

1 BEFORE THE  
2 ENVIRONMENTAL PROTECTION AGENCY

3 In the Matter of: )  
4 )  
5 PUBLIC HEARING ON )  
6 CRYSTAL CITY AIRPORT )  
7 SUPERFUND SITE )  
8 )  
9 )

7 Fry Junior High Cafetorium  
8 Crystal City, Texas

9 Thursday,  
10 August 20, 1987

11 The above-entitled matter came on for hearing,  
12 pursuant to notice, at 7:05 p.m.

13 APPEARANCES:

14 For the Environmental Protection Agency:

15 Lynda D. Brownlow  
16 Stan Hitt  
17 Bob Chapin  
18 Jim McGuire  
19 Greg Tipple

20 For the Texas Water Commission:

21 Sherril Thompson  
22 Martyn Turner

23 For the Agency for Toxic Substances and Disease  
24 Registry:

25 Carl Hickham

For the Texas Department of Health:

Richard Beauchamp

For the Texas Aeronautics Commission:

Alan Schmidt

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Speakers:

- Mayor Jose Mata
- Enrique Guzman
- Alejandro Nini
- Marilu Mambigiani
- Nina Mancada
- Rudy Rodriguez
- Henny Daly
- Dorothy Galvan
- Polly Lopez
- Charles Carr

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P R O C E E D I N G S

MS. BROWNLOW: Good evening. I am Lynda

Brownlow. I work for the United States Environmental

Protection Agency out of their Region 6 office in Dallas,

Texas. We are here tonight to talk to you about your

Crystal City Airport Superfund site

I want to welcome you. We are very glad you are

here. We had a wonderful meeting this afternoon with your

Mayor. Your City Manager and a number of other people. It

was just excellent. They greeted us warmly and we are glad

to see a lot of them here tonight, and a lot of you. And,

I would like to take just a minute to explain

how we would like to proceed, if it is all right with you

all. First of all, when you came in we gave you a white

card. That white card helps several ways.

First of all, it allows us a record of all we

have; it allows us to add your name to a mailing list so we

are certain that you remain involved. And at the bottom

portion of that card, there was a place where you could

indicate - and you all may indicate -- whether you would

like to speak at our. You don't have to make up your mind

about speaking right now. But when you do, if you should,

pass your card to Roberta Hirt -- Roberta, would you please

your hand, so they know who you are -- to Roberta Hirt and

she will get those cards to me.

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1 We would like to begin tonight with an overview  
2 of Superfund; what it means, when it came about, and what  
3 not -- and then go on to some technical, pluralizations, and  
4 then turn it over to questions and answers.

5 Before we do that, however, I want to recognize,  
6 first of all, Eusebio Guzman, your City Manager, and thank  
7 him very much for the help that he has given me -- given  
8 all of us. Secondly, Gracie Rodriguez from Congressman  
9 Bustamente's office, would you wave at us please? Thank  
10 you, Gracie.

11 And I would like to introduce to you the EPA  
12 staff and Texas Water Commission staff who aren't up here,  
13 and I will name these people to last. First of all, there  
14 is Sherill Thompson with Texas Water Commission; she does  
15 community relations. And then there is Greg Tipple, who  
16 works for Superfund; and Bob Chaplin, who is the assistant  
17 chief of the Superfund's section for the state of Texas.

18 Up here with me are Glen Hill -- Glen is the  
19 section chief for the remedial section concerned with  
20 Texas, in our office. This is -- I am going to do this  
21 without looking -- this is Marilyn Turner, and Marilyn has  
22 been responsible as the project officer for the Texas Water  
23 Commission.

24 Jim McGuire -- he works for EPA in Dallas with  
25 me. He has been responsible also as project officer. Next

1 is Carl Mickham. Carl is with the Agency for Toxic  
2 Substances and Disease Registry, and they are a sister  
3 agency to the Environmental Protection Agency. They remain  
4 independent, and they provide health information to us.

5 And last but certainly not least is Dr. Richard  
6 Beeuchamp; he is with the Texas Department of Health.

7 If there are no questions at this point, I will  
8 turn the program over to Stan Hill, who will begin.

9 MR. HITT: Thank you, Linda. Briefly, I just  
10 want to give you a little background on how we got here and  
11 where we are going from here. O O O

12 We are here tonight to discuss with you the  
13 recent remedial investigation of feasibility studies that  
14 were conducted; to accept public comment on the remedial  
15 alternative that we are recommending to the public for  
16 dealing with the site out of Crystal City; and, then, also,  
17 at that point in time to accept that public comment and then  
18 that in our final determination as to the remedies selected  
19 for Crystal City.

20 Now, Crystal City is one of 957 sites that are  
21 on the national priority list, and the national priority  
22 list is nothing more than a list of sites which are eligible  
23 for Superfund funding.

24 Superfund came about back in 1980 with the  
25 passage of a \$1.6 billion bill. That lasted five years; we

1 had another year of trying to figure out where we were  
2 going to go from there, and then Congress passed a new bill  
3 for \$8.5 billion in 1986 to renew the program for another  
4 five years.

5 Crystal City came in in October of 1984, I  
6 believe, and was added to the list at that point in time.  
7 And basically, the process that we follow with Crystal City  
8 is a process that we follow on all of our sites; which is  
9 that we do a remedial investigation -- where you go out and  
10 collect information to determine the extent, the kind and  
11 the distribution of waste at a particular site -- and then  
12 also the threats that are posed at that particular site.

13 You then go into a feasibility study, where you  
14 develop alternatives; you look at those remedial  
15 alternatives or alternatives for cleanup, and then you go  
16 to the public, as we are doing tonight, with a recommended  
17 alternative for public comment.

18 If that comment is perceived as being  
19 appropriate, then we go into the design phase for that  
20 particular project. And that is where you are actually  
21 putting the drawings on the paper as to how that is going  
22 to look out there on the ground.

23 And then finally is the construction, where you  
24 are actually out doing the remedial work that it takes to  
25 get the cleanup done. I might add, there is one other

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1 phase that comes after that; it is an operation and  
 2 maintenance period. Those usually last for, like, 30 years  
 3 or so, where we are just maintaining that particular remedy  
 4 to make sure that it is performing according to how we  
 5 designed it.

6 So, with just that short synopsis, I will turn  
 7 it over to Martyn, and let her talk to you a little bit  
 8 specifically about what was found at Crystal City.

9 MS. TURNER: Thank you, Stan.

10 MS. BROWNLOW: Martyn, excuse me.

11 MS. TURNER: Oh, sure.

12 MS. BROWNLOW: I, naturally, forgot something.  
 13 Ninfa Moncada has offered that if anyone needs a further  
 14 explanation of some of the presentation in Spanish, please  
 15 wave your hand and let us know, and, bless you, you will  
 16 help us. Thank you. I am sorry.

17 MS. TURNER: That is fine. Hello. Again, my  
 18 name is Martyn Turner, and I represent the Texas Water  
 19 Commission.

20 Stan gave you a brief overview of the Superfund  
 21 program, and I might elaborate a little bit on what he just  
 22 said. I would like to talk a little bit about the history  
 23 of the site, to bring everybody up to speed.

24 In April, 1983 we were notified by the officials  
 25 of Crystal City that there was a problem at the site.

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1 After that time we went to the site, saw the problems, and  
2 we did a little investigation at that time; samples were  
3 taken.

4 As a result of us going out there to the site,  
5 there are two immediate removal actions performed by the  
6 EPA. One was done in the fall of 1983, and the other was  
7 done in the spring of 1984.

8 During these removal actions, the EPA removed  
9 drums and contaminated soil to an on-site containment cell  
10 at the Crystal City airport. In addition to that, they  
11 built a fence around the site to limit access.

12 The site was added to the national priorities  
13 list, and that made us eligible for funds so we could do  
14 the remedial investigation. Let me explain a little bit  
15 about the remedial investigation that we performed.

16 The remedial investigation determined the nature  
17 and extent of the problem at the site, including  
18 characterizing the site in terms of the waste present, and  
19 the lateral extent of contamination. We looked at the  
20 contamination of surface water, in the ground water, in the  
21 sediments and soils; and we also looked at the rate and  
22 direction of waste migration.

23 We looked at the population at risk. And we  
24 also looked to see if there were any threatened resources.  
25 The remedial investigation supplied data for the feasibility

1 study. And the feasibility study is designed to look at  
2 remedies for the site. Let me tell you a little bit about  
3 the samples that were taken at the site that helped in the  
4 feasibility study.

5 We took air samples. These samples were designed  
6 to check the airflow across the site; to look at public  
7 housing, which is located around the site; and the air  
8 samples also showed us what was on the site, to protect the  
9 workers which may be involved in the activity on the site.

10 We took building wipe samples from the structures  
11 on the site, from Frank's hanger, and also from the hanger  
12 located on the south side of the airport. These building  
13 wipe samples were taken just to determine only if there was  
14 contamination on or in the buildings.

15 We took surficial soil samples, and these were  
16 very important because it showed us the contamination  
17 across the site -- how laterally extensive the contamination  
18 was or is.

19 In order to look at the vertical depth of  
20 contamination, we took borings. We took 15 five-foot  
21 borings; we drilled one ten-foot boring. We drilled six  
22 50-foot borings, and one 180-foot boring.

23 The 180-foot boring was very significant and  
24 gave us a lot of data. It showed that, for one thing,  
25 there is no ground water below the surface at the site to a

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1 depth of 180 feet. It also showed us that there are very  
 2 dense, thick clays beneath the surface. This is significant  
 3 because it does not allow -- clays do not allow downward  
 4 migration of water. Thus, it protected the Carrizo-Wilcox  
 5 aquifer, which is your source of drinking water.

6 In addition to the borings, we took ground water  
 7 samples from your wells which you get your water from. We  
 8 sampled the West Kinney Well, the Hossenback (phonetic)  
 9 Well, and the Airport Well, which is right adjacent to the  
 10 airport.

11 We took surface water and sediment samples in  
 12 the streams around Crystal City, and we also took three  
 13 runoff samples from the airport itself right after a  
 14 rainfall event.

15 From all these samples, we did a lot of analyses.  
 16 We analyzed for pesticides, herbicides, inorganics, volatile  
 17 organic compounds, acid-based neutrals and anions. With  
 18 these samples, for instance the air, we found no pesticide  
 19 contamination coming from the airport site itself. We did  
 20 find a trace of volatile organic compounds in both the  
 21 upwind and downwind samples.

22 Volatile organic compounds are things that can  
 23 be found in automobile emissions, so these really couldn't  
 24 be attributed to the site itself.

25 In the buildings, we found traces of pesticide

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1 contamination of Frank's building, and this is to be  
2 expected because Frank did apply pesticides, and he also  
3 stored pesticides in his hanger.

4 In the storm runoff samples that we took, we  
5 found arsenic -- minor amounts, trace amounts if you  
6 will -- going off the south end.

7 In the surface water sediment samples, we found  
8 trace amounts of both herbicides and pesticides, both  
9 upstream and downstream.

10 Getting back to the surficial soil samples and  
11 the borings: this is a map showing -- this is probably one  
12 of the most important pieces of information we got from the  
13 investigation, other than the fact that, of course, the  
14 ground water appears to have no contamination, and the air  
15 is clean around the site -- but this is probably what it  
16 all comes down to. And this is the contamination at the  
17 site itself.

18 The yellow -- I hope you all can see this  
19 indicates total contamination at 100 milligrams per kilogram  
20 at the site. If you will note, the majority of  
21 contamination is located near these hangars, which are  
22 indicated by boxes, and they go down one of the drainage  
23 patterns.

24 The other line, the blue line, is a ten milligram  
25 per kilogram contour. Material within the blue line and

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1 outside the yellow represents those contaminants at ten  
2 milligrams per kilogram.

3 In conclusion, the contamination found at the  
4 site is mainly contained on the site itself. One important  
5 item is that contamination extends to a depth of  
6 approximately one foot. We found very little to no  
7 contamination below the one-foot level.

8 If you have any questions, I would be glad to  
9 answer them. Yes, sir?

10 MR. RODRIGUEZ: My name is Rudy Rodriguez. I  
11 need to ask you, when were the air tests taken?

12 MR. HITT: I tell you what: if we could, let's  
13 go ahead and talk about the feasibility study, and then we  
14 will try and take questions and answers after the  
15 presentation on the feasibility study.

16 MR. RODRIGUEZ: The lady asked if I had a  
17 question.

18 MR. HITT: The thing we are concerned about is  
19 that we want to make sure that your question is put on the  
20 record, and we would like for you to come and speak into  
21 the microphone if you would do so, please, sir.

22 MR. TURNER: I might add, any specific questions  
23 about when things were taken, dates and, I guess, amounts of  
24 contamination -- those are not really available off the top  
25 of my head. If you will get with me -- I have the data

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1 with me. If you will get with me, I will look it up for  
2 you.

3 I would like to introduce Jim McGuire, and he  
4 will talk with you -- he is with the EPA, and he will talk  
5 to you about the feasibility study.

