

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5

PUBLIC MEETING on Moss-American Superfund Site
Proposed Plan for Cleanup
Vincent High School Cafeteria
7501 North Granville Road
Milwaukee, Wisconsin

PROCEEDINGS had scheduled for 7:00 p.m. on June
21, 1990, Vincent High School Cafeteria, 7501 North
Granville Road, Milwaukee, Wisconsin.

Susan Pastor, Community Relations Coordinator,
U. S. EPA - Region 5, 230 South Dearborn Street, Chicago,
Illinois 60604.

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Gary Edelstein, Wisconsin Department of Natural
Resources.

Reported by Ellen E. Walfoort, on behalf of
Professional Reporters, 1 East Marion Street, Milwaukee,
Wisconsin, 53211.

P R O C E E D I N G S

1
2 MS. PASTOR: I think we'll get started. It's a little
3 after seven. We wanted to wait until everybody got
4 settled.

5 Good evening, everyone. I'd like to welcome you to our
6 meeting tonight on the Moss-American Superfund site.

7 Tonight we are going to explain to you the remedial
8 alternatives, what we call our clean-up options, that we
9 have available to us for the Moss-American site. We have
10 one that's recommended. We call that our proposed plan,
11 and we also have some others that were available to us, and
12 those came through our Feasibility Study. AND Betty Lavis
13 from the U. S. EPA will explain those to you a little bit.

14 And you'll be able to ask questions on those and make
15 public comments on those later on.

6 I'm Sue Pastor. I'm the community relations
17 coordinator for the site. And Gary Edelstein is next to
18 Betty. He's with the DNR, and he's worked very closely
19 with her on the project.

20 We have a few handouts in the back of the room. I
21 hope you all picked these up. Our agenda, for example, is
22 something we're going to stick very closely to tonight, so
23 do try to follow along with that and some of the other
24 handouts we have.

25 We have a fact sheet, this gray piece. It came in the

1 mail to some of you, and if you didn't get it in the mail,
2 you are able to pick it up in the back of the room.

3 The Department of Health has also put out a handout on
4 PAHs, and these are some contaminants of concern. And we
5 thought we would have a separate handout to explain those
6 to you, so at least you'll be able to follow along on
7 those.

8 And about those alternatives that I had just mentioned,
9 we have a separate sheet on those to help you follow
10 through those.

11 Okay. We have a lot of technical information, and we
12 couldn't bring it all here tonight. Some of it is in this
13 box back here, some of the documents: the investigation
14 reports, the feasibility study, some other things; but if
15 you would like to investigate this further, further than
16 our fact sheet that we have here tonight, we have what we
17 call an information repository, and that's basically a file
18 of all the documents generated. And that's at the Mill
19 Road Library here in Milwaukee.

20 Now, also our administrative record is also located in
21 there, and that's an even larger file of all the documents
22 that have been compiled throughout the process.

23 We want to give you an opportunity to ask questions.
24 All the questions that you have we'll be glad to answer
25 those before we moving to our comment period. And I want

1 to explain the difference between questions and comments.
2 Questions, anything you have on your mind pertaining to any
3 of the alternatives, we'll try to answer for you. And then
4 the comments are basically a statement. If you have a
5 comment you'd like to make concerning the alternative that
6 we're recommending, that would be the time to do it. If you
7 have something else in mind, if you prefer another
8 alternative, that's the time to tell us, and tell us why,
9 during that comment period.

10 Now, if you don't want to speak in front of a group or
11 you don't have your comments together tonight, the comment
12 period -- actually it was a thirty-day comment period;
13 we've extended it thirty more days. We had a couple of
14 requests to do that. So it will be going now to August
15 4th -- August 4th or 5th. So you have actually until that
16 time to get us a comment in writing. And in this fact
17 sheet there's a sheet that you could write those down. You
18 could write your comments down tonight too and hand them to
19 us, if you don't want to give it verbally.

20 There's a sheet in here, and it's a self-mailer, and if
21 you just want to fold it up and mail it to us. You can add
22 more pages if you want. That's just to get you started.

23 We have a court reporter here tonight, over on the side
24 here. And she's taking down everything we say, so if you do
25 ask a question or make a comment, you'll need to identify

1 yourself for her. And if your name is a little tricky, if
2 you could spell it for her, she'd appreciate it. And if
3 you represent a particular company or organization, maybe
4 you could mention that too, a governmental body or
5 something like that, that would help her out too. And she
6 won't hesitate to tell you that she can't hear you either,
7 so I've just told her to go right ahead and anything she
8 needs, to just speak right up.

9 So before we go into Betty's presentation, I thought
10 maybe we could just go over the Superfund process for a few
11 minutes because it's been a while since we've been here.

12 This is about where we're at tonight. This picture
13 really doesn't mean that we have people out here in
14 moonsuits every time we're out here. It's just a figure,
15 but we're right here at the FS. The Feasibility Study has
16 been completed, and that's why we're here tonight, to
17 present the alternatives on the cleanup measures that were
18 generated during this Feasibility Study.

19 But before we get to that point, we have a few steps to
20 get us here, like identification. Obviously, a site has to
21 be identified. It's usually called to the attention of the
22 EPA by the State. And from there it goes through what we
23 call a Preliminary Assessment and Site Inspection. PASI.
24 And the Preliminary Assessment is sort of a file search,
25 ny documents or anything that we can find to help us

1 understand the site a little bit better, any logs, any
2 ledgers, anything -- any documents that just might help us
3 with the history of this site.

4 And then Site Inspection is basically that. We have
5 people go out on the site and do an inspection so we can
6 get an idea of what's out there, who might be affected,
7 where contamination might be, what it might be, where it
8 might be headed. Just to give an idea what's there.

9 Then it goes through a rather complicated scoring
10 process, and if it scores high enough, it's put on what we
11 call our NPL, our National Priorities List. And anything
12 on the NPL is a Superfund site. And Moss-American is on
13 the NPL, it's Superfund site. And that makes it eligible
14 for cleanup under the Superfund program.

15 And then from there it goes through the Remedial
16 Investigation and Feasibility Study process. And that's a
17 kind of long-term study, where we take a good look at it,
18 we do a lot of sampling, a lot of data analysis, a lot of
19 laboratory work. And after we have that investigation
20 complete, from there we generate some alternatives on how
21 to clean up the site.

22 And that's where we're at right now. We've got those
23 alternatives, we've got one that we've -- we prefer, but
24 we're here tonight to take your comments. We're
25 recommending one. It's not set in stone. That's why we

1 have a comment period, to get an idea of what you folks
2 think of the alternative. Think of all of them, think of
3 the one we're leaning toward, but that's what the comment
4 period is all about.

5 And finally when it's selected, it's documented in what
6 we called a Record of Decision. And that's the document
7 that outlines the cleanup option that will ultimately be
8 used at the site, and then it's designed and finally
9 implemented and put into action. And I don't know if it
10 will look just like this picture, but you get the idea.

11 Okay. I think we'll have Gary come up and talk a
12 little bit about the State's involvement with the
13 Moss-American site.

14 MR. EDELSTEIN: Thanks, Sue. I'm Gary Edelstein. I'm
15 an environmental engineer working on the Superfund unit in
16 Madison, and I'm the State project manager. I've been
17 working closely with Betty on the project.

18 I'll talk a little bit about what our role is in all of
19 this. This project is classified as a Federal lead
20 project. EPA is taking the lead and working on it. And we
21 sort of have a consulting role, where we work with them to
22 provide comments on the reports that are generated, for
23 example, the reports that are in that box, where we do the
24 planning, the investigation, and evaluate alternatives.
25 We've been doing that as we've gone along.

1 An important portion of that review is we are
2 responsible for identifying any State standards,
3 environmental criteria, laws, that the remedy will have to
4 meet. And we've been doing that as we go along too. For
5 example, there are requirements for, say, a discharge to
6 the river. If we had some sort of treatment alternative
7 that involved a discharge of a waste water effluent, that
8 would be an example of a State standard under our water
9 program.

10 We are expected by EPA to formally concur with the
11 selected remedy. They want us to do this, and there's a
12 number of reason for that. One of the main ones is that
13 that we are expected, the State is expected to provide a
14 cost share should EPA and the State fail to reach an
15 agreement with the Potentially Responsible Parties at the
16 site to implement the remedy. And we can talk a little bit
17 more later about how that process works, but basically the
18 State and EPA negotiate with the Potentially Responsible
19 Parties to implement the remedy. If they refuse, the State
20 EPA will provide and implement the remedy and then go back
21 and sue later for costs recovered.

22 If we do not agree with the proposed remedy, we won't
23 provide a cost share and nothing happens.

24 During the implementation of the remedy, we can act as
25 EPA's oversight contract to oversee the work that's done if

1 the Potentially Responsible Parties implement the work. We
2 haven't decided yet whether we would have that role. That
3 would depend on our resources available at the time.

