough threat if nothing is
20 done, posed by those contaminants to justify spending
21 many millions of dollars to do this clean-up. Otherwise,
22 all this wouldn't make sense.

23 But what that is it's a look into the future.
24 It's a look down the road that if nothing were done, what
25 could possibly happen at this site? It tries to

1 speculate. And in that speculation, it shows that there
2 would be a potential threat down the road if nothing were
3 done.

4 Hence, there is a need to do something today.
5 And the remedy that we're bringing to you tonight is our
6 attempt to describe that in the most complete, but
7 simple, terms that we can.

8 There has also been a two-county health study
9 that, I think, was done either by the State Division of
10 Health or by the cooperation of the two county health
11 departments that did a survey and evaluation of, I think,
12 cancers in the area.

13 The gist of the results of that, as I understand
14 it, did not really shed any light unfortunately on the
15 problems that are in this area. But that study was done
16 and some of that information may be useful to others who
17 attempt to do something similar to that in the future.

18 Is that accurate, based on what you know?

19 MR. JOYCE: Yes, that's accurate.

20 MR. SMITH: Okay. Thank you.

21 Were there any other comments that I missed and
22 did not at least try to address?

23 MR. BARK: Yes, I have one.

24 MR. SMITH: Yes, sir.

25 MR. BARK: My name is Jim Bark. I'm a resident

1 out there. My concern, like Lynn's is about that
2 shallow water. Because at one time, they had a little
3 lake out by us. They pumped that lake and it dried up my
4 well. I don't know if it dried up anybody elses, but it
5 did dry mine up.

6 Arsenic was found in my well and my concern here
7 tonight is with the Chemplex monitoring.

8 I don't see why they couldn't put a series of
9 wells down there right now to test the shallow water.
10 With the State here I know they got plenty of stuff out
11 there.

12 And all it takes is to go down thirty of forty
13 feet. They could check that once every three or four
14 days and make sure contaminants aren't moving toward
15 other places or my place.

16 MR. SMITH: Okay. Thank you. Again, two parts
17 to that. And I would like some help in addressing this
18 one. Why don't we address the second one first. That
19 would probably make the most sense.

20 Testing shallow wells at the site. There are a
21 number of monitoring wells that are in existence at the
22 Chemplex facility on the perimeter of the Chemplex
23 facility.

24 Do I recall correctly that there are some in the
25 process of being added or is that not correct?

1 MS. JOHNSON: There will be some added. Right
2 now, there are quite a number of wells on the Chemplex
3 facility. And we have found the edge of the
4 contamination at the Chemplex facility.

5 There are actually some wells that are clean
6 there that are being monitored.

7 MR. BARK: Are they south of the site, Nancy?

8 MS. JOHNSON: Yes. They are. They are south
9 and east of the site.

10 MR. BARK: They are south of the landfill?

11 MS. JOHNSON: Right.

12 MR. BARK: Are they being monitored for
13 chemicals?

14 MS. JOHNSON: Right. They are being monitored
15 for chemicals.

16 MR. SMITH: And the reason they are located
17 where they are at is that that is known to be the
18 direction of ground water flow. So if contaminated
19 ground water were to migrate off the site, it would go in
20 that direction. And these wells would see it, so to
21 speak.

22 MR. BARK: When, before it would migrate?

23 MR. SMITH: Yes.

24 MS. JOHNSON: We'll see it at the wells that are
25 already there before we would see it at wells down

1 gradient.

2 The wells that I am talking about are actually
3 closer to the Chemplex facility than the wells you're
4 talking about. And we haven't seen contaminants migrate
5 off the site at that point.

6 MR. BARK: So in other words what you are
7 telling the audience is that contaminants are not
8 migrating off the site.

9 MS. JOHNSON: Well, they have not migrated past
10 a certain point on the facility. They have not reached
11 any residential wells.

12 MR. SMITH: Shall we put the map up here? Can
13 somebody get the map for us?

14 MR. BARK: Yeah, let's see the map.

15 MS. JOHNSON: We do have wells all around this
16 area outside here. We actually have clean wells that are
17 out around this area.

18 Your property is located --

19 MR. BARK: They are testing wells. Is that what
20 you are talking about?

21 MS. JOHNSON: Yes. They're monitoring wells.

22 MR. BARK: Who is testing them?

23 MS. JOHNSON: They are being tested by the
24 company and we collect split samples of those.

25 MR. BARK: You mean they are being tested by

1 Chemplex?

2 MS. JOHNSON: By ACC/GCC.

3 MR. HINTZ: And these wells are south of the
4 creek?

5 MS. JOHNSON: Yes. There are wells south of the
6 creek.

7 MR. SMITH: The other part of the question had
8 to do with -- and forgive me for not introducing you
9 earlier -- but you are Mr. James Borota, and you are a
10 city councilman?