6 MR. MCGUIRE: As Martyn just discussed, the  
7 pesticide contamination at the airport is generally limited  
8 to the upper soil, and in order to develop alternatives to  
9 clean up the site, we conducted a feasibility study. And  
10 before we actually started developing the alternatives, we  
11 also conducted what is called a risk assessment.

12 And the risk assessment, basically, comes up  
13 with the cleanup level for the soil. The first step in the  
14 risk assessment was to narrow down the list of contaminants  
15 at the site. We -- the actual number of contaminants  
16 detected at the site is pretty great; I am not sure of the  
17 number. But we narrowed it down to what are known as  
18 indicator contaminants. And that -- indicator contaminants  
19 are based on the toxicity of the contaminants, the relative  
20 concentration of the contaminants at the site, and the  
21 distribution over the site.

22 From the information collected there in the  
23 investigation, it was determined that DDT, toxaphene and  
24 arsenic would serve as the indicator contaminants.

25 The second step of the assessment included using

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1 the indicator contaminants to develop the cleanup criteria.

2 Based on the current usage of the airport, the cleanup

3 level of 100 parts per million of the total indicator

4 contaminants was developed. This is considered an

5 acceptable level for exposure up to 220 days per year.

6 This means that access to the airport after cleanup would

7 not need to be restricted.

8 (Pause)

9 MR. MCGUIRE: The first slide is basically just

10 the site; it is an aerial photograph similar to what Martyn

11 has. The contamination -- I am not sure if you can see

12 what she has got -- but it is basically limited to around

13 the hangars here and down from those taxiways.

14 Next one. To clean up the site, in our

15 feasibility study we developed eight alternatives, and all

16 of the alternatives we developed cleaned up to 100 parts per

17 million level, except, of course, for the no action.

18 We include the no action under our investigation

19 only to serve as a base line for comparison with the other

20 remedies. The no action here included environmental

21 monitoring and the cost was just above half a million

22 dollars for that.

23 Second alternative we developed was an asphalt

24 cap. And what we would do there would leave the

25 contamination where it sits now, which is the yellow area

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1 Martyn has, and put an asphalt layer over the contamination.  
2 The cost for that remedy was estimated at \$2 million, and  
3 it would take approximately three months for construction.

4 The third remedy we developed was to move the  
5 contaminated material into a single area at the airport,  
6 and place a five-foot protective cap over that area. The  
7 cost of that remedy was \$1.6 million, and it was estimated  
8 to take about four months to complete, once construction  
9 began.

10 The fourth alternative was to place the  
11 contamination -- again, to pick it up, move it to a single  
12 area on the site, and place it in a lined landfill. The  
13 cost of that remedy was \$2.1 million, and again it was  
14 estimated to take about four months for construction.

15 The fifth alternative was again a lined landfill,  
16 but we were going to treat the soil to reduce the mobility.  
17 But we really had trouble coming up with something that  
18 would reduce its mobility significantly. The cost of that  
19 remedy we estimated at \$3.8 million, and it would take  
20 about five months to complete that option.

21 The sixth alternative was to dig all the waste  
22 up above the 100 parts per million level, take it off-site  
23 to a commercial landfill. The cost of that remedy was \$7  
24 million, and a lot of that was transportation costs. There  
25 is a hazard with picking it up and moving it to offsite

1 just because you have a transportation hazard. You are  
2 dealing with contaminated materials driving through  
3 neighborhoods.

4 The seventh alternative was to incinerate or  
5 burn the soil. And that would rid it of the pesticides,  
6 but we still have arsenic out there, and you can't burn off  
7 arsenic. So you would have arsenic ash to deal with at the  
8 end of that process. That one, it was estimated to cost  
9 \$11.4 million and it had a bad side, because it would take  
10 two years to complete that remedy. We would be out there  
11 with an incinerator for two years.

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12 The eighth alternative is what is called solvent  
13 extraction. And what we would basically be doing is  
14 flushing the contaminants from the soil. Again, it was  
15 estimated that that remedy would take two years, and the  
16 cost of it was \$16.1 million. And that one has a problem  
17 in that it is an innovative technology; it is not well  
18 proven. So it would have problems. Theoretically it  
19 should work, but in reality it hasn't been proven all that  
20 well.

21 Other problems with some of the remedies is --  
22 option number five, treating the waste to reduce its  
23 mobility would increase its volume by at least 25 percent.  
24 And therefore you would have a handling problem.

25 Based on the factors, we are recommending

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1 alternative number three, which is consolidating the waste.  
2 And what we are proposing to do on this remedy is -- we  
3 have approximately 12,000 cubic yards of waste, contaminated  
4 soil, we have to dig up -- that is approximately 900 truck  
5 loads of soil -- place it in a pit which would be 190 by 190  
6 by 17 feet, and place a protective layer on top of that  
7 material.

8 The covering that we are going to put over it --  
9 there is your waste, your contaminated soil -- we are  
10 talking two feet of compacted soil, 12 inches of sand, <sup>two</sup>  
11 feet of top soil, and then we cover it with glass. And  
12 underneath, we also have a synthetic liner, here, that  
13 protects rain from coming through and getting into the  
14 waste. Theoretically this is supposed to keep the forces  
15 which might move the waste, the contaminants in the waste,  
16 to keep it out of there.

17 Next one. Where we propose to put the landfill  
18 was south of the railroads, in this area here. And in the  
19 meeting with the council members, there are some questions  
20 as to whether or not we want to do that. But again, this  
21 is a proposed location, and we will work it out in design.

22 But the thought there was to move the landfill  
23 as far away from the runways as possible so that you can  
24 use your runways out there. And again, this hash mark here  
25 is the area we are talking about digging up.

(ON THE RISK) RESPONSE

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1           That is all I have. I will turn it over to Carl  
2 Hickham, who is with the Agency for Toxic Substance and  
3 Disease Registry.

4           MR. HICKHAM: Thank you. Again, my name is Carl  
5 Hickham. I am with the Agency for Toxic Substances and  
6 Disease Registry. Currently the agency has representatives  
7 in the ten national regional EPA offices around the country.  
8 Primarily our job is to provide health recommendations to  
9 the EPA, to state health departments, to state environmental  
10 agencies, to the general public and private medical  
11 community.

12           We have, at this time, received data on the  
13 Crystal City airport site. We are in the process of  
14 performing a comprehensive health assessment for this  
15 particular site.

16           We have in the past commented on this site a  
17 couple of times, most recently regarding the level that was  
18 set, 100 parts per million at cleanup. We do concur with  
19 this particular cleanup level. This report -- this  
20 assessment was provided to EPA and it is included, as I  
21 understand, in the repository of information that is here  
22 in Crystal City.

23           Let me turn it over to Stan.

24           MR. HITT: Thank you, Carl. Once again, the  
25 recommended alternative is alternative number 3, which is

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1 an on-site cap, consolidation of the waste on-site. And  
2 that is what we are recommending and proposing to the  
3 public for public comment.

4 Let me say a little bit about where we go after  
5 this night. As you can see, all this hearing is being  
6 taped; it is going on the record. Your questions will be  
7 received and we will attempt to answer them the best that  
8 we can tonight.

9 Some of them may require a written follow-up, 20  
10 which we will try to get to you. Or you -- any information 20  
11 that you may need. At that point in time, correct me if 10  
12 am wrong, Jim, but I believe the public comment period ends 00  
13 the 30 of this --

14 MS. BROWNLOW: Thirty-first.

15 MR. HITT: Thirty-first of this month. So if  
16 you have got -- if you want to send in written comments,  
17 please do so, by all means.

18 We will take the questions tonight and any  
19 written questions, and write up a responsiveness summary to  
20 those questions which will also go into the repositories as  
21 did the investigation feasibility studies and the -- as  
22 well as the record of decision, which is the document which  
23 chooses the alternative.

24 So with that, what we would like for you to do  
25 is that we would like for you to come up to the microphone,

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1 if you have got a question, please. We want to make  
2 sure -- it is not to intimidate you, it is just that we  
3 want to get it on the tape so that we make sure that we  
4 hear it and we can respond to it accordingly. Like I said,  
5 if we don't -- if we are not able to do it in person, then  
6 what we will try to do is respond to it in our  
7 responsiveness summary. Okay? We appreciate it.

8 And I am sorry -- I didn't really mean to cut  
9 you off a while ago, but we want to try to collect all of  
10 these at one point in time, if we could.

11 MS. BROWNLOW: Thank you. I see the mayor has  
12 joined us; welcome. Thank you for having us here. Stan is  
13 correct. The comment period does close the 31st of August.  
14 On the back page of your fact sheet there is an address  
15 where written comments can be mailed. You will see the  
16 name Carl Edlund; Carl is the branch chief for Superfund  
17 and therefore responsible for Superfund activities in the  
18 five-state region.

19 Without further ado we will proceed with the  
20 people who have indicated that they want to make a statement  
21 or ask a question.

22 Mayor Jose O. Mata. The microphone is there in  
23 the center, sir.

24 MR. HITT: Could we also, if you would please  
25 spell your last name for the court reporter when you come

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1 up:

2 MS. BROWNLOW: Excuse me; we don't need to do  
3 that. I will pass these cards to him later, and he can get  
4 the proper spelling.

5 MAYOR MATA: Good evening, ladies and gentlemen.  
6 I didn't mean to be the first one tonight. Anyway, I think  
7 that -- first of all, I would like to thank you ladies and  
8 gentlemen for being here tonight with us and thank you for  
9 the tremendous amount of work that has been done with this  
10 analysis.

11 And I would encourage each and every one of you  
12 here tonight to make your public comment, which we have the  
13 opportunity to do so here tonight, because it will affect  
14 our living standards here in Crystal City in so many  
15 different ways. So it is advisable that we each voice our  
16 opinion here tonight.

17 I, for one, am sure that these ladies and  
18 gentlemen will make their best recommendation to us.  
19 However, it is not with the intention that we do not wish  
20 to cooperate with them, but we are here to make our  
21 comments.

22 I have a particular comment on the location that  
23 is being recommended right now. And I would appreciate if  
24 you could turn on the aerial photo of the site so that I  
25 could more correctly identify what I am trying to say.

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1           There; that one there. Okay, to my right you  
2 will see the circle, and to the right of the circle is the  
3 location that is being proposed to be dug out and the waste  
4 material be located in that particular area.

5           Right into the left of the airport ground is the  
6 housing authority, and almost to the front is the school  
7 district elementary schools.

8           I think that when we met earlier today, someone  
9 voiced an opinion that what we wanted to do was, rather  
10 than the location of the site being right in front of the  
11 airport and almost also in front of the school district,  
12 that it be to the rear of the airport, where it could be  
13 excavated and dug in deep and put away, and it would not be  
14 visible to the rest of the community.

15           One of my concerns is that, of course, we as  
16 citizens of Crystal City, live here. We intend to make  
17 Crystal City grow. Whatever we have to do, we will try and  
18 keep doing it so that one day we will see Crystal City  
19 grow. And this, ladies and gentlemen, we feel, is an area  
20 of potential development in our area. It is a potential  
21 neighborhood development, it is a potential school  
22 development area, and it is a potential business development  
23 area.

24           We have already had minor problems as far as  
25 development, and we would like to diminish whatever problems

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1 we would have in that area, to conserve it as a potential  
2 development area.

3 Another thing is, if we can get it -- if we know  
4 there is a hazard there, and we can get it farther away  
5 from our residential area and our school district area,  
6 from our elementary-level area, I think we stand to gain.

7 However, I know that you will go back and study  
8 this situation and make another recommendation to our  
9 community. And I hope you do so, and I am hoping that you  
10 make the best recommendation possible.

11 Another issue that has been brought up is the  
12 issue of what dangers do we face with the air control -- or  
13 air quality that we will be receiving in that area. And I  
14 am sorry, and I apologize for not being able to distinguish  
15 who to ask the question to, but I don't know if this is the  
16 proper time to ask, and I would like to get an answer to  
17 that so that it would be on record.

18 MR. HITT: Absolutely. Let me first just kind  
19 of respond to your first question about placement of where  
20 the landfill would be.

21 It was correct that we had proposed to put the  
22 landfill back in this area in the feasibility report.  
23 However, that, we feel like, is a design-type question that  
24 has to be answered that we will look at more closely in the  
25 design. We do know that the FAA is going to require us to

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1 keep the landfill at least 150 feet away from any runway.

2 So it kind of puts a little bit of a damper on  
3 where we can put the landfill. But I would say that we  
4 would have to go back and check it out and make sure that  
5 it could fit within that area, what kind of costs would be  
6 involved for transporting waste from here back over here,  
7 because, again, you are talking about a significant amount  
8 of waste, and this will come out in the design.

9 But we can go back and definitely look and see  
10 if there is area over here to put the landfill on, and what  
11 the cost differentiation would be between, say, sticking it  
12 over here and sticking it back here.