4 Another important aspect is that if the remedy does
5 go -- does not get implemented by the Potentially
6 Responsible Parties, the State must operate and maintain
7 the remedy after it is implemented, and, for example, if
8 there's a cover involved, the site does -- the preferred
9 remedy does involve a covering -- or if there's operation
10 of a treatment system that has ongoing aspects after the
11 main treatment is done, the State is fully responsible for
12 doing that.

13 Funds that would be used for a cost share or the
14 operation and maintenance comes out of what's called the
15 environmental fund. That's a fund under Wisconsin Statutes
16 authorized by the legislature.

17 That pretty much sums it up.

18 MS. PASTOR: All right. Thank, Gary. I guess we'll
19 have Betty talk about our proposed plan as well as all the
20 alternatives.

21 MS. LAVIS: If someone can't hear me or they can't
22 see, which you may not be able to see too well back there,
23 please raise a hand and Sue will notice and let me know
24 that you can't see or hear what I'm doing.

25 MS. PASTOR: And if you could hold your questions for

1 Betty until she's through with her presentation, we'll
2 answer all of them.

3 MS. LAVIS: The Moss-American site is the former
4 location of the Moss-American facility. You can see back
5 here, this is the site itself. Right here is the
6 Moss-American site. Here is Brown Deer Road along here.
7 And 91st runs through there. And, as you can see, the
8 river enters the northeast portion of the site and then all
9 the way down here to where it's -- it meets the Menomonee
10 River right there.

11 So the site includes both that upper portion up here,
12 which is approximately eighty-eight acres, and the four and
13 a half or five miles of the Lower Menomonee River, which is
14 located in the northwestern portion of Milwaukee County in
15 the City of Milwaukee. And sixty-five acres of the site
16 are Milwaukee park land, that's undeveloped, and the other
17 portion of the site, the remainder over to the west, is
18 owned by Chicago and North Western Railroad.

19 And currently Chicago and North Western Railroad is
20 using that portion of the site. It's fenced off. And they
21 have a car-unloading area there.

22 The history of the site began in about 1921. The T.
23 J. Moss Company initially established a plant on the site
24 and began treating railroad ties and fence posts and
25 similar items. During the time that they were functioning,

1 which was up until '76 when the plant was closed, they
2 discharged the creosote-laden waste and similar material.
3 Okay. They discharged to settling ponds.

4 This is where they were working, was up here, this was
5 the raised area at which the railroad ties and such were
6 treated. There was a ditch that ran down through here.
7 This is Brown Deer Road up here. And there were settling
8 ponds out in this area, and these are the heavily
9 contaminated areas. This was discharged into the Little
10 Menomonee River.

11 And attention came to the site on a national basis in
12 about 1971 when young people engaged in an Earth Day
13 cleanup were wading in the river cleaning up trash and they
14 developed serious burns. And after that there were a lot
15 of investigations at the site. About five hundred feet of
16 the river were dredged, and the settling ponds were also
17 dredged.

18 The dredging themselves were -- some of them were taken
19 offsite, and other parts of the dredging took place along
20 here, and they went into the area known as the Southeast
21 Landfill and the Northeast Landfill area.

22 There were continuing investigations up until about
23 1980 of the on-site soils and the sediment in the Little
24 Menomonee River and the groundwater. And in about 1983 the
25 site was placed on the NPL.

1 In 1987 we began our field work out there. That was
2 completed in '89, and reissued the remainder of the
3 investigation.

4 The investigation found the principal threat at the
5 site was the continuing presence of creosote. Now, you
6 have a handout on creosote. Creosote is a very oily
7 material that was commonly used to treat wood products, and
8 the major -- it's about -- contains about two hundred
9 different components, and eighty of those components are
10 what we call PAHs or Polycyclic Aromatic Hydrocarbons, and
11 of those PAHs a portion of those are suspected or known
12 carcinogens, and those are what we're concerned about out
13 at the site.

14 There is widespread contamination at the site. We have
15 contamination in the on-site soil. This line delineates
16 the extent of that contamination. It extends down usually
17 about three feet into the soil, but it may be as deep as
18 twenty. The on-site soil also extends outward to the
19 Northeast landfill area where the sediments are removed and
20 placed over there, so it's kind of an isolated area.

21 The groundwater under the site, which is this area
22 through here, is heavily contaminated. It's a shallow,
23 confined -- a shallow meaning it doesn't extend down beyond
24 twenty feet, and as you get down toward the river itself it
25 comes really pretty much up to the surface. It's confined

1 by a deep layer of clay at the bottom, which extends on
2 down for another sixty or so feet, and this separates it
3 from the regional aquifer, and our deep wells didn't detect
4 any contamination in the regional aquifer.

5 The groundwater flow is -- that is west over here -- is
6 mainly in this direction through here. So it just
7 naturally flows right out into the river and contaminates
8 the sediment there.

9 The sediments themselves are grossly contaminated.
10 This extends for the entire length of the river. Look at
11 that, this graph, now, this is Brown Deer Road up here, and
12 these are the major roads that cross over the Little
13 Menomonee River through here. And, as you can see, these
14 are all the sampling points on the river. It doesn't
15 really taper off that much as we get down to the confluence
16 of the Menomonee River.

17 Now, we did do what we call background sampling
18 upstream of the river and in the Menomonee River itself.
19 Both upstream and downstream from the site. Background is
20 a term for levels that we would find away from the source
21 of contamination. In this case it isn't a naturally
22 occurring background because PAHs are not naturally
23 occurring substances.

24 We found in the river that in the main Menomonee River
25 upstream of the site there's already existing levels, not

1 very high, but already existing. Downstream from the site
2 they actually tapered off. So when we were defining sites,
3 we did not included the Menomonee River itself in that
4 definition because we didn't feel that there was a great
5 deal of contamination being contributed by the Little
6 Menomonee River.

7 The surface water itself in the Little Menomonee River
8 does not appear to be contaminated. This is in keeping
9 with the nature of the Poly Aromatic Hydrocarbons because
10 they are dense, they tend to sink down into the sediment.
11 So unless the sediments themselves are stirred out, if you
12 were to go out there, take a stick, stir the sediments up,
13 then you would get this upwelling and a surface sheen down
14 the river. But until there's some kind of disturbance,
15 then the water itself is not contaminated.

16 The risks, of course, at the site are related to the
17 Poly Aromatic Hydrocarbons, the carcinogenic ones, and we
18 did a risk assessment at the site. This is required by
19 Superfund laws at every Superfund site. It's a very formal
20 process, and it's a very conservative estimate.

21 We look at the contaminants at the site and the nature
22 of the contaminants, the levels to see if they exceed State
23 or Federal standards. And we look at the -- we consider
24 the exposure pathways, those groups of people or the
25 environment or whatever that would be exposed to the

1 contaminants, and then we determine if a threat exists and
2 what degree of threat there is for public health in the
3 environment.

4 The Remedical or the Risk Assessment indicated that
5 the exposure routes at the site from these contaminants
6 were direct contact; their inhalation, if you had particles
7 that were disturbed and suspended in the air breathed in,
8 that would be inhalation route; or through ingestion,
9 either of the particles themselves or of the fish or
10 wildlife that you would be eating.

11 Those most likely to be exposed would be visitors to
12 the site, recreational users, children, who we know use the
13 site because we found the tracks of dirt bikes out there
14 and other evidence that children did play on the site, and
15 we found in the river itself inner tubes tied up on trees
16 to swing across the river, I presume. So we do know that
17 children and other visitors do use the site. There's also
18 a fishing trail along the river.

19 In the future if the site were to be used and not to be
20 remediated, at least the full risk assessment is based on
21 other remediated sites. If there was potential development
22 on the site and there was no remediation that would take
23 place, then those -- the workers, if people were to build
24 them on the site, then they would be at high risk because
25 they would then be exposed to the subsurface soil. And

1 that's the risk that was mentioned in the proposed plan,
2 the three additional cancer cases per 100 people. That
3 would be for extreme use of the site, a long-term, close
4 contact.

5 The risk assessment found that the immediate threat or
6 risk at the site is low, except if you do come in contact
7 with the sediments themselves or the groundwater in some
8 way. The risk is more repeated, long-term use, if you were
9 to be living on the site or something like that.

10 Well, now that I've sort of explained the problems and
11 what the risks are out there, you probably are wondering
12 what we're going to do, unless you read the proposed plan,
13 then you're way ahead of me and already know what we're
14 going to be doing out there.

15 There has been discussion, a lengthy discussion over
16 the years with Wisconsin. And Gary was too modest when
17 he was talking about his involvement in the site because
18 all of the Wisconsin Department of Natural Resources people
19 have been very involved in this and the discussion of
20 remedy, possible technology we could use there, and how we
21 were going to do it.

22 And we did consider a number of possible actions or
23 combinations of actions. But the choices, the basic
24 choices, are pretty simple. We can contain it. Or we can
25 treat it. Or we can burn it. And there is not much else

1 that can be done.