11 MR. BOROTA: No. I'm Mr. Borota.

12 MR. SMITH: I'm sorry. Here he is. You're Mr.
13 Barton. No, excuse me, you are Mr. Bark. Yes, I'm
14 sorry, Mr. Bark.

15 MR. BARK: Bark, that's right.

16 And I am a resident down there and my well was
17 contaminated.

18 MR. SMITH: Well, your well was contaminated
19 with arsenic and as part of the DuPont -- okay. Let me
20 back up and bring the rest of the folks up to speed on
21 this.

22 There is a site, as most of you probably know,
23 near Chemplex, the former Todtz farm where DuPont
24 operated an industrial waste landfill adjacent to the
25 municipal landfill.

1 And arsenic concentrations were found in the
2 ground water below that landfill in some significant
3 concentrations. And your well, it is my understanding,
4 was close enough that it was not contaminated with unsafe
5 levels by the time it was replaced, but did have traces
6 of arsenic in it and since has been replaced.

7 Is that correct?

8 MS. JOHNSON: That's correct. It had a
9 concentration of 30 parts per billion and the MCL for
10 arsenic is 50.

11 MR. SMITH: Again, the magic number, the action
12 level is 50. So, there again, it's a problem that was
13 caught in time hopefully.

14 And that -- so my point of pointing out that
15 that's a different site is that they are far enough apart
16 that there is not significant interaction, we think,
17 between the contaminants from the two sites and the
18 ground water.

19 MR. BARK: But again, you said that the shallow
20 water beyond the landfill is being monitored.

21 MR. SMITH: Yeah. It is being monitored. We
22 established that.

23 MS. JOHNSON: It is being monitored. There are
24 shallow wells and deep wells.

25 MR. SMITH: Okay. And there was another

1 comment, and was it yours, that when someone pumped a
2 pond nearby, your well went dry?

3 Whose comment was that? Was that yours?

4 MR. BARK: That was mine.

5 MR. SMITH: Okay. And I don't -- I'm not -- can
6 you tell us a little bit more about that.

7 MR. BARK: It was the pond next to my farm. And
8 when they were pumping out the water, my well went dry.

9 MS. JOHNSON: Was that Van Dixon Lake?

10 MR. BARK: Yeah.

11 MR. SMITH: Fortunately, Ms. Johnson is also the
12 project engineer for the DuPont site. So we have a
13 wealth of knowledge here with us tonight.

14 We'll make a note of that. And I haven't
15 brushed up on all the hydrogeology in that area, but
16 we're making a note of that. And we will respond to you
17 about that, but I'm not sure it will be part of the
18 Responsiveness Summary or this record. But we will
19 respond to it.

20 Yes, Councilman Borota.

21 Could you come up to the microphone, or just
22 speak loudly.

23 MR. BOROTA: I just wanted to know about
24 something from the earlier discussion. We have shallow
25 and deep water wells. You say you are monitoring

1 individual wells or stations at different levels at the
2 site.

3 MR. SMITH: Well, both has happened over the
4 last year, ten years. The monitoring wells that Nancy
5 described earlier that are on and near the plant property
6 that she just described are monitored, analyzed,
7 checked --

8 Quarterly, is that right? Or semi-annually,
9 quarterly?

10 MS. JOHNSON: Quarterly.

11 MR. SMITH: Then the individual wells that a
12 number of the people have raised concerns about have been
13 sampled on a regular basis, not by us but by the
14 cooperation of the University Hygienics Lab and the
15 County Health Department over the last two years.

16 And maybe Mr. -- I'm sorry, is it Rick Kelley?

17 MR. KELLEY: Yes.

18 MR. SMITH: Can you give us a little more
19 specifics about that?

20 MR. KELLEY: Well, there aren't many specifics
21 to give. The University Hygienics Lab is part of the
22 University of Iowa. We share the concerns of the local
23 residents of the potential effects of the contamination
24 of the ground water.

25 Beginning in February of 1990, working with the

1 local county health departments, we began monitoring the
2 wells in the immediate vicinity of the complex just to
3 determine what sort of exposure might be seen out there
4 and to enable us to determine whether or not there was
5 going to be any fluctuations in that type of exposure.
6 And if concentrations were increasing, we wanted to know
7 that and know it early on and be able to inform those
8 people.

9 So we have been monitoring on a quarterly basis
10 each of those wells. Hopefully, my understanding is
11 anyway, that each of you has been getting the results on
12 a regular basis. As well as providing that information
13 to the local county health department.

14 We have every intention of continuing that for
15 the foreseeable future. We have no cutoff date. We will
16 continue to monitor it until we're assured that, in fact,
17 the situation is being handled satisfactorily.

18 MR. SMITH: Thank you. Yes, ma'am. What's your
19 name?

20 MS. LE DOUX: I'm Elaine Le Doux. I have
21 received the letter just yesterday. There is still TCE
22 in my well, but it's suppose to be at a safe level --
23 whatever that's suppose to mean.