13 Let me ask you a question. Are you talking  
14 basically within this area right in here?

15 MAYOR KATA: Correct. Now, another thing is  
16 that it was brought to our attention -- this place, once it  
17 is situated in front over here, it will be fenced; correct?

18 MR. HITT: Right; that is correct.

19 MAYOR KATA: It will be fenced and it will be  
20 identified as a waste area with toxic chemicals.

21 MR. HITT: That is correct.

22 MAYOR KATA: That I asked, or I questioned that  
23 it would be a sore thumb sticking out in that particular  
24 area because, you know, potential developers that come into  
25 an area and run into a place where it says Danger, you

1 know, don't get close; stay away. That is not a very good  
2 sign for our community. So if we can keep it, that danger,  
3 as far away from the city limits, we would be ahead.

4 MR. HITT: Okay. I agree with you. With  
5 respect to your air question, are you talking specifically  
6 of what kind of air quality we would have during  
7 construction, and what the threats of air releases during  
8 construction would be?

9 MAYOR KATA: Both. What the potential hazard we  
10 have right now, and what potential hazard we would have  
11 once construction starts.

12 MR. HITT: Okay. And I will allude a little bit  
13 back to Marilyn, and Marilyn may want to help me out here. If  
14 I get out of bounds with this, because I am not real up to  
15 speed on the investigation study.

16 But she alluded to the fact that they took air  
17 samples during the investigation study. And what those air  
18 samples essentially said was, they took downwind and upwind  
19 air samples -- is that we cannot detect any air releases  
20 from that site. They did detect some minor amounts of  
21 other contaminants, but it is not directly associated with  
22 that site.

23 So, as the site exists, in an undisturbed  
24 state -- because basically you are not talking about the  
25 same level of disturbance as it sits out there right now.

(ON THE RECORD) (KATA) (HITT)

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1 versus as what will go on during construction. We know  
2 that we are going to be disturbing that waste during  
3 construction. But as that site sits out there right now,  
4 there is essentially very little, if none, fugitive dust  
5 release coming from that site as it exists right now.

6 Now, that is not to say that if a person goes  
7 out there and mows the grass or kicks up the dirt or rides  
8 his motorcycle up and down these contaminated areas that  
9 is not getting some exposure to that. He probably is. But  
10 that is all on-site exposure. There is no exposure off-  
11 site that we have detected coming from away from that site.  
12 Okay?

13 Now, during construction, we will be definitely  
14 disturbing that waste, yet there are mechanisms to put in  
15 place where we also try to safeguard the public during  
16 construction; mechanisms such as -- construction things  
17 such as keeping the soil wet during excavation, or adding  
18 foams or doing other mechanisms. Also there is monitoring;  
19 there will be air monitoring done through the whole process  
20 during construction, so that if it does appear that there  
21 is a fugitive dust release during construction, then we will  
22 just have to stop, either wait until the conditions get  
23 better or find some other way to proceed before we would go  
24 on with that.

25 MAYOR MATA: Thank you. One other question: I

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1 forget who mentioned this, but during rainy season, the  
2 runoff water was also analyzed to have moderate some type  
3 of chemical. What is moderate type chemical? What danger  
4 does it pose to us?

5 MS. TURNER: Right. What I indicated was that  
6 there were trace amounts of arsenic leaving the site during  
7 a rainstorm event, going off the south end in this  
8 direction. Now, as far as health implications, I would  
9 have to refer that to the Department of Health or Mr.  
10 Hickham. Dr. Beauchamp, would you like to respond to that?

11 DR. BEAUCHAMP: Well, is that the one where you  
12 said the concentration was .09 milligrams per liter?

13 MS. BROWNLOW: That is correct.

14 MR. HITT: Dr. Beauchamp -- could anybody that  
15 responds, I would appreciate it if they could come back and  
16 speak into the microphone; it would sure be a help.

17 MR. HITT: Could you give me an example, Dr.  
18 Beauchamp, please?

19 DR. BEAUCHAMP: All right. The concentrations  
20 that they measured in the rainwater, as I understand, was  
21 about .09 milligrams per liter of water, which converts  
22 to -- the concentration is a little bit less than twice  
23 what would be accepted as a drinking water standard. The  
24 drinking water standard is .05 milligrams, and the levels  
25 that were measured there, I understand, were .095 milligrams

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1 per liter. So it is a little bit less than twice what  
2 would be accepted as drinking water for that one particular  
3 contaminant arsenic.

4 MAYOR MATA: So what you are saying, in your  
5 opinion, it doesn't pose a great danger to us?

6 DR. BEAUCHAMP: Well, at that level, unless  
7 somebody were out there drinking the rainwater running off  
8 the site, there would be no hazard just being in the water.

9 In order for arsenic or any other toxic substance  
10 to be of any harm to someone, it has to get into their body  
11 somehow. There are three ways it can get into the body. It  
12 can get in through inhalation of a vapor or dust or  
13 something like that; that is through the lungs; it can get  
14 in through ingestion, such as drinking water or eating food  
15 that is contaminated with the toxic substance; or it can  
16 get in through absorption through the skin, dermal  
17 absorption. In other words, if a person got out there and  
18 got dust all over them that was contaminated with pesticide,  
19 some of it would undoubtedly be inhaled, but some of it  
20 would be on the skin and some types of pesticides can be  
21 absorbed through the skin. And different pesticides are  
22 absorbed into the skin at different rates, so it would  
23 depend on the type involved as to how much the exposure  
24 would be.

25 MAYOR MATA: Thank you, Dr. Beauchamp. Another

1 question just for the record: I know you answered this  
2 question before for me. But I asked earlier whether these  
3 chemicals, whichever they might be, posed any dangers to  
4 our pregnant women in our community. I also noted that we  
5 a large amount of children that are Mongoloid. Could any  
6 of these diseases be attributable to what we have in that  
7 area?

8 DR. BEAUCHAMP: The first question, with regard  
9 to the possible adverse effects on pregnant women, if there  
10 were a significant exposure to that pregnant woman -- and  
11 this would probably have to come through ingestion of  
12 something, you know, soil or dirt or something from the  
13 site in order to get enough to be in the level where there  
14 would be a potential adverse effect on the fetus the woman  
15 was carrying. So it is extremely unlikely that there would  
16 be any type of adverse health effects in pregnant women,  
17 given the situation we have here, because we really have  
18 not identified anything which would constitute an exposure  
19 pathway. In other words, those three pathways that I  
20 mentioned, not one of those has been identified as a likely  
21 source of exposure to pregnant women in the area.

22 The second question, with regard to the Down's  
23 Syndrome children in the area: there have been numerous  
24 studies done on Down's Syndrome, looking at hundreds and  
25 hundreds of affected children. And they have looked at all

1 types of different things: maternal occupational history,  
2 paternal -- mother's work history, father's work history,  
3 any exposures in the household, you know, types of hobbies  
4 or anything that involve use of chemicals or toxic  
5 substances or use of pesticides in the home or type of diet  
6 or -- just all types of different factors that may be  
7 involved. And after all these studies, they have never  
8 really been able to identify any single environmental  
9 factor which has been linked to Down's Syndrome.  
10 Generally the things that keep coming up are the  
11 older the mother is the higher the risk for bearing a child  
12 with Down's Syndrome. Also the older the father is, to a  
13 lesser extent, is also an important in whether or not there  
14 is a high likelihood of a Down's child.

15 MAYOR MATA: Has Down's Syndrome ever been linked  
16 to these chemicals, any type of these chemicals we have  
17 here?

18 DR. BEAUCHAMP: No. Down's Syndrome has not been  
19 linked to any environmental chemicals or poisons that we  
20 have discovered to date.

21 MAYOR MATA: I will let somebody else have the  
22 microphone. Thank you very much.

23 MS. BROWNLOW: Thank you, Mr. Mayor. I apologize  
24 to everybody for this game of musical chairs; it has to do  
25 with too many microphones, and I am very, very sorry.

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1 Our second speaker, Esequiel Guzman, your city  
2 manager.

3 MR. GUZMAN: I have two questions, or maybe one  
4 comment on the health related issue, and the question on  
5 the selected alternative.

6 (Pause)

7 MS. BROWNLOW: I will tell you --

8 MR. GUZMAN: Is it working now?

9 MS. BROWNLOW: This one is off.

10 MR. HITT: I will tell you what. We will just  
11 try to talk loud enough so you can hear us. If you can't,  
12 please raise your hand and say, I can't hear you and we will  
13 try to talk louder. Okay?

14 MR. GUZMAN: Related to the health issues, I  
15 would just like to point out that, in the earlier meeting,  
16 it was brought out that none of these opinions on the  
17 affected health of local people is based on any study that  
18 was made on the history of anybody here; that it is just an  
19 opinion based on what we have there.

20 And on the question of the selection that was  
21 made on the remedy, I was just wondering if you could give  
22 us an explanation of how that was reached. When that  
23 selection was made, why do 100 parts per million? Is it a  
24 cost-related factor, or -- you know, what the reasoning  
25 behind that is?

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1 MR. HITT: Let me get this first correct, as far  
2 as -- your first question was -- well, let me address the  
3 second question, as far how clean was clean at that  
4 particular site.

5 That is a very difficult question that we often  
6 deal with on every site. As a matter of fact, it is  
7 probably the most difficult question that we have to deal  
8 with at every site.

9 Our primary consideration factor is one of  
10 public health. I think that is paramount in everybody's  
11 mind, as far as when we go into these things in determining  
12 what kind of cleanup levels we want to establish.

13 After we in ATSDR and the other health agencies  
14 that are involved are comfortable with that, there are other  
15 factors that we have also got to consider. And that is in  
16 the fact that, is it technically practical to try to clean  
17 up to that level?

18 And oftentimes -- let me give an example about  
19 that. With the Crystal City airport, if you selected  
20 another cleanup level, essentially what you would be doing  
21 is increasing your volume substantially over a level that  
22 is -- well, we can get into the health related aspects of  
23 it a little bit later. But you would be increasing your  
24 volume substantially. The more we increase our volume, the  
25 harder we are going to have a time of fitting that in with

1 the area that we for that site, to dispose of it in.

2 So what I am saying is, that there are other  
3 things out there that we have to consider during the  
4 cleanup levels. But the 100 parts per million was basically  
5 derived from what we call a risk assessment model. And if  
6 you have ever dealt much with any kind of models, you know  
7 that they are very precarious; and this is no different.

8 There is a lot of assumptions that are made.  
9 And we try to confine those assumptions, and know what they  
10 are, but it is a very difficult model to work with. And  
11 you have got make assumptions. And the assumptions that  
12 were made were that this was operating as an airport in the  
13 past; we want to keep it operating as an airport in the  
14 future.

15 And we tried to select those people that we  
16 thought might be exposed to that kind of waste out  
17 there -- and again, the exposure is to on-site people  
18 working at the site -- and based on that, and based on the  
19 data that we have which are primarily -- and Dr. Beauchamp  
20 related this to you earlier today -- is primarily animal  
21 toxicity studies. You extrapolate that to human exposure  
22 levels, and you get what you think is an acceptable risk  
23 level. And we say, or our thinking is that 100 parts per  
24 million is an acceptable risk level.

25 MR. GUZMAN: Okay. One more question I just

1 thought about. You are recommending that we keep the  
2 airport closed until such time as you do the cleanup?

3 MR. HITT: That is correct. Until we get the  
4 airport cleaned up, that is our recommendation.

5 MR. GUZMAN: Can it be used at all?

6 MR. MCGUIRE: I think -- we met with the FAA on  
7 that, and it was finally decided -- and I will have them get  
8 in touch with you to tell you officially -- that you should  
9 keep the gate locked at the airport and that they would put  
10 a NOTAM out that says to contact you all before somebody  
11 lands there so that you can have somebody come unlock the  
12 gate for them.

13 So the FAA still wants it kind of kept closed,  
14 but kind of open, because evidently there is a regulation  
15 that says it has to stay open, I guess, for emergencies.

16 MR. GUZMAN: Limited use in other words.

17 MR. HITT: Yes. For emergency situations.

18 MR. MCGUIRE: So we worked out with him, and he  
19 said that that would be acceptable to him. We felt it  
20 should be closed; FAA requires that it be open. So we kind  
21 of met in the middle and said let's leave the gate locked  
22 and somebody can contact you prior to landing to have the  
23 gate opened for them.

24 MR. GUZMAN: Okay. Thank you.

25 MR. MCGUIRE: I will have the FAA get in touch

1 with you on that.

2 MR. GUZMAN: Thank you.

3 MS. BROWNLOW: Our next speaker, Alexandro  
4 Nieri.

5 While Mr. Nieri is walking up, I want to  
6 recognize also that Alan Schmidt of the Texas Aeronautics  
7 Commission is in the audience, too. Thank you for being  
8 here.

9 MR. NIERI: I was also part of the previous  
10 meeting, and it was quite extensive, so I want to be  
11 frugal. I have some questions that maybe we can answer  
12 with -- pardon?

13 MR. HITT: Can you not hear?

14 MR. NIERI: Okay. I will ask questions that  
15 could possibly be answered with a yes or no. I have one  
16 for the gentleman from the CDC.