2 You all have copies of this probably anyway. The
3 Feasibility Study which was adopted and it followed the
4 Remedial Investigation report developed three alternatives
5 based on those three options. And this is the alternative
6 that we're suggesting.

7 There were other alternatives that were -- What is
8 the word I want? There were vast number of alternatives
9 that we looked at originally, and then we went through a
10 screening process, and the screening process compared
11 these, all the massive alternatives against the nine
12 criteria, which I'll talk about later.

13 The containment option, which is Alternative Two, the
14 problem with containing it, just containing it, it sounds
15 like it would be a good option, but it doesn't treat the
16 source. So we're not removing any of the contaminated
17 materials, they are just being contained in place.

18 The river is rerouted, and the river itself, the old
19 channel, turns into one long landfill, actually is what
20 would happen to it.

21 Since we don't treat the materials that are on-site,
22 the groundwater treatment becomes very difficult because
23 there is a continuing contamination of that groundwater
24 that I showed you earlier, and to clean it up could take
25 two hundred or more years. In fact, we think it might take

1 in excess of a thousand, which is not really reasonable for
2 a groundwater treatment program.

3 It is the least expensive of the alternatives: \$15
4 million.

5 If we were to incinerate it, that would, indeed, get
6 rid of the source of the material, it would destroy it, but
7 it's also a very expensive alternative, \$89 million, and it
8 isn't really more protective of the environment and public
9 health than some of the treatment alternatives.

10 We looked at a lot of different treatment alternatives,
11 and we finally settled on a biological treatment which has
12 been used around the world at wood treating facilities.
13 It's a very traditional way of dealing with their waste.
14 Usually it's more land-based, and it takes a long time to
15 do it. And there are -- fortunately there are now some
16 technologies that speed up the process and are more
17 effective, but they're also more effective about treating
18 the PAH's that we've been talking about, particularly the
19 carcinogenic ones that are a little more difficult, they
20 are a heavier molecule, they're more difficult to treat.
21 So this is more effective in treating it.

22 I'll go through the nine evaluation criteria that we
23 used to compare the alternatives.

24 The first thing we looked at some of that we put more
25 weight on than others and certainly it has to be tested

1 and proven. If it isn't, it's not really going to be of
2 much use. We also have to comply, just like anyone in the
3 private sector does, with all the applicable or relevant
4 and appropriate requirements, and those are known as ARARs,
5 for obvious reasons, but you can choke on them when you're
6 trying to say it all. And the remedy that -- all the
7 remedies that we have, all these six alternatives that we
8 have presented here would comply for the most part with the
ARARs.

10 We look at how effective it would be or what the
11 problems would be for the short-term; for the period of
12 time that we would be out there doing construction and
13 working, does it can you undo risk to the public health or
14 the environment; is there some kind of impact that we
15 really shouldn't be exposing people to.

16 And we look at the long-term effectiveness to see
17 what's going to happen fifty years down the line, which is
18 the problem, of course, with containment. If there were
19 development on-site, then long term it won't be effective.

20 And cost is used more make sure that we get the most
21 for our money. If you're comparing alternatives and what
22 is more effective than another but costs a lot, it might be
23 dumped at that point on the basis of cost.

24 Implementability, we have to be able to do it out
25 there. Maybe it's a great remedy, but for reasons like we

1 can't get the particular materials we need or maybe there's
2 a sole source, meaning one company we could get something
3 from and that would be a great difficulty. Or it just
4 maybe very hard to do something at the site because of
5 geological reasons or structural reasons, those kinds of
6 things.

7 It's also very important that the State agree with the
remedy selected, as Gary explained.

9 And the community acceptance is an important part of
10 it. If the community is opposed to the remedy, then we
11 don't want to use that one at the site. When we were
12 considering incineration, for example, most communities are
13 not really very excited about having an incinerator
14 present. So that would be a consideration for that
15 alternative.

16 The one that best met these nine criteria, at least in
17 our opinion, was the preferred Alternative Three A. It is
18 also in our proposed plan.

19 The elements of the preferred or recommended
20 alternative -- and you can see it reroutes Little Menomonee
21 River-- it removes -- and I'll talk about that later after
22 we just go through these -- it removes and biologically
23 treats the highly contaminated sediments and soil on the
24 site and then takes the treatment residue and what remains
25 here and covers it back on the site out of the flood

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2 a sole source, meaning one company we could get something
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18 also in our proposed plan.

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20 alternative -- and you can see it reroutes Little Menomonee
21 River-- it removes -- and I'll talk about that later after
22 we just go through these -- it removes and biologically
23 treats the highly contaminated sediments and soil on the
24 site and then takes the treatment residue and what remains
25 there and covers it back on the site out of the flood

1 plain. The sediments that are left in the riverbed will
2 also be covered over with soil that's excavated from these
3 channels.

4 We'll be collecting and treating the groundwater, the
5 contaminated groundwater, and discharge it to the sanitary
6 sewer. We have limits that Wisconsin has supplied us with.
7 We may also discharge it to the river, if the sanitary
8 sewer is not an option. And we'll be treating and exposing
9 that Northeast Landfill area too on the site.

10 The cost of this remedy would be \$26 million. And it
11 takes three or four years to complete, except for the
12 groundwater option, which will take longer, the groundwater
13 portion of it will take longer. It will take at least five
14 years and possibly ten to complete the groundwater, but
15 once we have complete the construction on-site, the
16 groundwater portion of it will be a very small, ongoing
17 treatment facility.

18 Now, for the rerouting of the Little Menomonee River,
19 I have a slide here that is good. This shows the main
20 Menomonee River here. The Little Menomonee River runs
21 through here on the blue line. The rerouting will be very
22 similar -- will be very close to the Little Menomonee River
23 and is going to be done to the existing channel. It's
24 going to be done in segments.

MR. EDELSTEIN: Page Five of the fact sheet has a

1 drawing.

2 MS. LAVIS: Okay. So the Little Menomonee River along
3 here will have the new channel dug very close to it. And
4 at each point, each crossroad here, for the reason that we
5 certainly can't move bridges, and it's very narrow under
6 there, the new channel will tie back into the old channel.
7 At that point the existing channel will be well cleaned, we
8 will have to take all the contaminated sediment out of
9 this, and a hydraulic barrier will be placed in the
10 existing channel to make sure that the water from the new
11 channel doesn't slip over into the old channel at that
12 point.

13 When we're digging the new channel, the soil from that
14 new channel will go between the new channel and the old
15 channel until the entire clean-up is completed. And then
16 they will be moved over, filling up the old channel. A dam
17 will be placed at each section to prevent the water from
18 flowing down through that segment on a temporary basis, and
19 a conduit or pipe of some kind will then run that water
20 around and into the next segment. Those will, as I said,
21 be done in segments. Each section will be completed, and
22 then the water will be rerouted through the new channel and
23 the old channel filled in. And this is true for each one
24 of these segments going on down.

25 Now, some of the alternatives talk about not rerouting

1 the river, and there's some very good reasons for rerouting
2 the river. One is that if you have looked at the river
3 itself, if you've walked the site, you know that for most
4 of it it's pretty much a straight shot through there. It
5 doesn't have bends, it doesn't have meanderings. It's very
6 much like a ditch. And there is a good reason for this,
7 because over the years it has been dredged, it has been
8 worked on to kind of come up with this configuration. And
9 the new channel that we're planning would more closely
10 resemble the channel that existed at one time back in
11 history.

12 The existing channel is also quite deep in places,
13 since it has been dredged out. If we were to dredge it out
14 some more and remove the sediments from that river, it
15 would get deeper and deeper, and you might have something
16 that would resemble the Grand Canyon there, and it would
17 take a great deal of soil to fill it back in, to raise it
18 up, to contour the banks. And Wisconsin DNR Resources
19 people have been concerned about the habitat out there.
20 They would like to see the wetland and the wild habitat
21 restored to the condition that it must have been in at one
22 time.

23 So we're trying to remove the -- I think I already said
this -- but trying to remove all of those sediments is just
going to create a problem there, and it's easier to dig a

1 new channel and start all over again so we can contour out
2 the banks, we can add in meanderings and the streams and
3 the little pools and everything that fish like and wild
4 creatures that would create habitat for the creatures that
5 live there again on that river site.

6 Sediments from the river from that old channel are
7 going to be brought back on-site to be remediated. And
8 that's going to be done in the slurry bioreactor, which is
9 a strange name for that system, but there is no reaction in
10 the reactor. It's a natural process that's being augmented
11 by oxygen and fertilizer for the bacteria and such, and the
12 bacteria that are out there now are trying break down, the
13 Ploy Aromatic Hydrocarbons. It's just part of the process.

14 They don't have the best possible conditions to do this
15 in, so the system that is being suggested would augment it.
16 This is the picture up here. I don't know that ours will
17 look particularly like that, but actually this looks a bit
18 ominous. This was taken at sunset. But these are big
19 tanks, and these tanks contain water and they contain the
20 bacteria, and they contain an airtation system on-site.