24 MR. SMITH: Mr. Kelley, are you familiar with
25 the results from Ms. Elaine Le Doux's well?

1 MR. KELLEY: From when?

2 MR. SMITH: You said you received your letter
3 yesterday?

4 MS. LE DOUX: Yesterday.

5 MR. KELLEY: As a matter of fact, I brought the
6 last set of analysis with me. Le Doux? You do have some
7 low concentrations of total organic and thridium (ph).
8 Those are apparently the only two that we're picking up
9 at this point.

10 MS. LE DOUX: It said something about TCE, too.

11 MR. KELLEY: TOC. Total organic carbons.

12 MR. SMITH: And that's something different from
13 TCE. Were those analyzed for the halogenated organics?
14 Excuse the technical jargon.

15 MR. KELLEY: Yes.

16 MR. SMITH: I'm including PCE, TCE and they
17 didn't show up above the detection limit, is that what
18 I'm --

19 MR. KELLEY: That would be correct. We did pick
20 up, in one particular well, it picked up a number of
21 hydrocarbons, benzene, xylene. Looking at the
22 composition of the detects in that well, it looked like
23 somebody spilled some gasoline. The rest were all below
24 detection.

25 MR. SMITH: Okay. So no TCE, but some BTEX.

1 The other source of the BTEX that I referred to earlier
2 and as he alluded to earlier can be gasoline, gasoline
3 spills. But this analysis apparently didn't have any TCE
4 in it this time.

5 MS. LE DOUX: That's not what it said on mine.
6 It said it was a low concentration. But he mentioned it.
7 Dr. Cherryholm (ph) mentioned it.

8 MR. SMITH: Dr. Cherryholm, in his letter, he
9 mentioned it in the cover letter?

10 MS. LE DOUX: Yes, he did.

11 MR. SMITH: What I would like to do is go back
12 and we will check -- we'll request copies of that data
13 transmittal and that letter from University Hygienics Lab
14 and then respond to that.

15 Did you bring the letter with you where we can
16 take a look at it?

17 MS. LE DOUX: No, I didn't bring it with me.

18 MR. SMITH: We'll get a copy of it either from
19 you or from them and respond to that in the comments for
20 the meeting tonight.

21 Okay. Is there anyone else who came after the
22 City Council meeting or otherwise that would like to be
23 introduced or would like to make any kind of a statement
24 while I am here?

25 Yes, ma'am.

1 MRS. PAYNE: This isn't in reference to the
2 safety of ground water but I was just curious, was there
3 ever any problem as far as those little beads?

4 Back in the seventies, when we lived out there,
5 they used to haul all the polyethylene out to the
6 landfill and John Doty's. And we used to have the
7 plastic beads all over. I'm just curious about it. They
8 would be all along the roadway and in our yard and it
9 looked just like snow.

10 And the animal residue -- the wild animals left
11 around there had these pellets in their, you know --
12 number two.

13 Was there ever any problem with that stuff, all
14 those beads being hazardous to the residents out there?

15 MR. SMITH: Can you address that? That's not
16 something I am specifically familiar with.

17 There also are some --

18 MRS. PAYNE: Well, it's closed up now.

19 MS. JOHNSON: The John Doty landfill?

20 MRS. PAYNE: Yeah, that's right. Up at the end
21 of the street almost. There was a lot of it I was
22 curious about it.

23 MR. SMITH: Let me ask the person who knows the
24 most about it.

25 MS. JOHNSON: You know, as far as the

1 polyethylene beads themselves, we have never known of
2 them as causing any health hazards. These wastes we're
3 talking about are wastes that are part of the process not
4 the product.

5 But we don't know that polyethylene itself as
6 being a hazardous substance.

7 MR. SMITH: It's basically the same material
8 that's -- I'm sorry.

9 MR. HINTZ: (inaudible)

10 MR. SMITH: Mr. Hintz, if you could just talk
11 loud enough so I can hear you and so we can respond to
12 the --

13 MR. HINTZ: Oh, so she says these beads are not
14 toxic.

15 MS. JOHNSON: Polyethylene is not known to be a
16 hazardous substance.

17 MR. HINTZ: In other words, I could scatter it
18 around my yard, and in the sandbox and let my grand kids
19 play in it safely, right?

20 MS. JOHNSON: Well, I don't know if you would
21 want them swallowing it.

22 MR. HINTZ: Well, yes or no. Yes or no. Is it
23 or isn't it?

24 MS. JOHNSON: Well, not from a contaminant
25 standpoint, but I don't think you would want them

1 swallowing a bunch of it.

2 MR. HINTZ: Then it is harmful.

3 MS. JOHNSON: Well, I mean, just like any -- you
4 wouldn't want your kids, grand kids swallowing any
5 plastic beads.

6 MR. HINTZ: It's either harmful or it isn't. It
7 should either be put in the dump or it shouldn't be put
8 in the dump, which is it?

9 MR. SMITH: Well, what you're talking about,
10 it's my understanding, is the -- are they high density,
11 low density polyethylene beads?