17 Are any of the contaminant cancer producing, the  
18 ones that we have found at the airport?

19 MR. HICKHAM: They are classified, I believe  
20 they are -- based on the animal studies, again, there have  
21 been some links to cancer with one of -- yes, sir; they  
22 are.

23 MR. NIERI: Anybody exposed to those contaminants  
24 at the airport for any length of time, could we assume that  
25 they have a high risk of contracting cancer?

1 MR. HICKHAM: The way this particular cancer  
2 issue is derived -- and again, there are many chemicals  
3 that have a higher potency index for cancer than the two or  
4 three that we are talking about here. But the way this is  
5 evaluated is the exposure time that a person would be on  
6 the site, based on a 70-year lifetime average for the  
7 development of cancer.

8 It would not be, you know, someone that gets  
9 random exposure for one day a year, two days a year,  
10 anything as such. They are usually based on daily exposure  
11 for a 70-year lifetime average.

12 MR. NIEMI: Thank you. I have a question the  
13 gentleman from the TAC, the Texas Aeronautic Commission. I  
14 understand we have grant right now allocated to the city to  
15 do some lighting work at the airport. Will this problem of  
16 the site present any problems in carrying out the grant or  
17 the grant conditions?

18 MR. SCHMIDT: The city does have a grant from  
19 the Aeronautics Commission to replace the lights, or to  
20 install lighting. We put that on hold when we found out  
21 about the Superfund evaluation. The grant is established  
22 for a four-year period, which means it will expire August  
23 of 1989.

24 It is possible for those to be extended; however  
25 that is not up to me; that is up to the Commission itself.

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1 that could meet at some time. Right now, we are not going  
2 to -- we are not interested in doing the cleanup right now.  
3 The information that has been developed has given us some  
4 information we can use and rethink whether we can go ahead  
5 with the construction. And right now I am just not sure.

6 We have identified the contaminated areas near  
7 the intersection of the taxiway and the runway, where we do  
8 have to do some trenching -- or we might have to do <sup>M</sup> some  
9 trenching. And I don't really think we want to be <sup>V</sup> doing  
10 trenching in that area now. So, maybe I have gone <sup>O</sup> beyond  
11 what you asked. Yes, you do have a grant. It is set to  
12 expire in August of 1989. The possibility of it being  
13 extended -- we still have to look at the possibility of  
14 whether we can do the construction between now and 1989.

15 MR. NIERI: Thank you. This question is for the  
16 EPA representation. Are cleanup funds restricted for any  
17 reason, or can we use funds for a total and thorough  
18 cleanup, whatever alternative that falls under?

19 MR. HITT: I am not sure I am following your  
20 question as far as that goes. But I guess, if you are  
21 talking about level of funding for the whole program, you  
22 know, it is tough to say. But right now, basically, we are  
23 already seeing some resource limitations as far as Superfund  
24 goes, because we have just got so many sites on the list  
25 right now.

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1                   But with respect to Crystal City, we have  
2 already got the funding, more or less -- I mean, the  
3 funding set aside that we think may be necessary for that  
4 cleanup. So I -- to answer your question, I don't see any  
5 problem with regards to funding.

6                   MR. NIERI: How much is that, sir? How much  
7 money has been allocated?

8                   MR. HITT: Well, it hasn't been allocated yet,  
9 to tell you the truth. We have long-range planning that we  
10 try to do so that we try and set aside an amount of money  
11 that we know that the agency can go to Congress and say  
12 every year we have got to go to Congress, and I am sure  
13 is like you go to the city council and say, Please release  
14 this amount of money to me. And based on that, usually  
15 what we try to do is give a very conservative estimate.

16                   Way back when, when we didn't know exactly what  
17 was going to be done -- 65 or 610 million of what that  
18 planning money needs to be -- and essentially it is nothing  
19 more than planning, but the agency will go to Congress at  
20 the end of each year and say I need this amount of money in  
21 my budget to cover this amount of sites.

22                   MR. NIERI: Thank you. I had a question for the  
23 Texas Water Commission. We have two landfill sites. One  
24 is in the process of being closed officially, and the  
25 present landfill site, about 4-1/2 miles from the city.

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1    Could it be possible to -- I know we have some areas in the  
2    old landfill site that were not used to bury trash, so that  
3    could be available. I don't know to what extent, but we  
4    can look into that.

5                The new landfill site has a substantial amount  
6    of land right now. And could that be used for this kind of  
7    operation?

8                MS. TURNER: That landfill that you are speaking  
9    of was intended for municipal waste? What we have here is  
10   a hazardous waste. And to take that off-site, the landfill  
11   would have to be designed for hazardous waste, which it is  
12   not at this time.

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13               MR. NIERI: So what we are saying is that the  
14   hazardous material will remain here anyway, wherever we put  
15   it. Right?

16               MS. TURNER: Yes. But you can't move it to a  
17   non-hazardous facility. Congress has passed these laws.

18               MR. NIERI: Okay. Will people or children  
19   living near the toxic site be affected -- that question was  
20   for anybody -- in the future, even though we take  
21   precautions to bury the toxic waste contaminants.

22               DR. BEAUCHAMP: Well, assuming that the remedial  
23   investigation and the cleanup plans are all implemented as  
24   planned, at that point the site should be totally safe, I  
25   mean, because all the contaminated material will be safely

1 either disposed of, or buried, or whatever the final  
2 alternative is. And there should be no concern at that  
3 time.

4 Even as it is now, as I alluded to a little  
5 while ago, there really has been no identified exposure  
6 mechanism which would put children or people living in the  
7 neighborhoods nearby the airport at a real risk of  
8 developing anything, because it has to have some way of  
9 getting from the airport, from down in the ground at the  
10 airport there, over to -- into a person's system, either  
11 through inhalation or ingestion or absorption through the  
12 skin.

13 And as long as none of those mechanisms are in  
14 operation, then there is no risk. Just the fact that a  
15 hazardous chemical is there does not mean it is a real  
16 threat to you unless it can get into your system.

17 MR. NIERI: Thank you. I don't have any more  
18 questions.

19 MS. BROWNLOW: Thank you very much.

20 Next speaker, Marilu Massignani.

21 MR. GUZMAN: Could I have an appendix to my last  
22 question?

23 MS. BROWNLOW: Sure.

24 MR. GUZMAN: Is the situation very serious right  
25 now, that we should take any kind of precautions before any

1 kind of removal is done, or any kind of actions taken of  
2 the removal of the toxic waste? Are we under some kind of  
3 a "scare?"

4 DR. BEAUCHAMP: Well, I think that, you know,  
5 completely adequate precautions have already been taken  
6 with restricting access to the airport now, which would  
7 really eliminate most of the possible exposure routes.  
8 This would be someone going on to the site and stirring up  
9 a lot of dust, doing something where they would be exposed  
10 skin or something, or ingesting dust or something from the  
11 site. So those precautions are completely adequate right  
12 now to protect the residents of the city.

13 MR. GUZMAN: Thank you, Doctor.

14 MR. HICKHAM: Sir, if I might just follow up  
15 with one of your comments -- I have, as I mentioned to you  
16 today, a print on toxaphene, which I will provide to Mr.  
17 Guzman, which will also provide you with some references  
18 for the various lengths between a carcinogenic item with  
19 toxaphene in animal studies. And I will have that for Mr.  
20 Guzman at the completion of this meeting.

21 MS. BROWNLOW: Thank you, Carl.

22 Marilu Massignani. And thanks again for all  
23 your help with the facility.

24 MS. MASSIGNANI: You are welcome. A couple of  
25 these questions I have asked earlier in the day; some

1 others I haven't.

2 If there should be some additional information  
3 compiled at the local level, could the community call for  
4 another meeting of this type? Like tonight, you called the  
5 meeting. Could we call a meeting?

6 MS. BROWNLOW: Absolutely. We would be  
7 glad --

8 MS. MASSIGNANI: And the three agencies would  
9 come down?

10 MS. BROWNLOW: Absolutely.

11 MS. MASSIGNANI: Thank you. The second question  
12 is, did the study determine the longevity of the  
13 contaminants?

14 MR. HITT: We know quite a bit about those  
15 constituents. We know that the organics there, the  
16 pesticides, have half-lives. In other words, they  
17 deteriorate with time. Even DDT, which is a very persistent  
18 chemical in the environment, deteriorates over a period of  
19 time. It breaks down into other products.

20 Toxaphene has a relatively short persistence  
21 time; DDT has longer. I think you are probably talking  
22 about -- and I may be out of bounds here, because I am not  
23 real up to speed on this stuff -- but toxaphene has, I  
24 think, like a ten or 15 year half-life, or something like  
25 that. DDT is probably about 40 or 50 years.

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1 Now, the problem where you get into it is  
2 arsenic. Arsenic is an inorganic; it is an element, and  
3 basically it will not biodegrade. It will stay in the  
4 environment, as will all arsenic, because it is just a very  
5 stable type element.

6 So, yes; some of them do biodegrade. Some of  
7 them will not persist; others will be around for a long  
8 time.

9 MS. MASSIGNANI: I guess my question was  
10 retroactive in time. Given that the organic substances  
11 deteriorate with time, does the study determine how long  
12 the organic substances have been at the airport site? 001844

13 MR. HITT: Well, I guess you would have to go  
14 back to the point in time when they were originally disposed  
15 of, and I am not really sure when that was, to tell you the  
16 truth. Early '60s? I don't know. You all would probably  
17 know that much better than I would.

18 I would think, probably, what you have already  
19 seen, although we cannot document it, is that you probably  
20 have already seen a lot of biodegradation or breakdown of  
21 those chemicals out at the site. I heard one person  
22 reference the other day in the meeting that when they first  
23 went out there, it was a very strong odor, that emanated  
24 from that site and also that there was yellow stains and  
25 everything. It was real evident that you could see that

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1 material.

2 Good old Mother Nature, in her infinite wisdom,  
3 does do something for these chemicals, believe it or not.  
4 So, yes, I think -- we have not gone back and actually  
5 documented how much we have had, because we have only had  
6 this kind of time interval to check it. And that has been  
7 only a relatively short period of time.

8 We have not checked it, but from studies  
9 known -- scientific studies -- they do biodegrade. Some of  
10 them do; some of them don't.

11 MS. MASSIGNANI: You have just mentioned,  
12 though, that toxaphene degrades much faster than the other  
13 one, and that was found in considerable amounts. So maybe  
14 it hasn't been there for ten or 15 years?

15 MR. HITT: It probably hasn't.

16 MS. MASSIGNANI: Maybe it was there more  
17 recently.

18 MR. HITT: Right. Well, when I say half-life,  
19 it is like half of the concentration from the initial  
20 concentration. We don't know what initial concentra-  
21 tions -- I imagine it was almost pure toxaphene that was  
22 dumped out there. And so we really don't know what the  
23 initial concentrations of that chemical were that were  
24 disposed at that site. So it is tough for us to say yes,  
25 it has degraded or no, it hasn't. But we know, from

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1 scientific studies that -- on toxaphene itself -- that it  
2 does biodegrade.

3 MS. MASSIGNANI: So are there -- herbicides and  
4 pesticides were made of pure toxaphene?

5 MR. HITT: I don't know. I guess that is a  
6 good -- I think there is. I mean, nothing -- like, in  
7 pesticides, there are a lot of different ingredients, and  
8 nothing is a pure chemical itself. I mean, you add water  
9 to it or whatever. But you are talking percentages, five  
10 six, seven, eight, maybe seven percent toxaphene in a  
11 solution. Whereas, where you are talking about it now, you  
12 are only talking in relatively minor amounts over what was  
13 probably originally disposed of there.

14 MR. MCGUIRE: Also, the crop dusters, from our  
15 records, ceased operations out there in '83. So it hasn't  
16 been that long since they quit. So even if it is  
17 biodegraded, whatever the rate is, it hasn't been long  
18 enough for it to be gone naturally yet.

19 MS. MASSIGNANI: So can we deduct that very  
20 conveniently the operation went bankrupt as soon as we  
21 found out that there was the chemical waste dump?

22 MR. MCGUIRE: We -- like I said, from our  
23 records, we are not sure when it got started out there. We  
24 never were able to get a handle on that from our literature  
25 search we did, but we do know that it ceased operation in

1 '83. Now, whether or not -- how the two coincide --

2 MS. MASSIGNANI: April to fall. Number 3  
3 solution, which is the one that you are proposing to the  
4 public tonight, talks to the effect of that it would impose  
5 hazards to landing aircraft. I think that probably we  
6 would have felt more comfortable if you could have read,  
7 poses no hazard to human beings.

8 You know, I know we all want Crystal City to be  
9 valuable, but like you say, public health is a first  
10 priority. So that was quite dissatisfactory in the wording. ) 00164

11 Another question: you have repeatedly stated  
12 this afternoon that the way the contaminants appear at the  
13 airport site do not constitute a public health hazard. It  
14 seems that you are over and over again implying that as  
15 long as they stay there, as long as someone doesn't come  
16 into direct contact it does not pose a hazard.