21 And the soil and the sediments that are brought back
22 on-site to be treated go through a two-part process.
23 They're first washed, and the debris is separated out and
24 treat separately. Then the soils that are remaining and
25 the water is mixed together in a proportion that gives you

1 a kind of slurry or thick mud.

2 This mud is then brought around and placed into the
3 tanks themselves and mixed up over a period of time. It
4 takes a few days. And we have a pilot study we'll be doing
5 to determine how long this will take.

6 We would be doing testing to determine if clean-up
7 standards have been met, and when they have, then that
8 batch will be emptied out of the tanks and dewatered and
9 put back onto the site, and the next batch would go in.

10 As I said, I should mention too that because of
11 Wisconsin winters the active bacteria do not like to be
12 cold particularly. We'll only be able to do this process
13 during the summer months when it's warmer. When it gets
14 too cold we won't be able to run the slurry bioreactor. So
15 the time frame is taken into account in the three to four
16 year we think we'll be out there.

17 I'm sure you probably have more questions about most
18 of the alternatives and the bioractor method, and there
19 will be plenty of time to ask those questions.

20 I think Gary pretty much went through this, but we'll
21 be asking the responsible parties to pay for this cleanup.
22 And if they decide to do that, then they will decide how
23 they will divide it up. If they don't agree to pay for
24 this cleanup, then we'll use the court to order them to do
25 it, or do it ourselves and then we will ask to be

1 reimbursed.

2 That's really about all that I have to say on this, and
3 I'm sure you have lots of question, so I'll turn that back
4 to Sue.

5 MS. PASTOR: Well, Betty, later is now, so if anybody
6 has a question, again, to help the court reporter out, if
7 you can state your name and maybe who, if you're
8 representing, and spell your name. And if you speak more
9 than once, she needs to know again your name, so please let
10 her know.

11 This gentleman right here.

12 [REDACTED] My name is [REDACTED] Now, we've
13 got some groundwater that's contaminated. Now, how deep
14 does that go? Does that go down to our aquified level or
15 to our saturated levels? How deep -- Did they determine
16 the depth of this thing?

17 MR. LAVIS: It only runs down about twenty feet and
18 extends out to about two hundred feet.

19 [REDACTED] Well, see, if it's aquified levels
20 that's contaminated down there, because they are natural
21 sponges down there where your groundwater --

22 MS. LAVIS: No. There's a confining layer.

23 [REDACTED] Pardon?

24 MS. LAVIS: There's a confining layer. There's a
25 confining layer between the groundwater plume that's

1 contaminated, and it runs down sixty to a hundred feet.

2 [REDACTED] Well, the -- you've got contaminated
3 groundwater below the groundwater is a saturated area, and
4 below the saturated area is aquified area, which is a
5 sponge area, that has to be satisfied before the saturated
6 area is satisfied to keep our groundwater. Now, if that
7 groundwater is moving at a foot a year, it's going to take
8 take forever, unless they removed that contaminated water.

9 MS. LAVIS: Oh, I think I see what you're saying.
10 The -- Part of it will be removed. Part of it will be
11 picked up and included in the cleanup. That would be part
12 of that soil there.

13 [REDACTED] My answer to this would be to --
14 probably be either the Alternative 5 or 6 would get rid of
15 this stuff once and for all and fill it in. Don't disturb
16 that river. What kind of damage are we going to be doing
17 to the trees on either side of this if we move, reroute the
18 river?

19 MS. LAVIS: So you're talking about the river rerouting
20 specifically now?

21 [REDACTED] Don't rerouting the existing river.
22 Clean it up, get rid of that damn contaminated water.
23 That's our problem. It's going to be moving right down.
24 It's going to keep on moving unless we dig it out of there.

25 MS. LAVIS: Well, There will be a cutt-off wall as part

1 of the groundwater treatment. There's a cut-off wall, a
2 geo-membrane that's going to be placed along the river.

3 [REDACTED] Will that be able to stop those --

4 MS. LAVIS: Yes.

5 [REDACTED] And keep those to the lower level?

6 MS. LAVIS: Yes. That would be down to the hard layer.

7 [REDACTED] The Aquified layer is the lower layer.

8 MS. LAVIS: It would be piped down as far as it needs
9 to be to get on-site contamination --

10 [REDACTED] We won't get rid of that groundwater,
11 contaminated groundwater. The saturated area is going to
12 be contaminated, and so will the saturated water --

13 MS. LAVIS: This will all get rid of that.

14 [REDACTED] -- so we should get rid of the
15 contaminated water.

16 MS. LAVIS: That's what we're doing.

17 [REDACTED] And you'd do that by Alternative 6.
18 Which is the most expensive, by the way.

19 MS. LAVIS: That's a consideration.

20 [REDACTED] But it will be less maintenance cost in
21 the end, and it will be used for existing -- like you said,
22 the Grand Canyon -- so we could use it. You're talking
23 about thirty-three thousand cubic yards on Alternate 5, so
24 how much would we need in Alternate 6? Alternate 5 and 6
25 are about the same except Alternate 6 says get rid of the

1 contaminated water, which is our big problem. That's --

2 MS. LAVIS: Five gets rid of it. All of the
3 alternatives treat the groundwater.

4 [REDACTED] Well, Six is about the most complete if
5 we want to get rid of our problem.

6 MS. LAVIS: That's true.

7 MR. EDELSTEIN: Well, under all the alternatives, even
8 under Alternative 6, there would still be some residual
9 deeper contamination, and you would not be able to remove
10 physically and incinerate, and you would still have to
11 collect that contamination in a groundwater collection
12 system. And over a period --

13 [REDACTED] There you would be maintaining like once
14 a year, and it would cost only \$18,000. That would
15 probably be the cost of a --

16 MR. EDELSTEIN: That includes the cost of treating that
17 collected groundwater. There would be a small amount that
18 would continue to be collected.

19 [REDACTED] Versus \$130,000. I know we're spending
20 \$86 billion, but I'd rather do it the right way than go
21 that way and get a half a job done. If you're going to do
22 it, do it right. That's my opinion. If anyone doesn't
23 agree with it then --

24 [REDACTED]: [REDACTED]
25 the area. I have to say I am happy to say I never fel'

1 the river, but I used to play along there quite a bit.

2 But I'd like some comments concerning the dredging that
3 you're talking about as that allegedly has modified the
4 direction of this river. I'm aware of some dredging that
5 took place around 1970, I think, when this was first
6 discovered. And I believe it was done by a volunteer who
7 camped out there for about six months. Anyway, and he --
8 this person I believe voluntarily dredged this river on his
9 own time. Can you comment on that, that dredging or any
10 others of which you know?

11 MS. LAVIS: I'm sorry. What did you want me to say
12 about the dredging? We know that all that dredging took
13 place.

14 [REDACTED]: Well, what other dredging are you aware
15 are of other than that?

16 MS. LAVIS: Oh. Apparently there's been dredging that
17 took place prior to that, back in the early 1900's. The
18 corps of engineers sees some straightening. That was my
19 understanding from talking with some of the Wisconsin DNR
20 people.

21 MR. EDELSTEIN: The stream has been straightened and
22 modified many times over its length, mainly to improve its
23 flooding characteristics and for agricultural purposes.
24 And that's very typical in Wisconsin in that the streams will
25 be straightened and channelized.

1 [REDACTED]: To prevent flooding?

2 MR. EDELSTEIN: It was considered a flood control
3 measure and also some more land could be farmed so you
4 wouldn't get, like, wetlands. It's a draining feature.
5 Very common in this state.

6 [REDACTED]: Thank you.

7 MS. PASTOR: Okay.

8 [REDACTED]: My name is [REDACTED], and I lived in this
9 area when I was a boy. We lived on a farm. And we used to
10 go skating in the river and hunting and everything else,
11 and there was never any thought of any harm. In fact, some
12 of my friends' fathers worked at the tie plant. And I just
13 was wondering when all this took place. I mean, we used to
14 think it was a pretty good thing that the people were
15 working out there, had a job, during the depression, and
16 like I said, it just didn't bother anyone. And we had --
17 We all had wells, and nobody complained about contamination
18 of wells.

19 MS. PASTOR: So when did we discover a problem
20 basically?

21 [REDACTED]: Yeah.

22 MS. LAVIS: I think probably 1971. That seems to be a
23 date which set off all the investigations and such because
24 I think there was suspected problem out there because the
25 DNR went out there, they did you need to do this and that.

1 [REDACTED]: Is the problem that bad that we're going to
2 spend \$36 million to correct it? I mean, we're living out
3 here now, a few blocks from the river, and I pass the
4 river, I ride my bicycle through the parkway, and I don't
5 see anything so bad about it.

6 MS. PASTOR: I think it's only 26.

7 MS. LAVIS: Only 26.

8 [REDACTED]: Only 26? Another thing, when we lived out
9 here they said there was three or four other or so of those
10 creosotes tie plants around the country. Now, what have
11 they done about it? Have they looked into that at all?