12 MR. HINTZ: Well, it's been a few years ago.

13 MR. SMITH: It's my understand that that's a
14 product that's one step away from being turned into a
15 finished plastic, is that correct? In other words, it's
16 a consumer item.

17 MS. JOHNSON: It's a product.

18 MR. SMITH: It's a product that's readily used.
19 And now days recycled. And maybe there is someone from
20 the company who can address this as to what they are used
21 for and ways in which they are in common use.

22 Anybody have any ideas? Steve or anybody?

23 No comments. Okay, yes sir.

24 MR. BOROTA: I have one other comment from an
25 earlier comment I heard about pumping water that is

1 suppose to be clean back into the river. Are they allow
2 to pump a certain amount according to the flow of the
3 river to make it legal?

4 Another company put in the gauging station to
5 monitor the flow of the river and would dump according to
6 the flow of the river? Is this going to be the same kind
7 of situation to make it all legal?

8 MR. SMITH: I don't know about how specifically
9 how the NPDES permit is written or will be written. Do
10 you, Lavoy or Cal, from the State's standpoint, I know
11 that's not your program area. But you might know.

12 MR. HAAGE: Yeah. I'm not familiar with how
13 they propose to do it now. But that could be a
14 possibility.

15 MR. SMITH: We're talking about, would the
16 discharge be to the Mississippi River or would it be to
17 the tributary?

18 MS. JOHNSON: It would be to the Mississippi
19 River. And it would be either through the permanent
20 discharge from Quantum or some other discharge that would
21 have to go through the same process.

22 Through the permit, there are certain levels
23 allowed.

24 MR. BOROTA: What I'm saying is that they could
25 possibly use the river to their advantage. Every time

1 the river is high, they're allowed to dump more into the
2 river to contaminate it and get rid and that's what I'm
3 concerned about.

4 MR. SMITH: Bob Schuler is here from Quantum,
5 who is familiar with their existing permit and their
6 plant operation. Can you shed any light for us on that,
7 Bob?

8 MR. SCHULER: I can. The NPDES permit is in a
9 majority of cases is not related to flow. It's related
10 to concentration and does not take into account the river
11 flow. It is based on the lowest flow that you can get,
12 ensuring that you don't exceed a worst case at the lowest
13 river flow.

14 MR. BOROTA: But you release according to the
15 flow of the river, right?

16 MR. SCHULER: No. That is not what I said.

17 MR. SMITH: Yes. Mr. Hintz.

18 MR. HINTZ: How many GPM gallons have you dumped
19 in the river now, may I ask?

20 MR. SCHULER: It's variable. The average
21 permitted flow is about 2.1 million gallons a day.

22 MR. HINTZ: And is that the maximum that you can
23 dump into the river?

24 MR. SCHULER: No. It's not the maximum.

25 MR. HINTZ: Is it monitored, that water that you are

1 dumping in now?

2 MR. SCHULER: Yes.

3 MR. HINTZ: Do you ever get into the outlet of
4 the river where it goes in?

5 MR. SCHULER: I don't understand.

6 MR. HINTZ: When your sewer line or whatever you
7 call it goes into the river, have you ever monitored
8 beyond that point?

9 MR. SCHULER: The monitoring point is where the
10 water goes into the pipe that goes into the river.

11 MR. HINTZ: Do you ever monitor that pipe where
12 it dumps into the river?

13 MR. SCHULER: It has been. But, not recently.

14 MR. HINTZ: I think you should. I've been down
15 there within the last half a year. It's terrible.

16 MR. SCHULER: That simply is not true.

17 MR. SMITH: If there were some follow-up
18 questions on the discharges to the river to be pursued
19 with Iowa Department of Natural Resources, who would Mr.
20 Hintz or other people contact?

21 MR. HAAGE: Probably Wayne Farrand.

22 MR. SMITH: Wayne Farrand. Could you spell that
23 for us, please?

24 MR. HAAGE: F-A-R-R-A-N-D.

25 MR. SMITH: Wayne Farrand at IDNR. That's what

1 I'm understanding would be the person to follow up on
2 that.

3 Okay. Any other questions or comments?

4 Yes, sir. Could you please identify yourself?

5 MR. MENSINGER: Yes. My name is Robert
6 Mensinger (ph). I came in late. I read in the paper the
7 chemicals, chlorine, naphthalene, pyrene, xylene. How
8 are these chemicals synthesized at this facility. These
9 are typically coal tar derivatives.

10 MR. SMITH: Right. Maybe someone can explain
11 how in the process these come to occur and are generated
12 as part of the waste, or in the process Chemplex used.

13 MR. MENSINGER: I think another was anthracene.

14 MR. SMITH: Right. The PAH's.

15 MR. MENSINGER: These are typical coal tar
16 compounds.

17 MR. LUNDBERG: Yeah. But they are also found in
18 many cases where you have combustion or cracking
19 processes also. It's not exclusively coal tar.