17 I have two questions. One, if that is true, why  
18 did we get so fast on the Superfund list? Because I know  
19 that at the time that we got on the Superfund list, Senator  
20 Florio [phonetic] from New Jersey stated that there were at  
21 least 13,000 other sites who were waiting to get on the  
22 Superfund list for at least five years. So what was the  
23 rush?

24 MR. HITT: Again, we use a model -- it is called  
25 the HRS Ranking Model -- to get sites put on the national

1 priorities list. And basically, that model operates off  
2 potential hazards; hazards that you don't actually have, in  
3 a lot of cases, documentation that they are there. You  
4 have to make some assumptions.

5 If you don't have data that says I have a  
6 groundwater threat there, I have a surface water threat  
7 there, I have an air threat there, you go through another  
8 mechanism where you try to make assumptions as to whether  
9 you think you do. And the case with Crystal City and a lot  
10 of other sites, is that even though it may get on the  
11 national priorities list, the first thing that we have to  
12 do is go back and do the more extensive investigation as we  
13 did here; actually documenting, is that correct.

0010648

14 And probably, if we re-ranked the site out right  
15 now, based on what we know, I am not sure the site would  
16 rank out, to be truthful; if it would make the national  
17 priorities list. But we don't have to worry about that.  
18 It is on the priorities list, and we are going to try to  
19 deal with it. But it is a model, just as the risk  
20 assessment was a model.

21 This is Bob Chapin with the Texas Water  
22 Commission.

23 MR. CHAPIN: I have been with the Water  
24 Commission long enough to see this site develop all the way  
25 through the system. And when we first were called out here

1 by the city and took some samples and found very high  
2 levels of toxaphene -- in the 1 and 2 percent range, which  
3 were very high levels -- we were very concerned about it,  
4 and it became a very high priority for the Texas Water  
5 Commission to see that it got on the national priorities  
6 list as fast as possible.

7 Now, I don't know exactly where Representative  
8 Florio gets his 13,000 sites from, and I am not sure that  
9 that is a real number to begin with. But we developed as  
10 much data as we needed to get the site into the national  
11 priorities list system as quickly as we could, because  
12 considered it a very serious problem. And the EPA was  
13 responsive to our concerns about that, which is one reason  
14 why it moved through the system as fast as it did.

15 As to the difference between that concern and  
16 our present level of concern, one of the reasons for that  
17 is there have been two removal actions. The stuff that was  
18 out there that was such high percentage has already been  
19 picked up and temporarily buried to the side of the runway,  
20 so that what was left out there now, that we sampled, is of  
21 much lower concentration than what was originally there, and  
22 so the stuff that was out there that was of the highest  
23 concentration has been removed from direct contact where  
24 somebody could actually touch it. And that was what was  
25 driving the system at the time.

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1 MR. HITT: Thank you, Bob.

2 MS. BROWNLOW: Thank you, Bob.

3 MS. MASSIGNANI: Once again, going back to the  
4 fact that -- Carl Hickham is not here -- he is coming back  
5 now. This afternoon he said I can look at this straight in  
6 the eyes and say there is no hazard to public health.

7 If that is true -- and I don't mean to be  
8 facetious -- why do we have to cap, why do we have to go  
9 through all these procedures to eliminate it, or to  
10 safeguard the public against -- why couldn't we just build  
11 like a cement wall, and then the kids could paint some  
12 murals or something like that?

13 MS. BROWNLOW: Carl, or Stan --

14 MR. HITT: Yes. Let me qualify that, because I  
15 think the situation is that the site is a health threat as  
16 it exists right now, for people who come on that site and  
17 are exposed to that waste. In other words, those  
18 concentrations as they exist at the site right now are of  
19 health concern. However, after the remediation is complete,  
20 and after we have consolidated -- if we consolidate and put  
21 it under a cap, then the material left at that site, we are  
22 saying, will not pose a health threat. And that site can be  
23 used for the intention it was set up for it to be used, and  
24 that is as an airport.

25 MR. HICKHAM: I caught the tail end of that; I

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1 apologize to you. When I made the statement to you today  
 2 that I would look you in the eye and make a statement,  
 3 what I said to you was this: that after reviewing the data  
 4 that we had, in my opinion -- and my recommendation was that  
 5 we not do testing in the community. That was my statement  
 6 to you. And I had promised the city planner and the mayor  
 7 that I would certainly go on record with that particular  
 8 statement tonight.

9 Again, in my opinion, based on what I have seen  
 10 thus far, I cannot in all truth recommend that we do  
 11 community blood testing or such.

12 Now, there are a couple of things that you  
 13 mentioned in your first statement I thought was very  
 14 important, the first being that if new information is  
 15 provided, certainly -- and our agency, as I indicated in my  
 16 introduction, we accept citizens' petitions. If there is  
 17 new data, if there are data available that has not been  
 18 reviewed, we would be most happy to do that, either through  
 19 a citizens' petition, through the local medical community,  
 20 through a private physician, or through a citizen himself.

21 So there are a number of routes that can be  
 22 taken if new or existing data is available that we have not  
 23 factored into our health assessment. But again, I say to  
 24 you in all fairness that my statement was that based on  
 25 what I have seen thus far, knowing that if it is on-site

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1 and the sampling that has been done off-site -- if there is  
 2 no route of exposure, in my opinion I don't see a need to  
 3 go in and test the community. And I stand by that until  
 4 such time that we have additional data that might sway us  
 5 to feel like maybe we should or should not.

6 But again, I would be very happy to have the  
 7 agency -- our scientists look at any data you might have,  
 8 and certainly to have that evaluated and factored into their  
 9 health assessment.

10 MS. MASSIGNANI: I also believe, sir, that this  
 11 afternoon you admitted yourself that this is such a new  
 12 field, the field of contaminants, that really, you know, it  
 13 is very difficult to predict or to project things in the  
 14 future.

15 MR. HICKHAM: I think you are absolutely right,  
 16 and I did make that particular statement. It is just like  
 17 toxaphene. Toxaphene -- I think it is like 177 components  
 18 that make up toxaphene. And when you mix toxaphene with  
 19 other chemicals -- and some chemicals by themselves -- we  
 20 really don't have the science base that we know exactly  
 21 what is going to fall in line. And I think that is one  
 22 thing Mr. Hitt commented on earlier today, when we are  
 23 trying to set the levels for cleanup at sites.

24 What we are giving you, folks, and giving the  
 25 country, is our best scientific knowledge at the time.

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1 That may change ten years from now. And let's hope that it  
2 does, because our knowledge base can certainly be increased  
3 in these areas.

4 But you are absolutely right. I did make the  
5 statement and I stand by it. We certainly don't have all  
6 the science that is necessary sometimes. But we are giving  
7 you the best scientific call that we have at that particular  
8 time.

9 MS. MASSIGNANI: Thank you. This is last  
10 comment that I want to make; and it is not a question, 1001653  
11 is a statement. That, exactly because of the reason that  
12 we do not know what it is -- going to happen, hopefully  
13 absolutely nothing -- but we do not know what is going to  
14 be down the road ten, 15 or 20 years from now. And as an  
15 assistant for the public school district assistant  
16 superintendent, I know that we have close to 1500 children  
17 two blocks away from the site. The children who come to  
18 our school district remain there, in that area, for seven  
19 years. We have faculty who have been there for ten to 15  
20 years. And in light of these statistics, I would like to  
21 go on the record asking for the Department of Public Health  
22 to come in jointly with the city, school and county  
23 governments to do periodic sample blood testing, with --  
24 and in order of priority, city workers who are being in  
25 direct contact at the site of the contamination, residents

1 for the public housing, and children in our school district  
2 and especially their faculty. Thank you.

3 MR. HITT: Thank you.

4 MS. BROWNLOW: Thank you very much.

5 Ninfa Moncada, Crystal City Housing Authority.

6 And thank you especially, for your help to me, and help  
7 getting the word out on this meeting; appreciate it.

8 MS. MONCADA: Sure thing. I concur 100 percent  
9 with Ms. Massignani's concern, and I don't think we are  
10 overreacting or being -- going to an extreme here for our  
11 concern. ) 001654

12 As you know, I am the director of the Housing  
13 Authority. We have 116 families living right next to the  
14 site. I have some questions, because it is not real clear  
15 in my mind as to how it was determined that these families  
16 that live so close to the site and have been there for many  
17 years during, especially, the time that the dumping was  
18 going on and so on -- what kind of procedures did you use  
19 in ensuring that those families and their environment is  
20 not currently contaminated?

21 MR. HITT: Okay, well, it really kind of gets  
22 back to what we did, I guess, with respect to the  
23 investigation. And I will tell you what we really try to  
24 do when we go out and look at these investigations and try  
25 to define what threats are posed at a particular site.

1           You always concentrate on the site to start out  
2 with, to determine exactly where the contamination has  
3 gone. And that is exactly what we did with Crystal City.  
4 We took a bunch of surface borings, we took -- I mean  
5 surface samples. We took a bunch of soil samples, we took  
6 air samples, we took runoff samples -- you collect all  
7 these different samples that are primarily concentrated on  
8 the site.

9           If, at that point in time, you find that you  
10 have significant off-site contamination, which was not the  
11 case with Crystal City, then you may be required to go back  
12 out and say I have got a ground water problem here. I have  
13 got to put in many more monitoring wells.

14           And if there is a route -- again, exposure is  
15 everything. If there is a route of exposure, whereby  
16 people are actually coming into contact with it or drinking  
17 contaminated water or inhaling air that is contaminated,  
18 then you; we would be very much concerned about anybody  
19 that would live in that surrounding area, that there is a  
20 mechanism for them for route of exposure.

21           But again, with Crystal City, we saw no route of  
22 exposure off-site. On-site, we have got a problem. Off-  
23 site, we do not have a problem.

24           MS. MONCADA: So you did not do any surveys of  
25 the soil or the buildings there at the Housing Authority?

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1 Is that correct?

2 MR. HITT: No. Is that correct? Did we?

3 MS. BROWNLOW: Martyn, you want to take that  
4 one?

5 MS. TURNER: My name is Martyn Turner. We did a  
6 five-foot boring near the housing development. We also did  
7 another boring in the baseball field. We found minor  
8 amounts of contaminants that may or may not be associated  
9 with the site.

10 We found some DDE, I believe, in the baseball  
11 field, which could be attributed to regular pest maintenance  
12 back in the old days when they used it as a pesticide.

13 The levels that were found were way below the 10  
14 milligram per kilogram level seen on this map; and much,  
15 much less -- several orders of magnitude less than the 100  
16 milligram per kilogram cleanup level recommended for the  
17 site.

18 MS. MONCADA: Why weren't any personal interviews  
19 done of the families there, or other groups of families in  
20 that vicinity?

21 MS. TURNER: I personally called -- after the  
22 last public meeting, concern was made about dead dogs on  
23 the site. And I personally called a veterinarian and asked  
24 him about dead animals found in and around the area. They  
25 could not report any deaths due to the site.

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(512) 491-0552

1           They also called a doctor. He did not report  
2 any increased incidence of illness, that he could see, that  
3 could be attributed to the site.

4           There were no other surveys done along those  
5 lines.

6           MS. MONCADA: You know that most of the doctors  
7 that are in the community right now have not been here very  
8 long. Or were you just asking about, what, the last 12  
9 months, or what was your inquiry?

10          MS. TURNER: I did this almost a year and a half  
11 ago, before we went out and did the investigation; right  
12 after the public meeting that we did before we did the  
13 remedial investigation.

14          I am not a health specialist. I am a geologist.  
15 And I would refer that type of question to the health  
16 specialists.

17          DR. BEAUCHAMP: I also addressed the issue of  
18 whether or not, you know, a health study is warranted in a  
19 situation like this.

20          Generally, unless there has been some identified  
21 exposure route or pathway, such as one of the ones that I  
22 mentioned earlier, whether it is inhalation of dust or  
23 ingestion of, you know, contaminated materials, whether it  
24 is dust or food or something like that that somehow came in  
25 contact with the waste from the site; or, you know, direct

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1 skin contact with one of these contaminants on the site.

2 If you can't demonstrate even a hypothetical  
3 sort of exposure pathway, then it is going to be -- you can  
4 almost guarantee that it is going to be non-productive to  
5 do some sort of a health survey, because if the substances  
6 can't get into the body to cause any harm in the body, then  
7 you just cannot demonstrate a problem.

8 Now, let me sort of relate to you a situation  
9 somewhat similar to this that took place down in Mission,  
10 which is fairly close down here, I guess; down in the  
11 Valley around McAllen. And in that situation, there was  
12 pesticide formulation plant which had worked with DDT and  
13 lindane and a number of other pesticides; and there, too,  
14 they had been careless with pesticides and they had had  
15 some spillage around the property.

16 And in this situation, there were noticeable  
17 odors coming from the site, and there were -- parents in  
18 the area were concerned because of the history of the site  
19 being a pesticide formulation plant, that there may be some  
20 effect to neighborhood children.