12 MS. LAVIS: I think most of these plants are having to
13 clean up.

14 [REDACTED]: They have been cleaned up?

15 MS. LAVIS: No. They are in the process or have to be
16 cleaned up. A lot of the sites are a form of treating
17 facility, and that's a very common problem.

18 [REDACTED]: I mean, we might be able to gain something
19 from what some of these other people --

20 MS. LAVIS: Well, in this case we have a whole river
21 which has been contaminated, and that's not -- other places
22 they don't have so much -- or they don't have that kind
23 have a gross contamination.

24 And it seems very likely that you wouldn't particularly
25 be bothered with it until -- it wouldn't bother your

1 groundwater anyway. It's a contained area where the
2 contaminated groundwater is, and it's feeding right into
3 the river. So it wouldn't affect your wells anyway. But
4 it's more of a problem of a continuing source of
5 contamination for that river.

6 MR. EDELSTEIN: Our understanding is that that stretch
7 of river is essentially a fairly dead stretch in terms of
8 aquatic life living in there. And people who are walking
9 along may not notice that. The creosote generally settles
10 to the bottom of the river, so over the years this
11 discharge has been there, but you don't notice it unless
12 you're right up at the plant and you saw the oil going into
13 the river.

14 We have historical reports of that sort of thing, where
15 people would call and complain they see oil by the site.
16 That's very common. But once got downstream where it has a
17 chance to settle, you wouldn't see it. So from a visual
18 standpoint, you're right, it doesn't seem like much of a
19 problem. You could still go ice skating, and there really
20 is no way it could get into the wells because of the
21 confined nature of this area. A lot of the soils there are
22 clay, and it's high groundwater, everything tends to flow
23 generally right into the river, so it becomes a surface
24 problem.

25 [REDACTED]: The other thing I'd like to know, who are

1 the responsible parties, the potential responsible parties?

2 MS. LAVIS: The ones that we have identified are
3 Kerr-McGee, who owned the facility --

4 [REDACTED]: Who are they?

5 MS. LAVIS: Kerr-McGee Corporation. They own the
6 facility. And the County of Milwaukee because -- Well,
7 Kerr-McGee owned and operated, and the County of Milwaukee,
8 and the Chicago and North Western Railroad now owns the
9 property, so they also --

10 MS. PASTOR: By the way --

11 [REDACTED]: Was it Kerr-McGee that polluted the --

12 MS. LAVIS: Right.

13 [REDACTED]: I think that's the people you need to go
14 after.

15 MR. EDELSTEIN: Well, they bought the facility from
16 other people before them.

17 [REDACTED]: But they were the last ones.

18 MR. EDELSTEIN: Well, they bought the facility from
19 other people before that. But they were the last ones.

20 MS. PASTOR: By the way, anybody who -- any PRP would
21 be anyone who owned it, operated it, generated waste,
22 transferred or hauled during the course of its operation.
23 So that's why we have these three. And if there were more
24 to be identified, we would bring them in as well.

25 MS. LAVIS: It's clearly defined by law who is a PRP.

1 We don't arbitrarily make that choice. The law says
2 certain people, owners or past owners or past operators,
3 are PRPs.

4 MS. PASTOR: Anyone else have a question?

5 [REDACTED]: My name is [REDACTED]. I'm a

6 [REDACTED].
7 I'm a little confused by the numbers that are
8 illustrated here. You talk in your proposed alternative of
9 bioremediation and soil washing and 86,00-some-odd cubic
10 yards, and yet in the incineration one you're going to
11 treat 163,000. Please explain the difference.

12 MS. LAVIS: The volumes are decided by -- or the volume
13 changes according to what we're going to treat. We're
14 treating to risk- or health-based levels.

15 [REDACTED]: I'm sorry. I didn't hear.

16 MS. LAVIS: We're treating to health- or risk-based
17 levels, and so different alternatives treat a different
18 amount of soil that's contaminated to certain levels.

19 [REDACTED]: Are you implying that the 86,000 cubic
20 yards of remediation will not be as complete as the
21 163,000?

22 MS. LAVIS: It reduces the risk to what we consider to
23 be an acceptable level. And the rest of it will be
24 contained, and it won't be available for contact, won't be
25 contaminating.

1 [REDACTED]: Why couldn't the incineration reduce
2 the risk to the same level? I don't understand. How can
3 you reduce a risk if you're not going to treat it?

4 MS. LAVIS: But we are treating it.

5 MR. EDELSTEIN: I think part of the reason why there's
6 a difference in volume, the main reason is not just the
7 risk level, but I think -- Alternative 3A involves river
8 rerouting; alternative 6 involves river dredging. Okay?
9 With the river rerouting alternatives, especially 3A and
10 3B, we're looking at only treating the grossly contaminated
11 sediments. It's going to get most of the mass of the
12 creosote. We're going to get most of the contamination.
13 Okay? But we're not going to get it all. And that's okay
14 because we're going to be rerouting the river. Except at
15 the crossing points, that's where we're going to get it
16 all.

17 So for the incineration alternative, you're going to
18 treat all the sediments. That's a larger volume. And I
19 think it is, what, the six thousand or so yards that are
20 grossly contaminated.

21 The soil that's going to be managed for Alternative 3A
22 is also just the grossly contaminated soil. That is the
23 major mass of contamination that's going to be treated;
24 whereas Alternative 6 we're talking about treating all the
25 soil in the incinerator.

1 What will happen then is after we get most of the mass
2 and most of the contamination under Alternative 3A, there
3 will be a small amount of residual contamination, large
4 volume of soil, small amount of residual contamination,
5 that will be managed by this groundwater collection system
6 we're talking about so it doesn't get into the river.
7 That's the main reason why there's a big difference in the
volumes.

9 Does that help you?

10 [REDACTED]: I don't know. I have some questions.

11 MS. PASTOR: Well, let's give someone else a chance,
12 and then we'll come back to you.

13 [REDACTED]: My name is [REDACTED]. I'm a resident
14 of [REDACTED].

15 I have a question about the new stream bed for the
16 Little Menomonee River. In your fact sheet under
17 implemenation you say that all four alternatives use
18 demonstrated technologies that are available. For the
19 Little Menomonee River you're talking about building a new
20 stream bed that you say will approach more natural
21 conditions existing prior to dredging. I'm wondering where
22 there are other examples of this having been demonstrated
23 and are they Superfund sites?

24 MR. EDELSTEIN: I can't think of any Superfund system
25 sites for the system --

1 MS. LAVIS: No. I think this is fairly unique for a
2 Superfund site. It certainly is done. There are a lot of
3 rivers that do get rerouted. The corps of engineers have
4 done a lot of that thing. But I don't think any Superfund
5 sites.

6 [REDACTED] You say there are examples of rivers of
7 being restored to the more natural condition than before --

8 MR. EDELSTEIN: Yeah. I've read about that happening
9 in other locations. They've actually done that in Florida.
10 In Florida they've installed canals, historically, to drain
11 wetlands so the land can be developed, and that's caused a
12 the lot of problems down there. And what's happening is
13 that as a result of that the corps is going back and
14 restoring these channels to what they originally were.

15 [REDACTED] And this river, no, I'm not aware of any in
16 Florida.

17 MR. EDELSTEIN: I thought they had done it. Maybe I'm
18 wrong.

19 MS. LAVIS: I thought there was one in Arizona, that at
20 least they were seriously considering doing that. But it's
21 sort of a new concept. Historically we've been channeling
22 these things straight through in order to supposedly
23 control -- flood control, and now we're realizing that's
24 not the best approach, and now there's a trend back toward
25 rerouting rivers to their natural condition. But certainly

1 not any Superfund site. This is a little unique for that.

2 [REDACTED]: If I were to contact you, could you tell me
3 some non-Superfund sites?

4 MR. EDELSTEIN: I can check with our water resource
5 people and see if there's any place in Wisconsin where
6 we're doing this.

7 MS. PASTOR: If you leave your name and phone number,
8 maybe one of us, Betty or Gary, could call you.

9 One of folks in the back. The gentleman in the red
10 hat.

11 [REDACTED]: My name is [REDACTED]. I've lived
12 out here along the river all my life. We did have
13 problems, you poke the stick in the ground and see the oil
14 come up. And it wasn't all my childhood. And rerouting it
15 means about -- what kind of distance span are we talking
16 here, fifty feet, a hundred feet? Where is it going to go?

17 MS. LAVIS: Well, it's going to vary. It -- Steve,
18 did we come up with the actual dimensions for the distance
19 between, or is it just going to tie back in? There's going
20 to be at least thirty feet between, right?

21 [REDACTED]: My name is [REDACTED]. I work for an
22 engineering firm in Milwaukee who provided some technical
23 assistance for the EAP and DNR. And that the actual
24 dimensions would not be determined at this point, and there
25 will be a subsequent way to -- th epreliminary design -- at

1 which time that would be looked at in greater detail and
2 start honing in on it. But probably just as a rough cut
3 could be fifty feet, a hundred feet, something like that.