20 MR. MENSINGER: How could you have all that
21 breakdown.

22 MR. LUNDBERG: But it's not all breakdown. Some
23 of that is synthesized.

24 MR. MENSINGER: Anthracene is pretty heavy
25 stuff.

1 MR. LUNDBERG: Yes. It is. Xylene is not one
2 of those compounds, by the way.

3 MR. MENSINGER: I did see it in the paper.

4 MR. LUNDBERG: Well, it may be in the paper, but
5 xylene is not one of the PAH's.

6 MR. SMITH: Maybe there is somebody -- I'm
7 sorry. I just wanted to try and get us some help from
8 somebody from the company who may be more familiar with
9 the process.

10 Steve. Or somebody from Quantum. Bob, are you
11 familiar with the process to know how the PAH's were
12 generated in the waste initially?

13 MR. SCHULER: There were trace quantities
14 generated by the cracking process. As I have already
15 said, any time you have combustion or a breakdown of
16 hydrocarbons it generates more. They're generated in
17 your internal combustion engine in your car. They're
18 generated when you burn wood in your fireplace.

19 MR. SMITH: So what are they cracking to make
20 this -- is it petroleum?

21 MR. SCHULER: It's gases. Methane, propane
22 primarily.

23 MR. SMITH: Gas, natural gas.

24 MR. SCHULER: No. It's not exactly natural gas.

25 MR. SMITH: Okay.

1 MR. MENSINGER: I would like to see an equation
2 for that. What are the limits of this stuff? And have
3 they been exceeded. Were they toxic or have they
4 exceeded the limit that is allowable?

5 MR. SCHULER: You are referring to the location
6 of the waste?

7 MR. MENSINGER: Well, where ever these chemicals
8 were.

9 MR. SCHULER: They are part of the process.

10 MR. MENSINGER: Anthracene?

11 MR. SCHULER: Yes.

12 MR. MENSINGER: No, it's not.

13 MR. SMITH: Okay. Any other questions or
14 comments?

15 Yes, sir.

16 MR. MURPHY: I guess I've got one here. I am
17 Alan Murphy. And I am representing the Clinton County
18 Isaac Walton League, and I am also one of the residents
19 of the area.

20 I heard tonight the main concern from my
21 neighbors out there and that is basically what are we
22 drinking that's going to kill us? And Chemplex is saying
23 nothing. DuPont -- a couple of years ago, we went
24 through the same procedure we're going through now. And
25 they said nothing.

1 With the exception of a little bit of arsenic
2 showing up here and a little bit of TCE showing up there.
3 And we've also now got another company to our north
4 that's right now got some pretty nasty ammonia spills
5 coming out upon the surface of the ground which the DNR
6 is aware of.

7 We were out last February, I believe it was. We
8 took soil samples and so forth. And it was a rather
9 alarming amount of ammonia being generated out of the
10 ground at two different points on the John Doty farm.

11 Basically I guess is what I am trying to say is
12 we can't point out finger at the people at DuPont. We
13 can't point our finger at the people at Chemplex. We
14 can't point it at Arcadian. We can't point it at the two
15 sanitary landfills that are on either side of us.

16 But between the five sites, we do have some
17 problems out there or we wouldn't be here tonight, any of
18 us, if there wasn't problems in the area.

19 And it seems to me, and I asked for in my letter
20 on the DuPont clean-up, was looking at what was the
21 possibility of getting us some city water so that even
22 though we're held hostage in the area because of the land
23 values diminished over the years from the adverse
24 publicity of all these Superfund sites and that, at least
25 we can be provided with clean water.

1 And it seems to me it isn't DuPont's problem.
2 It isn't Chemplex's problem. It isn't Arcadian's
3 problem. It's everybody's problem. Everybody who's
4 involved with the landfill sites around there.

5 I visited with the city council on this. And
6 they said, well, yeah, we'd really like to get clean
7 water out there. But the city can't afford to get it
8 there.

9 Well, it seems to me a combined effort could be
10 generated through these hearings and maybe get something
11 out there to us so at least we know we're drinking clean
12 water out there.

13 We're just going to have to live with being held
14 hostage as far as being able to ever sell our properties
15 out there because the publicity from just hearings like
16 this would deter anybody from coming and buying.

17 But at least we would have controlled quality
18 water coming to us and we wouldn't be guessing every
19 three months now. They sample our water every three
20 months and it's been greatly appreciated. It's
21 approximately 30 days after they sample that we get the
22 results back. And we've got a four month exposure
23 between samplings that we could be ingesting something
24 harmful.

25 And we have heard tonight -- you know, Jim's

1 well showed up 30 parts per million or billion of
2 arsenic. And I visited with Peter Cicero, of the
3 Hygienics Lab on this.

4 And he says, today 50 parts is considered
5 hazardous to your health. But there's nothing saying
6 that five years from now, 20 parts isn't going to be
7 proven to be hazardous to your health. These are unknown
8 figures.