21 In that case, the site was directly across the  
22 street, and I mean a very small street, so we are talking  
23 about the site property being within 50 feet to 75 feet of  
24 the surrounding property. Also across one of the streets  
25 from that site was a school bus parking lot, where buses

1 were kept permanently, plus they did maintenance on buses in  
2 that area. And there were school shop classes being held  
3 right directly across the street.

4 And there was a lot of concern about the  
5 possibility of blowing dust carrying contaminants over to  
6 the bus parking lot area.

7 So we went out and -- the Health Department went  
8 out and did a -- as you suggested -- a health survey, a  
9 seral survey. In other words, we went out and drew blood  
10 from children -- everywhere from small children through  
11 very old adults in the area. We obtained about a total  
12 80 or 90 different samples.

13 Some of those samples came from what we call a  
14 control neighborhood, which is a different neighborhood of  
15 similar socioeconomic status about two miles distant from  
16 the site, which would not have any possible contamination  
17 from the site.

18 So we did these comparisons, and measured the  
19 levels of these pesticides in people's blood from the area.  
20 And in the final analysis, even though they lived right  
21 across the street from the site, and even though children  
22 were playing out on the site -- in fact, they did play  
23 baseball on the site, and that is about as close a contact  
24 as you can get without getting down and eating the dirt --  
25 even in those situations, we did not find any significant

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1 elevation of these pesticides in children of the exposed  
2 neighborhood compared with children of the same age groups  
3 in the control neighborhood.

4           What we did see in both groups, both the control  
5 group and the "exposed" group, was that there was sort of  
6 an increase in these levels with the age of the person.  
7 And that just alludes to the fact that the pesticides like  
8 DDT and lindane, which are organic chlorine pesticides, are  
9 absorbed into the body and they are stored. And they are  
10 very fat soluble, so they are stored in body fat tissues  
11 and stay around for a long period of time and actually  
12 accumulate as -- sort of concentrated as people ingest or  
13 inhale or whatever small amounts of these pesticides over  
14 the years from food products or whatever other sources. It  
15 gradually builds up.

16           But we could not demonstrate any effect  
17 associated with site. I looked at it and broke the  
18 neighborhood down into those who lived immediately adjacent  
19 to it and those who lived on the streets about a block  
20 away; and I couldn't see any differences in those groups  
21 either as far as the levels of pesticides.

22           There were no differences in health effects,  
23 reported illnesses of any type, or birth defects or  
24 spontaneous abortions or low birth weight infants in the  
25 two different groups.

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1           So with those results, you sort of have to  
2 decide whether or not there has been a valid exposure  
3 pathway before you go in and do a very extensive, long  
4 drawn out serial survey.

5           And even after you do the survey like that -- and  
6 maybe you did, say, demonstrate a slight elevated increase  
7 in pesticide levels in the blood -- that in itself does not  
8 necessarily mean that they are going to have any adverse  
9 effects associated with that.

10           It is really a situation where we really don't  
11 thoroughly understand what the levels mean in the body.  
12 You know, whether or not there is going to be any adverse  
13 effects associated with it.

14           The studies that have been done that have  
15 demonstrated cancer effect, at least for DDT and toxaphene,  
16 have been strictly in animal studies. In other words, they  
17 give very high doses of these pesticides to the animals  
18 over a very controlled period of time, usually a year or  
19 two years, and then they examine each animal in detail and  
20 look for cancers all over the body.

21           And some laboratory animals, you know, mice and  
22 rats, have developed cancer as a result of the exposures to  
23 these pesticides.

24           However, DDT has been used extensively for  
25 several decades prior to the time it was banned a few

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1 years -- or a decade or so ago. It was used very  
 2 extensively for a long period of time and applied directly  
 3 to people as a 1 percent delousing powder. It was very  
 4 effective killing the lice and had a very low toxic effect  
 5 on the people. There was -- it had very low acute effects.

6 And it is practically impossible to commit  
 7 suicide with DDT. I mean, you really have to ingest very  
 8 large quantities for it, but usually, if you ingest a very  
 9 large quantity you are going to vomit anyway, so it a sort  
 10 of self-protecting mechanism.

11 So it is very rare that enough of this pesticide  
 12 can be absorbed from the gastrointestinal tract in order to  
 13 cause any acute toxic effects.

14 Now, no one has ever demonstrated a cancer in  
 15 humans associated with DDT or toxaphene. They have  
 16 demonstrated certain types of cancers in humans associated  
 17 with drinking water that had levels of arsenic that were  
 18 ten or more times the drinking water standards for arsenic,  
 19 which is .05 milligrams per liter.

20 So in those situations -- there are a couple of  
 21 studies have been done; one of them in Taiwan where the  
 22 natural drinking water -- there is a natural contaminant  
 23 from ground formations containing arsenic -- where these  
 24 individuals developed elevated incidence of skin cancer and  
 25 lung cancer associated with that.

1           So -- but for the other compounds, though, it is  
2 really -- we have no hard evidence that these compounds  
3 cause any long term effects in humans.

4           MS. MONCADA: Well, I think that our concern as  
5 public officials and people in responsible positions, as I  
6 feel the responsibility for those families that are there  
7 so very close to that situation -- I think besides the  
8 threat of danger, whether it is real or not, to their  
9 health -- and if it is not there, I think that probably  
10 like the people in Mission, Texas -- since you went one step  
11 further and did more extensive study, it had an appeasing  
12 effect on the families and the community and the public  
13 officials, so that years down the road they are not going  
14 to say why didn't we insist on further studies if something  
15 comes up.

16           And I think that that would be the benefit, if  
17 nothing else, to do a little bit more extensive study so  
18 that families in the community see that we are interested  
19 in their situation, their health situation, with surveys or  
20 questionnaires or some indication of some interest or  
21 concern by your group or the public officials in this  
22 community.

23           I think that, at this point, that your study  
24 shows some information that does show that the level of  
25 contamination is contained to the area. But I think that

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1 it would certainly help and not hurt to go a step further  
2 and do something a little bit more extensive, perhaps, as  
3 Ms. Massignani suggested. And that is my statement.

4 DR. BEAUCHAMP: I will certainly agree with you  
5 that that often does have a very comforting effect, if it  
6 turns out that you can't measure anything in the blood.  
7 However, if you do measure something -- and I will guarantee  
8 you that if you go anywhere in the Valley and look for  
9 these pesticides in people's blood you are going to find  
10 it -- so in this situation it may not have a reassuring  
11 effect, because, you know, it is going to be there in  
12 certain levels.

13 We have been exposed to these pesticides for  
14 years and years, and as I say, they do accumulate in the  
15 body. And it is just something that has never been  
16 demonstrated as to whether or not these elevated levels in  
17 the body cause any adverse health effects. And there is no  
18 really good thing that you can do to get rid of this burden  
19 of pesticides in the body, once it has been built up.

20 So there would be nothing that we could offer as  
21 far as saying, well, go and take this pill for two months,  
22 or something like that, and it will get rid of the  
23 pesticides in your body. We just don't have anything like  
24 that that would help out.

25 MS. BROWNLOW: Thank you, Nife. We have three

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1 more people that have indicated that they want to speak.

2 If anybody failed to receive a card or wishes to  
3 add themselves to the list, let us know.

4 In the meantime, Rudy Rodriguez from the Crystal  
5 City Independent School District.

6 I don't know if we can answer your air question.

7 MR. RODRIGUEZ: I had quite a few questions, but  
8 they have been answered by questions that came from Miss  
9 Marilu and Ninfa. Mainly, the question was when were the  
10 tests taken for the air samples?

11 There are times in this town, or rather around  
12 Texas, when the -- like during the winter time, it starts,  
13 the dirt -- or the humidity starts going up from the  
14 ground. I live in Highland Circle, which is a mile away  
15 from the place, and you can get a smell where you can't  
16 even breath. That -- well, your nose gets stuffy during  
17 that time. And it is only for, let's say, a month or two  
18 when it gets real bad.

19 I can't assure you, like saying it is the month  
20 of September, the month of October; but I know it is during  
21 that time when you can see the fog starting to come up, and  
22 you start going out and you can get that smell of  
23 pesticides. And I mean it is heavy.

24 MS. TURNER: Okay. We did conduct air sampling  
25 at the site on October 18, 1986 and October 30, 1986. What

5  
16  
5

1 they found in the air at that time were no pesticides, no  
2 herbicides. They did find some trace amounts of volatile  
3 organic compounds, which could or could not be attributed  
4 to the site because they found these compounds in both the  
5 upwind and downwind samples. Looks like it was on both  
6 occasions.

7 MR. RODRIGUEZ: Like I said, I am not sure it  
8 was during October, maybe November, but it is in that time.

9 And I agree with Marilu and Ninfie about saying  
10 we would be concerned about having the people around the  
11 area -- I have lived there for 20 years, and I have people  
12 that has lived around that area that have died. And you  
13 can't say, you know, they died due to the pesticides around  
14 here; but there is always a big question.

15 Is it possible that -- true, we have been  
16 hearing some of the gentlemen say there is no danger, we  
17 have done studies. But have the studies been done here in  
18 Crystal City? That is the question.

19 Would you consider taking samples from the  
20 people at least, maybe, the area close to that particular  
21 area? And especially now that we have all these housing  
22 projects there where people are getting more toward that  
23 area to where maybe we can be, as citizens, say, okay those  
24 people living close around there are safe. Well, let's say  
25 the ones living a little further away from there are safe.

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1 I personally would like to say that even the  
 2 water would get -- there are some times that the water,  
 3 when you are getting drinking water, it gets a smell. The  
 4 only thing is that sometimes, if you don't get involved in  
 5 politics around here, you are not going to go to the city  
 6 and complain every time you get a smell when you are  
 7 drinking water; and say, well, we are having problems. You  
 8 just say don't drink the water right now; it seems like we  
 9 are getting a smell from the water.

10 But there -- for a fact you can get a drink  
 11 when you are drinking water or you open your water faucet  
 12 you do get a smell. I don't know whether the rest of the  
 13 people will get it, but I do get that smell.

14 DR. BEAUCHAMP: What sort of smell?

15 MR. RODRIGUEZ: It gets a -- it is not a chlorine  
 16 smell. It gets another -- let's say it gets a -- like  
 17 mold. Whenever -- like for instance when you get too close  
 18 where there is mold and there is water and there is mold,  
 19 you get a smell of -- I don't know. I could relate to  
 20 saying it is the tanks are getting too low and it is  
 21 pumping out the water that is way down on the bottom of the  
 22 tank. That is the only psychological thing I --

23 DR. BEAUCHAMP: I think you probably put your  
 24 finger right on it right there. At certain times of the  
 25 year where the water tank will drop down, after a long

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1 draught, you may well be getting down into an area that has  
2 sort of a sediment in it that has a lot more odor than you  
3 ordinarily have.

4 I think, however, that they have adequately  
5 demonstrated that this water table is very -- you know,  
6 where you get the city water is down 900 or 1000 feet. And  
7 they have adequately demonstrated that the pesticides are  
8 very well prevented from going down there by the -- any  
9 much deeper than a foot by the very dense clay layer.

10 They went down 180 feet and still didn't find  
11 any water, so you know that there is no connection down to  
12 180 feet. And you have 180 compared to one foot for these  
13 pesticides to attenuate, and you are going to be down to  
14 virtually a zero level by the time you get down a very few  
15 feet.

16 MR. RODRIGUEZ: If this project comes through,  
17 more or less, would you know when it would be coming  
18 through?

19 MR. HITT: We talked a little bit about that  
20 today, and the limitations that we may have as far as  
21 trying to get it through before the grant -- the possibility  
22 of the grant money from the Texas Aeronautical Commission  
23 ran out. And I said at that meeting -- and I will also say  
24 it here -- we get very apprehensive when we start talking  
25 about schedules, because it is an awfully difficult

1 situation that we deal with, as you realize, in hazardous  
2 waste, or else we wouldn't be up here talking at length  
3 about it.

4 Oftentimes when you think you have got the best  
5 control of the situation something else happens whereby you  
6 miss some time. However, we are very much concerned about  
7 trying to do this as expeditiously as possible. Given that  
8 fact, the next stage -- if the preferred remedy is selected,  
9 the next stage would be one of design, as I mentioned  
10 earlier, which could take us long as -- help me, Bob, if  
11 am wrong here -- five or six months.

12 And then we would be going out and procuring  
13 contracting services to actually do the cleanup, which  
14 could take another four to five months, possibly. And you  
15 are talking about three months or so to do the actual --  
16 three or four or five months maybe to do the construction.

17 If everything went extremely well, we could be  
18 out there maybe next summer, but I think that is being  
19 very, very optimistic. And I wouldn't sit here and ever  
20 say that we would be out there next summer cleaning up that  
21 site. We would like to be, but I don't know if that will  
22 happen.