4 [REDACTED]: The other question I had, you're talking
5 about putting the meanderings back in. Is that going to
6 cause any flood problems, because I know I personally have
7 seen this river come up three quarters of the way in the
8 springtime, even, like I say, dredged, the way it is.

9 MR. EDELSTEIN: Yeah. There will have to be an
10 analysis done to determine what the flooding impacts will
11 be of the new alignment, and it will have to be designed to
12 make sure that doesn't occur. And there will -- they will
13 have to -- when the stream is rerouted they will have to
14 meet all the State and local regulations, and there are
15 very stringent flood-plain regulations in the State that
16 would assure that that would not occur. But we don't have
17 the details on that. That would be during the design.

18 [REDACTED]: And you try to get as much local labor
19 as possible on this too?

20 MR. EDELSTEIN: Well, generally these -- something like
21 this I would think that there would be a good chance that
22 it would be a local contractor because it's straight
23 forward. Some of the more exotic technologies that we use
24 we sometimes don't have a choice, we have to go out to a
25 vendor that may be out of state.

1 MS. PASTOR: Okay.

2 [REDACTED]: I want to ask -- [REDACTED] again.
3 On Alternative 3 A and B would -- now they're going to
4 cover that existing river and reroute it, correct? That's
5 one of the alternatives? What's going to happen to that
6 creosote that's still laying on the bottom of the river
7 that they will be covering up? It's still going to be down
8 there, right?

9 MS. LAVIS: We'll dredge the old channel.

10 [REDACTED]: It will still be down below there where
11 it is right now. All they're doing is going to be covering
12 it with the new river bed. They're going to just put it on
13 top of there, and it's still going to be there, right?

14 MS. LAVIS: No. Most of it will be dredged out. Most
15 of it will be removed.

16 [REDACTED]: Well, why don't we just use 6 and get it
17 over with? Because you're going to go and just dump the
18 old on the contaminated creosote, you're not going to
19 correct the problem then. You're going to have to get rid
20 of that stuff.

21 MS. LAVIS: Well, I think in the old river bed we're
22 going to be removing almost all of it, and the rest of it
23 is going to be mixed with a solidifying agent. We're also
24 going to do some pilot studies. It doesn't tell you all
25 about it in there. If it told you all the details, it

1 would be --

2 [REDACTED]: Well, the fact that they get rid of that
3 damn groundwater problem, which is going to go right down
4 to that Northeast Landfill, it's going to go underneath the
5 ground into there, and it's going to be contaminated down
6 there. You put up some kind of a barrier, it's going to
7 get below in that saturated zone, and that groundwater --
8 I've been reading up on groundwater. And it's the reason
9 why I'm so interested, because of the fact that there's so
10 many myths about the streams underneath there with water
11 underneath, which is not true.

12 And it just -- the water collects in it and it runs
13 downhill at all times. And it could be ten yards wide or a
14 hundred yards wide, and it moves probably about a foot a
15 year. So how long is it going to take before they can
16 clear that up if they don't get rid of that? The water has
17 been sitting there now. You're not going to get rid of it.

18 MS. LAVIS: Well, we think that our groundwater method
19 will get rid of it.

20 [REDACTED]: If you clean up the ground now.

21 MS. LAVIS: Well, we're going to remove a great deal of
22 that.

23 [REDACTED]: You might as well get rid of all of it.

24 MS. LAVIS: Okay.

25 [REDACTED]: Okay, That's --

1 MS. PASTOR: Back there.

2 [REDACTED]: [REDACTED]. I'm a native of [REDACTED].

3 How far south were you able to document contamination on
4 the site?

5 MS. LAVIS: How far south?

6 [REDACTED]: Yes. How far downriver?

7 MS. LAVIS: In the Little Menomonee River?

8 [REDACTED]: It goes farther than that. I mean, the
9 river goes farther than that. What I'm saying is how far
10 south were you able to document contamination from the
11 site?

12 MS. LAVIS: We didn't document contamination from the
13 site in the big Menomonee River. Actually the levels
14 dropped off.

15 [REDACTED]: But I asked a question differently. How
16 far south did you do sampling analysis?

17 MS. LAVIS: Well, we did sample down from the conduit
18 quite a way. Steve or Don, do you know how many hundreds
19 of feet or whatever? It's in the FS.

20 [REDACTED]: Quarter mile, half a mile. [REDACTED].
21 And I work worked on the report. Probably half a mile.
22 And background sediment sampling, we sampled the Menomonee
23 River, we took samples downstream from the confluence of
24 the Little Menomonee. My recollection is that it was about
25 half a mile farthest downstream we went in the sampling.

1 MS. LAVIS: There is a whole appendix in the Feasibility
2 Study that talks about the background sampling that we did,
3 and you could -- we can look at that later and see the
4 results.

5 [REDACTED]: Just to follow up on that question
6 because I was looking at the southern boundary of the
7 Menomonee, and it looks like it's Hampton Avenue; is that
8 right?

9 MR. EDELSTEIN: That's where the confluence is. And
10 the contamination in the Little Menomonee extends all the
11 way from the site to the confluence. But beyond that we
12 really couldn't find anything.

13 [REDACTED]: Okay. But there was something on at
14 least one block south of Hampton?

15 MR. EDELSTEIN: Yes.

16 [REDACTED]: How far south of Hampton Avenue?

17 MS. LAVIS: That was like a half a mile or a mile down.

18 MR. EDELSTEIN: Well, it was also done closer to.

19 MS. LAVIS: Oh, yeah. It was closer.

20 MR. EDELSTEIN: It was done up close too, and couldn't
21 find any. See, the flow in the Menomonee River is a lot
22 greater and the dilution is greater, and I guess if there
23 was -- I'm sure there was some stuff that was carried
24 downstream, but you just don't see it.

25 MS. LAVIS: The values weren't any different really

1 downstream from the site, except that they decreased a
2 little bit, than they were back up the Menomonee River
3 where the Little Menomonee had no influence.

4 [REDACTED]: Thank you.

5 MS. PASTOR: Give you another chance here.

6 [REDACTED]: [REDACTED] again. This
7 bioremediation technique, by whatever you want to call it,
8 has it been used in the state before?

9 MS. LAVIS: Yeah. They have used it before. They're
10 using it at New Brighton in Minnesota. They are using it
11 in Texas and Florida. Do you remember any other places
12 they're using it? This particular -- I think that they've
13 used versions of it in Oregon and Washington but more for
14 PAH contamination. And there's also versions of it that
15 are being used in Europe.

16 [REDACTED]: Just to follow up, I want to stress the
17 point that I have not yet accepted your cubic yardage
18 problem. It doesn't make sense. But let me go on to say
19 have you explored the success that was achieved at the site
20 in Mississippi in which the contamination was the same as
21 it was here, although I will accept that I don't believe
22 they had a river contamination. But given that you're
23 going to dredge the river in either scenario and bring it
24 on land, you're going to treat it by one of a number of
25 different methods, and if you have not investigated that

1 Superfund site, I would suggest that for cost savings and
2 efficiency that you do so.

3 MS. LAVIS: Did you know the name of the site? Which
4 site is it?

5 [REDACTED]: Pardon me?

6 MS. LAVIS: Which site is it?

7 [REDACTED]: It's called the Prentiss Superfund site
8 in Mississippi. Creosote contamination. It was smaller,
9 but the contamination was the same.

10 MS. LAVIS: Okay. Thank you.

11 [REDACTED]: If I may, one more then? Where did you
12 get your data for your estimate? Who compiled the cost
13 figures for your estimate when you compared these various
14 alternatives?

15 MS. LAVIS: CH2MHILL.

16 MS. PASTOR: Someone else have a question?

17 [REDACTED]: How does temperature affect the
18 bioremediation on the creosote?

19 MS. LAVIS: The bacteria like to be warm, so as the
20 temperature decreases, the efficiency goes down. There is
21 an optimum temperature, and then there's a temperature
22 range. That's why we wouldn't be running the facility in
23 the cooler months. Unless we develop some

24 [REDACTED]: [REDACTED]. Okay. Then this, say,
25 normally I believe for a maximum operating efficiency on

1 this is 70 degrees Fahrenheit. Now, for complete
2 destruction you're supposed to have something like 200
3 70-degree days plus. What happens here in this area? We
4 only have about 120 days, and then we have winter, and it
5 goes down. Do they go into hibernation then or -- and get
6 activated when it warms up, or do they get destroyed by the
7 cold weather?

8 MS. LAVIS: Well, it's not same bacteria all the time.
9 I mean, we start the whole system again when it warms up.
10 We are not just using the same bacteria and just letting
11 them get cold and starting up again.