9 Your brought it up earlier that, to the best of
10 anybody's knowledge today, yes, these are the figures
11 that we can safely ingest. But five years from now, we
12 might say, whoops, we shouldn't have ingesting half of
13 this amount.

14 So, like I say, I requested in my letter that we
15 sent to Washington, D.C. to the judge on the Dupont
16 hearing and it will be incorporated in my letter again.
17 But I think some harmony ought to be set up between the
18 parties that are responsible for these hazardous waste
19 sites and get us something safe to drink.

20 At least we can have that much out there.

21 Thank you.

22 MR. SMITH: Thank you.

23 AUDIENCE: And we shouldn't have to pay for it
24 either.

25 MR. SMITH: Let me address again the multiple

1 comments. I appreciate that.

2 MR. HINTZ: I got one more thing to say.

3 MR. SMITH: Okay.

4 MR. HINTZ: Everybody involved out there can do
5 what I did. I've been paying taxes, a big share of money
6 for 30 years. And I just sold my house, my property for
7 \$1,200 cash.

8 How would you like to sell your house for
9 \$1,200? How would anybody like to. There is nobody out
10 here in that area can't afford to give away a house like
11 I did.

12 The year after my wife died, a little bit after
13 a year, I remarried. And I live in Clinton now.
14 Hopefully, I'm drinking clean water. But I still have
15 feelings for my area down there.

16 MR. SMITH: Okay. Let me --

17 MR. HINTZ: But I have been paying all these
18 taxes all along.

19 MR. SMITH: Okay. Let me respond to Mr. Murphy
20 first and then we'll get to that one.

21 A number of issues you raised regarding the
22 company to the north with ammonia spills. And I had
23 inferred when you were talking about that that it was
24 Arcadian.

25 And in ammonia that had showed up on the John

1 Doty farm, that's the same place where the beads were
2 reported to be disposed of?

3 MRS. PAYNE: Yes.

4 MR. SMITH: That's spelled D-O-T-I-E?

5 MRS. PAYNE: D-O-T-Y.

6 MR. SMITH: D-O-T-Y? Okay. Now, the State and
7 EPA split up lead on a number of these sites. And most
8 of the work on Arcadian has been done by IDNR to date.
9 But I'm not sure that they have the people here who are
10 familiar with and who have worked on that site.

11 Can either of you address --

12 MR. LUNDBERG: The field office --

13 MR. MURPHY: Jim Seevers went to the field with
14 me. He wrote me a letter, I want to say last -- I want
15 to say April or May. And, in his letter, he said that he
16 was referring anything further to a gentleman that was
17 working directly with Arcadian now and that he would be
18 getting in touch with me as far as what was happening in
19 that over there.

20 This was actually to the Isaac Walton League
21 versus myself personally. I am president of the Isaac
22 Walton League, so he was communicating with me. But at
23 this date, I have had no response from them.

24 MR. LUNDBERG: Well, there is miscommunication
25 there because I am "that gentleman".

1 MR. MURPHY: Well, Jim said you would be getting
2 a hold of me and letting me know what --

3 MR. LUNDBERG: We are working with Arcadian to
4 investigate Arcadian's ground water problems. That's
5 still in its infant stage right now.

6 MR. MURPHY: Okay. Well, see, that flow -- I
7 don't know if you've been over and examined it or not,
8 but that flow is draining directly in a rather large
9 stream of water and is flowing out all the time directly
10 into Rock Creek.

11 And the Isaac Walton League was looking at some
12 marsh land down there and possibly purchasing that. And
13 we got in contact with your organization to see if there
14 could be any adverse effect to the wildlife and so forth
15 in that marsh area with the amounts that were coming in.

16 And evidently the pollution rate is keeping it
17 from being harmful at this point. But there is one area
18 that's half the size of this room that's completely
19 devoid of vegetation at all. And running the stream
20 probably -- at the time we were there, about four, four
21 and a half inches wide and it appeared to be a half inch
22 deep directly into the creek.

23 The other area, you could put about three or
24 four rooms like this in. Now, that's directly to the
25 south of the railroad tracks. There is probably a buffer

1 zone of about 100, 150 feet to the railroad tracks to
2 where this ammonia is bubbling out of the ground and
3 entering directly into Rock Creek.

4 And that's a major concern.

5 And that's why we're anxious to hear something
6 and see what is involved here. Now, in the meanwhile,
7 we're out of the picture as far as purchasing any of that
8 marsh. We have an active interest in the property.

9 But, still, it's in the general area where I
10 live. It's also a fantastic wildlife area for the area
11 and we hate to see something like that go unchecked.

12 MR. LUNDBERG: If you want to, we can talk about
13 that afterwards.

14 MR. MURPHY: Very good.

15 MR. SMITH: Thank you. Your next point was what
16 about getting some city water out there through a
17 combined effort of the companies and the landfill
18 operators and the residents.