23 MR. RODRIGUEZ: My question was, due to -- I  
24 think you mentioned it would take about four months or five  
25 months to get the job done. And being a school board

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1 member, I was hoping that if the project would be done, it  
 2 would be done when the school wasn't in operation, so we  
 3 wouldn't have the students or the young kids in the  
 4 community around the school there, due to the blowing of  
 5 the dust, so where they could be around there and get some  
 6 of that pesticide.

7 MR. HITT: I agree totally with you. We would  
 8 like very much to get it done in the summer. And Bob  
 9 brought up an interesting fact today, is that it is a  
 10 possibility that we could even do the cleanup at night, 60 1670  
 11 that -- and by all means, I tell you the workers would much  
 12 more rather be out there at night when it is cooler doing  
 13 the work than during the heat of the day.

14 So we will definitely keep that in mind. And if  
 15 there is any way, we will try to proceed with the cleanup  
 16 by next summer; but it is often very difficult to do.  
 17 Thank you.

18 MR. RODRIGUEZ: Okay. Thank you.

19 MS. BROWNLOW: Thank you, Mr. Rodriguez.

20 Henry Daly, Airport Commission. Hi, Mr. Daly.

21 DR. DALY: Hi. My name is Henry Daly, and I am  
 22 chairman of the non-functioning airport committee. Of  
 23 course, my interest is in flying, and from what I have heard  
 24 here tonight, it seems that most of you have already more  
 25 or less decided to go with the number three, the

1 consolidation, where you cover up the waste with some kind  
2 of film.

3 And for myself, as chairman of the -- this is my  
4 personal opinion -- I would like to see the number two  
5 option, where you would cover the entire area with an  
6 asphalt covering, because that would benefit the airport  
7 tremendously, while the other would not do anything for the  
8 airport except get rid of some of these concerns that most  
9 people are concerned about.

10 MR. HITT: Jim might want to address that. We  
11 did look long and hard at that one, but it has got a major  
12 limitation to it. Jim?

13 MR. McGUIRE: The problem that we found with the  
14 asphalt cap is a regulatory one. We -- when we cap it --  
15 that is what is called covering something -- we are under a  
16 kind of a requirement to do it by using the two foot and  
17 the one foot, then the two foot that is on the other  
18 remedy; the number three remedy.

19 And so the asphalt cap is not regulatorially  
20 compliant with our laws. We preferred a -- the cap is  
21 called a RCMA cap -- two, one, two: two feet, then one  
22 foot of drainage and then two more feet of soil. And that  
23 was what we preferred out at the site, was to do a cap over  
24 the entire area; leave it in place, because then you  
25 wouldn't have the problem of digging the stuff up and moving

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1 it. But by doing that, you would have this five-foot mound  
2 right next to your runway.

3 DR. DALY: Well, it seems that with the low  
4 level of toxicity that you are talking about, that an  
5 asphalt covering should be sufficient to cover all of that.

6 MR. MCGUIRE: Oh, it definitely covers it. But  
7 it is -- the maintenance on it would be higher than the --  
8 you would have to come back every time that asphalt cracked.  
9 You would have to have someone come back and fill it in  
10 every time.

11 DR. DALY: Well, the asphalt might crack; the  
12 caliche underneath would not. I presume you would put some  
13 caliche under there.

14 MR. HITT: We may very well do it. I think it  
15 really borders back to what the FAA was telling us about  
16 within 150 feet. We would have to add -- I don't think  
17 there is any way we could get around it -- have to add some  
18 elevation to that asphalt cap.

19 In other words, we couldn't just go in and make  
20 it level with the runways. So that you would have maybe an  
21 existing six inches, 12 inches -- I don't know -- if we  
22 just elected to do a capping alternative, which really  
23 doesn't comply with what our rules and regulations say --  
24 but anyway, you would have an aboveground elevation over  
25 the existing runway. And what the FAA has told us is that

1 that is unacceptable.

2 DR. DALY: Well, of course I was just going by  
3 what the letter said. But again I would stress that I  
4 would prefer to see the paving because it would help the  
5 airport.

6 MR. HITT: Okay; thank you.

7 MS. BROWNLOW: Thank you. That will be in the  
8 record, Mr. Daly.

9 Last but not least, Dorothy L. Galvan, Crystal  
10 City Independent School District trustee.

11 MS. GALVAN: Good evening. I didn't really  
12 intend to make a statement tonight, but on leaving home  
13 tonight my son asked me where I was going. I told him I  
14 was coming and he said, Are you going to go find out if my  
15 children are going to have four heads? So here I am. And  
16 I am very concerned, and I do have some questions to the  
17 gentlemen from the Water Commission.

18 I know that you are as concerned as we are here.  
19 I don't know how it works, but I know things filter  
20 underground, and the Nueces River is real, real close.  
21 What are the possibilities of this getting into our rivers?

22 MS. TURNER: The possibilities of it getting  
23 into your river -- you have the possibility of it  
24 infiltrating from agricultural activities in and around  
25 this community probably much more than you have the

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1 possibility of it coming from the site.

2 We did find minor amounts of arsenic leaving the  
3 site at the south end at .095 milligrams per kilogram.  
4 That is a very low level. So what I would say to you is  
5 that it may be in your rivers. I don't think that this  
6 site is contributing to the contamination in the Nueces  
7 River.

8 MS. GALVAN: Well, some of the other concerns  
9 that I had Ms. Massignani did -- she seemed to be reading  
10 all our minds, because she has expressed very much what we  
11 are thinking. And amongst them, of course, is item three,  
12 where you refer to the aircraft or the landing, instead of  
13 the human beings, and I will take it a step further.

14 Our children, who are in such close proximity --  
15 and we certainly don't resent you being here. If we are a  
16 little nervous or a little angry it is definitely not at  
17 you, it is because of the situation; and we do appreciate  
18 your being here. And I did have -- the question that Mr.  
19 Rodriguez asked, about when you do start actually doing the  
20 work; and then I will go a step further than Dr. Daly did

21 He prefers step two because of the landing  
22 place, and I prefer step four because it is a little bit  
23 safer, you know. And I want to know, what can you tell us,  
24 again referring back to my son that asked me that question  
25 in jest, and at first, you know -- I have been reading

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1 about this and we have been discussing it and it was, you  
2 know, like there is a possibility. But tonight when he  
3 made that comment, I mean it really struck home. And I  
4 would like to know what can you tell us about our children's  
5 children.

6 DR. DEAUCHAMP: Well, there again it comes back  
7 to the -- whether or not there has been what we would  
8 consider a real exposure pathway. And all the data we have  
9 looked at so far would indicate that there has been no  
10 mechanism that has really been in any extensive effect,  
11 whereby the pesticides from the site could get from where  
12 they are out there in the dirt, into pregnant mothers or  
13 whatever that would pass this on to their children.

14 So, when there really has been no defined  
15 exposure pathway, there is just no way that we can  
16 hypothesize any adverse health effects in you or your  
17 children or their children that would result from this.

18 MS. GALVAN: Thank you. On the blood testing, I  
19 also feel like we would be, you know, we would be more  
20 comfortable in the knowledge that something more was done.

21 And some time ago there used to be a little  
22 league field out in that area. And besides the little  
23 league field, like our schools, like we have told you  
24 before and I know you are aware of -- when our children  
25 were little ones and were out there, they rolled in the

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1 dirt and did everything else cut there. So therefore the  
2 possibility of this getting into their system is quite  
3 strong that it could happen.

4 And therefore, I would fee. more comfortable,  
5 and I know our community would feel more comfortable. If  
6 more precautions were taken; or at least an effort to see  
7 if there isn't something -- not just in the close proximity.  
8 Because some of these kids live on the other side of town  
9 but they want to school over here and they were there.

10 And I would also like to know who is -- you  
11 know. Whose fault it is is beside the point. What is the  
12 point is who is ultimately responsible. Who will assume the  
13 responsibility if there are adverse consequences in not  
14 choosing the right option. or if not enough is done -- like  
15 the blood testing -- further on down the line. If not  
16 enough has been done. who assumes that responsibility?

17 MR. MITT: I would like to say we can pass the  
18 buck. to tell you the truth, but we probably can't. with  
19 respect to that. I think there are safeguards built into  
20 the system, though, whereby that will not happen. In the  
21 fact that we just don't walk away from these sites after we  
22 get through. The state has to assure us that they will  
23 undertake operation and maintenance of any facility that we  
24 leave behind.

25 And that will be the case with Crystal City.

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1 also; is that there will be a long period of operation and  
2 maintenance that will undergo that will do it.

3 But by coming to you with this recommended  
4 alternative, I guess we are sticking our neck out in saying  
5 to you that we think this is a safe remedy. And if it is  
6 not, then I guess we were just wrong and we will have to  
7 make recompense later on. But we think it is a safe  
8 remedy.

9 MS. GALVAN: Well, is there a possibility that  
10 you will do the blood testing, or whatever testing is  
11 necessary, because, as your ancestors and mine have said in  
12 the past, an ounce of prevention is worth a pound of cure.  
13 So I would like to have a little assurance that you will  
14 give it some consideration, and that more will be done.  
15 Thank you.

16 MS. BROWLOW: Thank you very much. (Call, you  
17 went to answer?

18 MR. HICKHAM: I think in light of the public  
19 interest that we have had today, earlier and certainly  
20 tonight, your comments while they are on record will  
21 certainly be taken to heart by myself and will be carried  
22 back to our scientists at the Center; certainly will be  
23 factored into our health assessment.

24 Again, I ask the attendees here tonight and  
25 certainly any member of the medical community that might

1 step forward that has any data or any type of evaluation  
 2 that has been made to assist us in this endeavor. We would  
 3 certainly -- we have not shut the door.

4 And as I said earlier, what I have looked at at  
 5 this point, in my opinion, I cannot in all good conscience  
 6 recommend a health study. But if there is a medical  
 7 finding in the community that would warrant that, then  
 8 certainly we can open that option as well. So I leave you  
 9 with this, that the door is not slammed shut. But I ask  
 10 for your assistance with this as well.

11 MS. BROWNLOW: Thank you, Carl.

12 Lady in the back, I will get your card later,  
 13 but if you come to the microphone and say your name,  
 14 please. Thank you.

15 MS. LOPEZ: My name is Polly Lopez, and I work  
 16 for the Center Salud here in town. I am also a school  
 17 board member and I also live very close to the area. So,  
 18 as you can see, I am very interested in what is going here  
 19 tonight.

20 The other people that spoke before me pretty  
 21 well asked some of the questions that I had in mind. But  
 22 there were a few that I would like to address again, and  
 23 maybe I would like to hear some feedback.

24 First, I would like to know how long can you  
 25 check and find these traces in someone's blood; for how

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(11) (11) (11)

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1 long afterwards from the time of exposure?

2 DR. BEAUCHAMP: Well, for DDT, DDT accumulates  
3 in the body so the exposures that you have, you know, now  
4 will stay around for a considerable period of time. And  
5 exposures you get tomorrow will also add on top of that.  
6 And we found in the study that we did down in Mission that  
7 virtually everyone, whether they were in a distant control  
8 neighborhood or in the neighborhood that was right across  
9 the street from the pesticide plant, virtually everybody  
10 had levels that would indicate that they increased with  
11 time. So that a 70-year-old would be apt to have maybe ten  
12 times the level of a 2-year-old.

13 MS. LOPEZ: I understand that. But I guess my  
14 real concern stems from the fact that years back there used  
15 to be about four or five houses that were situated right  
16 next to the runway. And these houses were occupied with  
17 families that are still living in our community. And just  
18 because I know some of these people, I know that they have  
19 had physical problems.

20 And somehow I am sitting here wondering how much  
21 of those physical problems were related to the fact that  
22 they lived next to the runway. And they were there at the  
23 time there was crop dusting going on, because I remember  
24 doing home visits and being covered with dust.

25 DR. BEAUCHAMP: Well, we would certainly be very

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1 happy to look at any information that you can provide as  
2 regards to the individuals, the types of medical problems  
3 that they had, and make some evaluation as to whether or  
4 not we think there is any possibility that there could be a  
5 relation between the pesticides on the site and those  
6 physical problems.

7 MS. LOPEZ: I realize that money is always a  
8 limitation as to what are the options that you chose to put  
9 into effect in a certain community. And I take deep  
10 offense, also, that the statement said that it is hazardous  
11 to the landing aircraft but not to us. I would like that  
12 for the record, that I do not like that at all.

13 Also, there is something else that I would like  
14 to ask is -- once you alluded to the question a little bit,  
15 but I don't think you gave a time as to when you would do  
16 this. Once the capping is in place and you say that you  
17 check this, is it periodic checks? Is it once a year that  
18 you will come out to make sure that there is no leakage?  
19 Is it every two years, every three years? And then,  
20 really, for how long are you going to come out here to  
21 check these?

22 Because it is understood that the capping is  
23 going to protect against rainfall infiltration and rainfall  
24 erosion, but for how many years? Hopefully I am not going  
25 to leave Crystal City, and I am planning on staying here

1 for the next 20 years. And I am wondering, is this going  
2 to protect us 20 years from now?