12 MR. EDELSTEIN: We actually -- here's another detail
13 which didn't talk about -- there are many of them for the
14 site -- but as part of the investigation for the site,
15 there were actually lab-scale treatability studies done on
16 the actual material to determine if these technologies will
17 work. And there was a small lab scale, bench scale
18 treatment tank that duplicates this process that was run,
19 and they were able to determine the treatment times. I
20 don't remember what the numbers were. Steve, they -- the
21 degradation will occur within a season, right? I mean,
22 they won't have too -- It's much shorter than one summer,
23 so you should be able to do several batches in a season.

24 [REDACTED]: How big are your batches that you're
25 dealing with?

1 MS. LAVIS: It depends on so many things, like the size
2 of the reactors, how many, whatever. But that's all
3 calculated out when they say that it's going to take three
4 to four years, that was taken into account. That wasn't
5 like three or four whole years continually. We look at
6 this in terms of how much can be done in a season.

7 [REDACTED]: Okay. How effective is this method in
8 the various Wisconsin areas? Say you have a soil super
9 saturated with creosote; how effective is this method on
10 attacking creosote and breaking it down?

11 MS. LAVIS: We have to make sure it's is a fine
12 consistency. We wouldn't just throw a bunch of the
13 contamination with a sheen on it.

14 [REDACTED]: So you have to have a certain parts per
15 million per tank?

16 MS. LAVIS: There's a range. For blending and things
17 like that. There's a range.

18 [REDACTED]: Okay. Prentiss, Mississippi, was on a
19 river. It was a tributary for the Mississippi River.

20 MS. PASTOR: This gentleman.

21 [REDACTED]: My name is [REDACTED]. I'm a
22 resident of the [REDACTED]. I'm also a lawyer,
23 and I'm here on behalf of the Chicago and North Western
24 Railroad, who, as already mentioned, owns a part of the
25 land here.

1 The Chicago and North Western, as you know, bought the
2 property in 1980, and their position according to when they
3 bought the property is they thought the problem was taken
4 care of in the mid-seventies, which I think you're aware
5 some work was done at that time.

6 They have been operating a facility on that property
7 which involves basically the loading and unloading of new
8 automobiles, and then trucks come in off the service road
and service the local area car dealers in southeastern
10 Wisconsin. We contract that work out to a company called E
11 and L Transport, I believe, is the name.

12 Over the last ten years we've been unaware of any
13 problems with regard to health effects or anything like
14 that with respect to the workers.

15 My question is this: Did your risk assessment take
16 into account the possible exposure to the workers who are
17 working on the site to the dust and other effects from the
18 bioremediation process and rechanneling and the dredging
19 and the digging up and everything that you hope to
20 accomplish here? Has that been taken into account at all?
21 The exposure to people working on the site, and, in
22 addition, exposure to people who reside in the surrounding
23 areas. Has that been taken into account?

24 MS. LAVIS: Well, I think so, yeah. It's not part of
25 the risk assessment per se. The Remedial Investigation

1 tells you what the risks are and exposure routes. But as
2 part of the health and safety plan, as part of the design,
3 the remedy, that was a very important part of it.

4 [REDACTED]: And what have you determined with
5 respect to any harm which may result to people either
6 working on the site or people who live in the area?

7 MS. LAVIS: Well, we have to keep that from happening
8 by keeping areas barricaded off in certain ways, by making
9 sure there isn't it dust blowing around. That is just part
10 of the process that we have to do in every site where
11 there's contaminants, and because at Moss-American there is
12 a lot of playing, working, and construction work, you have
13 to put up barriers and do the things that are appropriate
14 to protect the public. And that would be very much a part
15 of this treatment. And it would come about in the design
16 aspect again. We know it is possible to do this, we know
17 how to do it, but how much we have to do is coming out in
18 the design.

19 [REDACTED] I appreciate your concern to prevent
20 any exposure to anybody. My question though is whether you
21 analyzed that and have taken that into account in any of
22 your six proposed alternatives; in other words, as a
23 hypothetical.

24 MS. LAVIS: Yes, it's been looked at.

25 [REDACTED]: Is Alternative 2, will that present

1 more exposure than Alternative 5, or something like that?

2 MS. LAVIS: Well, do you remember the nine criteria?

3 [REDACTED]: Yeah.

4 MS. LAVIS: There is a lengthy evaluation in the
5 Feasibility Study on the nine criteria, and we go through
6 the short-term effects. And short-term effects are --

7 [REDACTED] [REDACTED] you talked about what the
8 effects can be, but my question is have you determined --
9 Let me be more direct. Have you determined that there will
10 be absolutely no effect on anyone working on the site or
11 any of the surrounding neighbors?

12 MS. LAVIS: Is anybody ever able to speak in absolutes,
13 except for attorneys?

14 [REDACTED]: Well, I'm not going to say that. But
15 it's a concern because we hire a company to do a job, and
16 there are worker out there who are loading and unloading
17 automobiles on the site. On the site that you propose to
18 dredge up. In fact, part of the process, if I understand
19 it, is to actually to go into part of our area, so to
20 speak, and dredge out that area.

21 MS. LAVIS: That's true.

22 [REDACTED]: And they're going to be there, and
23 they're going to be working. That's their job there like
24 they have done for ten years. And we would like to know
25 perhaps the neighbors and residents do too, whether

1 that's going to be a threat to that whole process.

2 MR. BELODY: Yeah. Okay. Maybe I can address that for
3 a second. This is Doug Belody (phonetic) with EPA. At
4 Superfund sites when we do risk assessments, basically what
5 we look at are the worst pathways of exposure, and on the
6 Moss-American site we perceived the worst pathway of
7 exposure were ingestion of contaminated groundwater and
8 direct contact and exposure to sediment.

9 As far as air inhalation is concerned, what you're
10 talking about was not considered a primary pathway of
11 exposure. And that's not to say that it isn't a pathway of
12 concern. What it's basically saying is there are two other
13 major or more critical pathways of exposure that the agency
14 did an analysis on.

15 MR. EDELSTEIN: No. He's talking about during the
16 implementation of the remedy.

17 MR. BELODY: Are you talking implemenation or just the
18 guys working on the site now?

19 MR. FREDERICKS: Well, I'm talking about what's going
20 to happen during the implementation process. We've been
21 working on the site for ten years, and nothing's happened.
22 And as far as we know, nobody's sick or suffered any ill
23 effects that we know of. But now we're going to have a
24 process where we're going to be dredging up, channelizing,
25 phant up a structure right on the property, I assume

1 with a similar line of questioning, you're going to be
2 depositing contaminated waste on the property and disposing
3 of it there, is that correct, treated?

4 MS. LAVIS: Right.

5 [REDACTED]: Am I correct in that understanding?

6 MR. BELODY: In the areas that are already
7 contaminated. We're not going to place any waste on the
8 site in an area that has previously not been contaminated.

9 [REDACTED]: So it's going to be put back into the
10 contaminated area?

11 MS. LAVIS: To be treated.

12 [REDACTED]: To be treated.

13 MS. LAVIS: Right.

14 MS. PASTOR: This young lady here in the back here?

15 [REDACTED]: [REDACTED]. What is the status of the
16 responsible party for doing that? Have they agreed who is
17 responsible for what and how much is going to be paid by
18 whom yet?

19 MS. PASTOR: She wants to know how the payment is going
20 to be divided up among the PRPs, if that's been decided
21 yet.

22 MS. LAVIS: That's something that the PRPs will decide
23 among themselves. One of them could decide to pay for all
24 of it; they could split it up equally. That's totally up
25 to them.

1 [REDACTED]: But it hasn't been done yet?

2 MS. LAVIS: They could have done it already and not
3 informed us. But not as far as I know.

4 [REDACTED]: My question is will any disagreement
5 between who is responsible and who should pay what, will
6 that delay the cleanup project at all?

7 MS. LAVIS: No. No. We have a period -- a set period
8 of time in which we would be negotiating with them. If
9 they do come to some kind of conclusion during that time,
10 then we would go ahead either with the court-ordered part
11 of it or we would do it ourselves.

12 [REDACTED]: I'm just curious, do you expect any
13 residual by-product of the bioremediation process?

14 MS. LAVIS: Residual? There will be treatment
15 residuals.

16 [REDACTED]: What are they?

17 MS. LAVIS: It will just be very -- insignificant
18 levels. We're cleaning up to a certain standard. When we
19 reach that standard, then we will have a residue there,
20 which is what we're going to cover in place. Is that what
21 you mean?

22 MR. EDELSTEIN: It will consist mainly -- It will look
23 like mud. It'll be mainly fine materials, smaller
24 materials. Some of the silt or clay-sized particles for
25 the most part that will -- generally the treatment level

1 we're going to try to get down to -- we're going to get
2 down to is we're talking about 6.1 parts million per PAHs,
3 carcinogenic PAHs, plus the general PAHs, and that's what
4 that material will have it in left. And it will look like
5 mud.

6 [REDACTED]: Okay. And, you know, I was thinking of
7 will there be some kind of chemical by-product from the
8 process itself?