19 The short answer is that's probably not a bad
20 idea. That's a pretty good idea. But I can't say that
21 in my role necessarily as an official from Superfund
22 because we don't have the legal authority to either do
23 that or require the companies to do that or to require
24 you as individuals to do that because the levels of
25 contamination that we're seeing there are not high enough

1 to trigger that kind of an action.

2 As we have said, they are below any of our
3 established action levels. But it sort of ties in with
4 your next point, which is that from time to time, new
5 health effects data does come out. And we have to review
6 that data and revise our action levels, either up or
7 down, depending on the new data shows.

8 And sometimes they go up, sometimes they go
9 down. We can't predict at this point in time which
10 direction they're going.

11 And about all I can say is that it would be
12 prudent for that to be done. In other words, for the
13 water supplies to be replaced by a safe central supply.
14 But I'm not in a position to do that for you or require
15 any of the companies to do that for you at this point.

16 But, to the extent that that could be done
17 voluntarily, I would think just as a matter of good
18 engineering practice, it would be a wise thing to try and
19 consider and to try and do somehow.

20 I appreciate your acknowledgement of
21 appreciation of the sampling. We, too, appreciate the
22 efforts of University of Iowa, University Hygienics Lab
23 in doing that sampling.

24 I want to recognize them for that tonight and
25 the cooperation on the part of the county health

1 department, which they are not here to thank,
2 unfortunately. But we appreciate their work, too.

3 I already addressed the issue about how safe
4 levels can change over time.

5 And then, if that covered all yours, Mr. Murphy,
6 Mr. Hintz' comment regarding having to have sold property
7 for \$1,200 is, of course, something that falls into the
8 same category as the drinking water, an alternate
9 drinking supply.

10 It's not something, unfortunately, that we have
11 any legal authority, at this point in time, to do
12 anything about. So, again, I am sorry about that.

13 But we're limited in what we can do or require
14 the companies to do in that regard.

15 Are there any other questions or comments? Yes,
16 ma'am.

17 MRS. PAYNE: How long has the EPA been involved
18 in monitoring Quantum or Chemplex?

19 MR. SMITH: And you are Mrs. Payne?

20 MRS. PAYNE: Mrs. Payne.

21 MR. SMITH: How long have we been monitoring the
22 dump sites there? Quantum's and Chemplex's you referred
23 to.

24 MS. JOHNSON: I know that investigations there
25 started prior to 1984.

1 MR. SMITH: When was the site proposed for the
2 NPL?

3 MS. JOHNSON: It was proposed in 1984. So there
4 were some limited investigation that took place before
5 that to score it on the NPL. It probably started in '82,
6 '83

7 MRS. PAYNE: That's what they had to file to
8 take out a dump site there on the Chemplex property, is
9 that what you mean? Do they have to get permission from
10 you to have a dump out there?

11 MS. JOHNSON: No. To put the --

12 MR. SMITH: When that was done, there weren't
13 many or any regulations concerning where you put dump
14 sites.

15 MS. JOHNSON: That's right. That was in '67
16 when they started dumping waste in that landfill. And
17 they dumped waste there until '78. Superfund didn't even
18 come about until 1980. And RCRA didn't come about till
19 then either.

20 MR. SMITH: Yes, sir.

21 MR. SNYDER: My name is Jim Snyder. And I am
22 just wondering regarding what you just said, Nancy,
23 concerning the time frame of the dumping, if you want to
24 call it that, occurred. Does that make Skelly or ACC
25 civilly or criminally liable for those actions?

1 Or are we saying that they have no culpability
2 then because they violated no federal or state dumping
3 regulations that were in place at the time?

4 MR. SMITH: Well, you have a couple engineers
5 answering a legal question. But I will try to do the
6 best I can.

7 The answer is kind of yes and no. What they
8 were doing in operating the landfill was, at least as far
9 as we know, legal at the time it occurred, back in the
10 '70's and even up until the early '80's, perhaps back
11 into the '60's.

12 And this is true of not only this landfill, but
13 also the one at DuPont, for instance, that's also come up
14 here.

15 And so, in that sense, what they did was legal
16 at the time it was done. If they were to do it today, it
17 probably would not be. But the law is not retroactive in
18 that sense.

19 However, Superfund is a unique environmental
20 statute in that it reaches back for these older
21 facilities and says that if there are hazardous
22 substances there that are hazardous enough and a release
23 occurs, that the companies that place the wastes there in
24 the first place are responsible for doing the studies and
25 the clean-up actions basically.

1 There are no punitive measures in the law as
2 long as the company does that, in cooperation with EPA.
3 And, hence, there is no criminal sanctions or penalties
4 that come into it. Unless a company knowingly lies to
5 EPA or fails to notify of a spill or a release or a dump
6 site that they know about, then there are potential for
7 criminal sanctions, penalties.

8 But that's not in any way -- there's no
9 indication of that here at all. There is another
10 provision where if companies refuse to voluntarily clean
11 up the sites, we can order them via a legal
12 administrative order process to do the clean-ups.