3 DR. BEAUCHAMP: I will refer that question  
4 either to the Water Commission or the EPA. They are more  
5 directly responsible for doing follow-up.

6 MR. HITT: It varies on particular sites as far  
7 as when the actual inspection will occur. And that is --  
8 we have got to determine that through an operations and  
9 maintenance plan once we have got the design and the  
10 remedial action complete. But let me say what we have done  
11 in the past may give you an idea of what we may try to do  
12 at Crystal City.

13 Basically, it is fairly intensive at the front  
14 end of it, because -- or, right after the remedial action,  
15 because we want to make sure that the action is performing  
16 adequately. And so we will have probably some monitor  
17 wells around it again, even though we didn't detect any  
18 ground water. We will also be taking any runoff samples of  
19 something like that. Those are possibilities.

20 But after that, and the EPA as far as funding is  
21 responsible for one year of O&M, and then the state has to  
22 assure us -- and in most instances that lasts for 10  
23 years -- they have to assure us they will take over that  
24 operation and maintenance. So you are looking at a long  
25 term commitment from the state, for long term operation and

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1 maintenance.

2 I don't know, Bob, give me a -- maybe quarterly.  
3 every semi-year -- I don't know, as far as -- but I would  
4 say something on that level.

5 MR. CHAPIN: As Stan said, we would have to come  
6 up with an operations and maintenance plan as part of the  
7 design work. At the front end, as Stan said, we would  
8 probably want to inspect the site on a quarterly basis --  
9 every three, four months -- and then slack off as we are  
10 sure that the remedy is working.

11 As I mentioned earlier this afternoon, one  
12 possibility is that the state could contract with the city  
13 to provide the maintenance for the facility: either  
14 maintaining the cap or the grass, and make sure the grass  
15 is cut and watered, or maintaining the fence and the signs  
16 and that kind of thing. So that there would be somebody  
17 out there on a regular basis, and then somebody from the  
18 state may come down only once a year under a circumstance  
19 like that.

20 But we would be assuring that for the next 30  
21 years we would have a presence there in one form or another.

22 MS. BROWNLOW: Thanks, Bob.

23 MS. LOPEZ: I guess this question is also for  
24 the gentleman from the Water Commission. You said that you  
25 took some samples when you first started testing the

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1 waters, and I am wondering where you took the samples from?

2 MS. TURNER: We took ground water samples from  
3 your wells in Crystal City that supplied the public drinking  
4 water. We took two sets of samples from the Hosenback  
5 Well, the Airport Well, and the West Kinney Well.

6 MS. LOPEZ: Were these different from what the  
7 Water Commission did? Those are the same?

8 MS. BROWNLOW: She is with the Water Commission.

9 MS. LOPEZ: Okay. The reason I was asking this  
10 is because, like Mr. Rodriguez said, sometimes our water  
11 does have a very strong odor to it. And it is not a  
12 fluoride type of odor. And because I wear white uniforms,  
13 I am very aware that it stains my uniforms yellow. I am  
14 very aware of it. And if it drips on my white uniforms,  
15 they need to be redone a few times because the stain won't  
16 come out.

17 MS. TURNER: I cannot answer that question. I  
18 don't know what it could be that could be causing your  
19 uniforms to be stained.

20 MS. LOPEZ: Well, there was just an observation  
21 that I made while the conversation was going on.

22 VOICE: And it is not a rusty sort of color is  
23 it; brown?

24 MS. BROWNLOW: Do you know --

25 MR. CARR: May I make a comment while she is on

1 that point?

2 MS. BROWNLOW: Sure, if it is all right with  
3 her; sure.

4 MS. LOPEZ: That is fine with me.

5 MR. CARR: Are the wells that we have in Crystal  
6 City, are they water lubricated or oil lubricated? And is  
7 an oil lubricated pump permissible for a town to have?

8 MS. BROWNLOW: And what is your name, sir?

9 MR. CARR: Charles Carr.

10 MS. BROWNLOW: Thank you, Mr. Carr.

11 MS. TURNER: The city would answer that question.

12 MS. BROWNLOW: It had to do with whether the  
13 wells were water lubricated or oil lubricated, the  
14 indication being --

15 MR. CARR: That if they are oil lubricated --

16 MS. BROWNLOW: It could be oil?

17 MR. CARR: -- it could be oil.

18 MS. BROWNLOW: Okay.

19 MR. CARR: And the health man could answer that,  
20 if oil lubricated pumps are acceptable for a community to  
21 have.

22 MAYOR MATA: Probably the answer is that we have  
23 some rust in the pipes, and sometimes you use fire hydrants  
24 because you have fire in the vicinity or the fire hoses are  
25 being cleaned out. An amount of sediment will go through

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1 the pipes, because some of my T-shirts that were white  
2 aren't white no more, probably because of that. But I  
3 don't think it is because of contamination.

4 MS. BROWNLOW: Thank you, Mr. Mayor.

5 MS. LOPEZ: Thank you very much. I think that  
6 covers --

7 MS. BROWNLOW: Thank you. Is there anyone else  
8 who has a comment or a question?

9 Ms. Massignani.

10 MS. MASSIGNANI: I don't know if you ladies and  
11 gentlemen are acquainted with the Toxic Waste and Race in  
12 the United States study. It is a 1987 study from the  
13 Commission for Racial Justice, from the United Church of  
14 Christ.

15 And I would like to cite a portion of the study  
16 that addresses the topic of toxic waste and race, indicating  
17 that the burden of toxic waste falls most heavily on  
18 minority low-income communities and that, because these  
19 communities are often unable to assemble professional  
20 expertise to help evaluate the recommended treatment, they  
21 often have to settle for the least expensive and less  
22 thorough plan for treatment.

23 In looking over the price tag for the  
24 recommendation that your body has offered tonight to our  
25 community, the cheapest solution, save the do-nothing

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1 plan -- we wonder if you are not on that situation.

2 Muchas gracias y buenas noches.

3 MS. BROWNLOW: Thank you, Ms. Massignani. There  
4 have been several reports like that, and it will be a note  
5 in the record that you have referred to it, and thank you  
6 very much for bringing it to our attention. Do you have an  
7 extra copy of that? Why don't you let us have one to take  
8 back. Thank you.

9 Bob?

10 MR. CHAPIN: I would like to make one point in  
11 reference to that. We have sites all over the state; some  
12 of them are in middle-class neighborhoods; some of them are  
13 in poorer neighborhoods. As far as the Water Commission is  
14 concerned, we go through the same process to reach the  
15 decision for all the sites. And we have treated this site  
16 absolutely no differently than we have treated any other  
17 site.

18 For your information, there is a new program in  
19 the new law that EPA is still in the process of putting  
20 into effect, that would give technical assistance grants to  
21 community groups to hire a consultant or expert to do their  
22 own independent evaluation of the government's reports.

23 Now, the rules and regulations as to how to get  
24 those grants are not yet in place; the EPA is still working  
25 on those. But the law did mandate that communities which

1 are concerned can be eligible for up to \$50,000 for  
2 technical assistance to do their own independent  
3 evaluations. The time frames are something like six months  
4 to a year, I think, until the --

5 MS. BROWNLOW: We have just published a --  
6 believe it or not; you will love this -- a proposed interim  
7 final rule. And then we are going to have an interim final  
8 rule. And then we are going to look at that for a year and  
9 have a final rule. 00  
10 06

11 So I wish I could -- thank you, Bob, for bringing  
12 it up -- I really wish I could be optimistic and say to you  
13 that it looks like this community would be eligible,  
14 because it is difficult to assess. But I suspect that you  
15 are going to have your Crystal City airport situation  
16 completely solved --

17 MR. CHAPIN: That would not preclude them from  
18 doing that anyway.

19 MS. BROWNLOW: Absolutely not. But as far as  
20 \$50,000, we will make sure that when the rule making is  
21 finished -- and it is due out in November, was the last  
22 that I heard -- that you know about it in case you all do  
23 want to apply. Probably at the stage that you will be, the  
24 whole 50,000 wouldn't be available; that is one of the  
25 things up in the air. But we will sure let you know.

26 MR. RODRIGUEZ: Just in case, who is the person

1 there to be contacted?

2 MS. BROWNLOW: Moi.

3 MR. RODRIGUEZ: Okay, thank you.

4 MS. BROWNLOW: You are welcome. And thank you  
5 for bringing that up. Anyone else?

6 Yes.

7 VOICE: I have a question I failed to ask a  
8 moment ago.

9 MS. BROWNLOW: Would you mind terribly coming to  
10 the microphone so that we can capture it for the record?

11 VOICE: I will make my voice carry.

12 MS. BROWNLOW: All right; fine.

13 VOICE: Is there a ceiling on the amount of  
14 money that could be allowed for our problem here, from your  
15 agency?

16 MS. BROWNLOW: No.

17 MR. HITT: No. There is no ceiling.

18 VOICE: What criteria is used in determining how  
19 much, or what option? Ideally, we would like this  
20 option -- which is what, option seven, eight --

21 MS. BROWNLOW: Our best is --

22 VOICE: -- is very expensive.

23 MR. HITT: Well, we really don't think it is the  
24 best option, to tell you the truth. Because we would have  
25 recommended that option to you, had we thought it was the

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1 best. Just because you associate money -- more money with  
 2 the remedy doesn't necessarily make it the best remedy.  
 3 You have got to go and look at other factors besides what  
 4 the dollars are there to tell you what is the best remedy.

5 I would tell you, the things that we look at in  
 6 selecting a remedy is, first, they must protect public  
 7 health and the environment; second, we must follow all  
 8 applicable and appropriate or relevant regulations; third,  
 9 it must be cost effective. And cost effective implies not  
 10 only cost, but implies the technical practicability of  
 11 implying that remedy at that site.

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12 So there are other factors other than just cost,  
 13 and cost is one of the least preferred under the new  
 14 Superfund bill of all things. But because of the situation,  
 15 the site conditions that we -- I am sorry. The fourth  
 16 thing is that it must be a permanent-type remedy. They are  
 17 looking for permanents.

18 One of the least preferred things -- and one of  
 19 the things that you saw there as far as cost-wise -- was  
 20 off-site disposal. Under the new Superfund bill, off-site  
 21 disposal is very, very much discouraged, because the  
 22 problem with hazardous waste in this country as it exists  
 23 today is because people didn't treat their waste adequately  
 24 on-site and elected to not treat it at all or treat it  
 25 somewhere or take it somewhere else and say, Out of sight,

1 out of mind.

2 VOICE: Well, I appreciate that. I would like  
3 also to know -- I mean, I agree with out of sight, out of  
4 mind. But I would also like to know who makes that final  
5 decision as to --

6 MR. HITT: The agency itself makes that final  
7 decision. And that is why we are here tonight with the  
8 proposed remedy, taking it to the public. Once we receive  
9 all public comment, then we go back and we will brief the  
10 necessary folks, that being the regional administrator of  
11 EPA will be the person who decides whether this remedy gets  
12 enacted or not.

13 VOICE: Again, I want to say thank you for being  
14 here; we do appreciate it.

15 MR. HITT: Thank you; I appreciate it.

16 MS. BROWNLOW: Thank you. Have we missed  
17 anyone?

18 Mayor?

19 MAYOR MATA: One final comment.

20 MS. BROWNLOW: Please.

21 MAYOR MATA: I also want to thank you for coming  
22 over. I also want to add that no action has already cost  
23 8.6 million. The recommended action is going to cost us  
24 1.6; this no action has already cost us about one-third.

25 The major issue here is making our community

ON THE RECORD REPORTING

(117) (MATA)

1 safe. I think that a couple thousand dollars more in  
 2 making us mentally healthy also, by securing us additionally  
 3 by saying okay, we are going to go a step further -- I think  
 4 that everybody has made a legitimate -- or voiced a  
 5 legitimate concern here. And I would ask -- no, let me go  
 6 a little bit further -- I would demand that you all try to  
 7 make the community happy mentally by saying, Okay, we will  
 8 go a step further by trying to satisfy you.

9 And I am sure you will try to accomplish that.  
 10 Thank you.

11 MS. BROWNLOW: Thank you, Mr. Mayor. And again  
 12 we appreciate your hospitality having us here.

13 Anyone else?

14 (No response.)

15 Call it a day?

16 MR. HITT: Thank you for attending.

17 MS. BROWNLOW: Thank you very much.

18 (Whereupon, at 9:05 p.m., the hearing was  
 19 concluded.)

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REPORTER'S CERTIFICATE

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DOCKET NUMBER:

CASE TITLE: Crystal City Airport Superfund Site

HEARING DATE: August 20, 1987

LOCATION: Crystal City, Texas

I hereby certify that the proceedings and evidence herein are contained fully and accurately on the tapes and notes reported by me at the hearing of the above case before the United States Environmental Protection Agency and that this is a true and correct transcript of the same.

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Date: September 8, 1987

*W. Palmer*

Official Reporter  
on the record reporting  
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Austin, Texas 78731