13 If they refuse to comply with that order, then
14 we have a number of choices. We can go to federal court
15 to get them -- to compel them under court order to do the
16 clean-up. We can do the clean-up ourselves and recover
17 not only the cost of the clean-up, but three times the
18 cost of the clean-up, plus numerous penalties on top of
19 that.

20 And there are some other alternatives. But
21 that's not happening at this site. To date, and we hope
22 into the future, we will continue to enjoy the
23 cooperation on the part of the company who has spent a
24 lot of money doing the studies and the design and the
25 clean-up work so far.

1 But those are the aspects of the law that we
2 have available to us. Is that accurate enough?

3 MR. COZAD: Yes.

4 MR. SMITH: Okay. Thank you. Any other
5 questions or comments? Yes, sir.

6 MR. SNYDER: I have a question about the action
7 levels that you discussed at the wells that were tested
8 in the private sector, so to speak.

9 Over the plant site itself in the ground water,
10 are the test results there, do they indicate
11 statistically significant levels that would be much
12 higher than acceptable as far as your minimal allowable
13 concentrations? Isn't the ground water right over the
14 Chemplex site, which is now Quantum, are the levels you
15 discovered there significantly higher?

16 MS. JOHNSON: Yes.

17 MR. SMITH: The levels in the ground water
18 beneath the site.

19 MR. SNYDER: It truly would represent a health
20 hazard?

21 MR. SMITH: Yes. If someone were drinking that
22 water or using it for other purposes, yeah, it would be a
23 problem. They are well over these MCL's we keep talking
24 about, the magic numbers or action levels, they're well
25 over those values.

1 And that's part of the reason that action needs
2 to be taken so that years into the future, that won't
3 spread and contaminate a larger area than it already has.

4 MS. JOHNSON: That's correct.

5 MR. SNYDER: So confinement is part of the game
6 plan?

7 MR. SMITH: Right. Any other questions or
8 comments?

9 MR. BOROTA: What do they do if they do on-site
10 construction at the facility. What if there is something
11 in the ground and they know it exists, maybe you guys
12 don't know about it. They went in there and a
13 construction worker was in there working and they run
14 into this, say, fumes coming out all of a sudden and they
15 breathe it?

16 MR. SMITH: Well there are two answers to that.
17 One is that there will be access controls and access
18 restrictions on the areas at the site that are known to
19 be contaminated. And it will be the responsibility of
20 the property owners and the company, that being the city
21 and Quantum, to ensure that their workers aren't
22 exposed -- don't get into those things accidentally and
23 are injured.

24 That was part of one of the remedies, part of
25 the selected remedy that I think Nancy had described

1 somewhat earlier.

2 The other part of the answer is that Quantum,
3 and, here, we probably ought to let Bob Schuler address
4 it. I assume has some kind of internal health and safety
5 protocol and rules and controls in place to address that
6 kind of thing for construction on their site.

7 That's typical in an industrial installation.
8 but maybe you can probably address it better than I.

9 MR. SCHULER: Quantum does indeed have health
10 and industrial hygiene programs. Any excavations of the
11 grounds will be controlled and monitored.

12 MR. SMITH: Does that answer your question?

13 MR. BOROTA: Yes. Thank you.

14 MR. SMITH: Okay. You're welcome. Any others?

15 Okay. As Nancy indicated, if there are any
16 other questions or comments that occur to you, the
17 comment period is formally open until February --

18 MS. JOHNSON: 21st.

19 MR. SMITH: -- 21st. So please send them to the
20 address that's available on the handout that's available
21 over there.

22 I want to thank you all very much for coming out
23 and for providing the input and your comments tonight.
24 It's been a very useful part of the process. I think you
25 very much.

1 One more. Hold on.

2 MR. SNYDER: You mentioned earlier there was
3 some other documents here available if we wanted to look
4 at the proposed plan.

5 MS. JOHNSON: That's right. We have the extra
6 proposed plans over at that desk.

7 MR. ARMSTRONG: We also have a explanation of
8 the risk assessment process.

9 MR. SMITH: Thank you all very much for coming,
10 and good night.

11
12 (Whereupon, at 9:25 p.m., the public meeting was
13 concluded.)
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This is to certify that the attached proceedings
before: ENVIRONMENTAL PROTECTION AGENCY REGION VII

In the Matter of:

PUBLIC HEARING

CHEMPLEX FACILITY
Clinton, Iowa

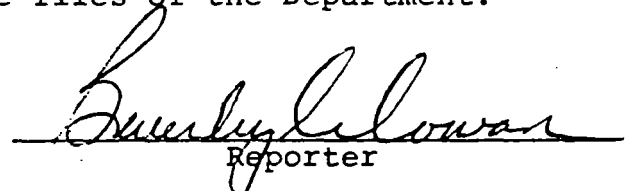
Docket Number:

Location: Clinton, Iowa

Date: Tuesday, February 2, 1993

Presiding: Mr. Craig Smith

were held as herein appears and that this is the Original
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