9 MS. LAVIS: No. There will be nothing different in
10 coming out than we will --

11 MR. EDELSTEIN: Ultimately the bacteria will be
12 converted to carbon dioxide and water. We won't
13 chlorinated organics here, so we don't have to worry about
14 those types of by-products.

15 [REDACTED]: Now, the remainder of stuff, will the
16 natural processes work on that afterward too; you know, the
17 natural bacteria in the soil, will that also work on it
18 later on, or do you foresee any problems cleaning up later
19 on after you've, quote-unquote, cleaned up the site?

20 MS. LAVIS: Well, the residual levels that are
21 remaining will be very, very low. They're going to be
22 below any risk level that's of concern. And the processes
23 will continue very slowly. It takes a very long time. I
24 think it's something like a hundred years or so for certain
25 kinds of degradation to take place in those circumstances.

1 So it does take place, and it's taking place out there now
2 at this very slow level. But the levels we there are no
3 risks associated with it.

4 [REDACTED]:: Then after the rechannelization I
5 assume that's going to landscaped or taken care of that way
6 or going to be doing something other than just putting in a
7 channel and letting nature take its course?

8 MS. LAVIS: No. That's a very important part of it.
9 And a lot of people are involved in thinking about that and
10 planning it out because we want it to look better than it
11 looks now so they will be reseeding and replanting and in
12 general new species reinstated.

13 MS. PASTOR: It is hard to hear you in general.

14 MS. LAVIS: Oh, I see. The rechanneling of the river
15 is going to be reseeded and replanted and restored to
16 probably better than it's looking now.

17 [REDACTED]: One more question. It sounds like
18 you've come to your conclusion as to what you're going to
19 be doing, you've arrived at your alternative already.

20 MS. LAVIS: Well, that was part of the process, that we
21 look at all the alternatives. And we compared them against
22 these nine criteria, so we have an idea but about what we
23 think would be effective out there But that doesn't mean
24 we won't change our minds?

25 [REDACTED]: When are you going to begin this

1 project? When is the starting date? Is it even
2 determined?

3 MS. LAVIS: The starting date for the --

4 [REDACTED]: Of the beginning of the project,
5 whatever you arrive at.

6 MS. LAVIS: Oh, I see. Next year sometime we'll be
7 starting the design. In 1991.

8 [REDACTED]: Are we going to be notified again as to
9 what the results of your findings are?

10 MS. LAVIS: Oh, definitely. Definitely. There will be
11 a record of decision and all of these comments and replies
12 to the comments will be included in it.

13 MS. PASTOR: And it will all be in that repository, in
14 that document file, in the library. But we will continue
15 to mail you things, so if you signed up in the back of the
16 room, that means your name will be added to the mailing
17 list or kept on the mailing list if you're already on it.
18 But we will continue to send out information as we go
19 along.

20 And through the process if you feel you haven't even
21 been informed or missed something along the way, you can
22 call us any time you want. People generally aren't bashful
23 about calling us at EPA, and you shouldn't be either. Any
24 time between eight and four-thirty. We have an 800 number,
25 so you don't even have to pay for a long distance telephone

1 call. And it is on the fact sheet there. Betty's direct
2 number is on there, and so is mine, but we can also both be
3 reached through the 800 number. So you can always call us
4 if you feel you're in the dark about something in between
5 meetings.

6 Are there any other questions? Because if there
7 aren't, we can move into our comment portion.

8 MR. EDELSTEIN: This gentleman here.

9 MS. PASTOR: You're ready for the comments? Okay.
10 I'll just give out --

11 MR. EDELSTEIN: Did you have a question here?

12 MS. PASTOR: Did you have a question? Oh, you're ready
13 for the comments too? Okay. Well, then, again, the
14 comments are statements now. We're through answering
15 questions, at least for the time being. We'll stay
16 afterward and talk with you or show you some of the
17 documents or help you out in any other way we can. But
18 right now the comments are what we are interested in,
19 please, so make it, please, in the form of statement.

20 And later on the responses to those comments will be in
21 a response and summary, that's part of what we're calling
22 the record of decision, that's the document that will
23 ultimately outline what we will be doing at the site. And
24 that we expect to be signed by the end of September, if not
25 sooner.

1 So, with that then, let's move into the comment period.
2 And we need your name and address; if you represent someone
3 in particular the court reporter needs to know that.

4 ██████████: My name is ██████████. I'm a
5 resident, and I'm representing my interests as a resident.

6 I would first like to thank the EPA for sending out the
7 information. It's been very helpful. And on that I'm
8 basing my statement.

9 I came here tonight to speak in favor of Alternative 5.
10 I feel Alternative 5 would represent the least damage to
11 the trees, the environment, and the plentiful wildlife
12 that's in the area. We have deer, oils, hawks. You name
13 it, they live in these woods along this river.

14 I feel that Alternative 5 will represent and inflict
15 the least damage to the property and aesthetic values of
16 neighborhood. As a homeowner I'm concerned about property
17 values. There have been some problems in the area. And I
18 feel that the rerouting of the river, with the accompanying
19 destruction of the trees and the grass and everything else,
20 is too much of a cost for the average area resident to bear
21 in terms of decreased property value and aesthetic value.

22 I feel that the argument of difficulty mentioned under
23 Alternative 5 is more than offset by the fact that its cost
24 is less -- more than two million less than Alternative 3 A.
25 I don't feel that difficulty is a valid point. The burden

1 is on the responsible parties. The difficulty I don't feel
2 is something that needs to be considered by us here at this
3 meeting.

4 One of the alternatives, Alternative 6, mentions
5 on-site incineration, which I would like to go on the
6 record as being absolutely opposed to, due to the fact that
7 the fumes would be generated, and these fumes would, no
8 doubt, in my mind, be carried over into the neighborhood
9 residences, of which there are plenty in almost all
10 directions.

11 I feel that Alternative 5 would result in desirable
12 levels similar to what you're calling the background
13 levels, which is the desirable goal.

14 And I feel that -- based on what I've heard tonight,
15 it seems to me that it's too late in this process, at which
16 time we're ready to go into this remedy stage, to properly
17 analyze this rerouting idea. Apparently there has not been
18 enough analysis done of this rerouting, from what I can
19 tell from the discussion tonight.

20 I feel that Alternative 3 A could possibly cause
21 flooding problems. Again, not much discussion in that
22 area. But there was testimony or discussion indicating
23 that straightening the river was done in the first place to
24 reduce flooding. As a resident I feel that that is still a
25 desirable goal. And since the river has been using this

1 route for nearly a hundred years, I don't see much point in
2 rerouting it.

3 Thank you very much.

4 MS. PASTOR: Okay. Thank you. Who would like to make
5 the next comment?

6 [REDACTED]: I would like to congratulate you, you've
7 done an excellent presentation of this program and
8 explaining what you intend to do.

9 The only thing is I don't know where those
10 incinerators would be. Where would they be located,
11 on-site or what?

12 MS. PASTOR: As I said, this is comment, so we aren't
13 answering questions at this point.

14 [REDACTED]: Okay. But --

15 MS. PASTOR: We can answer it later for you, but if you
16 want to rephrase it in the form of a comment or think it
17 through, we can come back to you.

18 [REDACTED]: I don't know how to rephrase it. It is
19 a question, I know.

20 MS. PASTOR: Why don't we come back to you after we
21 take comments.

22 [REDACTED]: Okay. I'll wait.

23 MS. PASTOR: A comment. Sir?

24 [REDACTED]: My name is [REDACTED].

25 Ight I'm representing the Technical Advisory Committee

1 of the Milwaukee Estuaries Remedial Action Plan. For those
2 of you that don't know, the Remedial Action Plan is a
3 cleanup plan for the Milwaukee harbor and the three major
4 rivers that empty into it. It's one of forty-three similar
5 plans being developed all around the Great Lakes for the
6 so-called toxic hot spots, and we have a technical
7 committee and a citizens committee that have been working
8 on this. And we're --

9 The first stage of that plan has been problem
10 identification. We've been gathering a lot of information
11 and studying it very carefully to specifically identify all
12 the water and water-resource related problems in this area.

13 What I'd like to do is focus on a few key issues that
14 we see related to this plan, and I guess our comments are
15 more related to the planning process rather than the chosen
16 alternative.

17 First is that the remedial action plan is based on what
18 we call an eco-system approach, which means that when you
19 study a problem in one compartment of the environment, you
20 have to look at all the other related compartments and how
21 they affect that compartment.

22 When you study the water, you have to look at the
23 sediments, you have to look at the fish and wildlife,

24 sometimes you even have to look at the air pollution that
25 affects the water as well. You've got to look at all the

1 creatures that use the area, not just man.

2 We feel that this particular plan does not necessarily
3 use an eco-system approach. There's a very strong section
4 on human health. It seems like the stuff on the
5 environment is only an afterthought, and we would like to
6 see a stronger environmental component to the plan.

7 The second point would relate to cleanup end points,
8 the idea of how clean is clean, how far do we go? It seems
9 like we -- And I guess I'd have to say that the discussion
10 here was rather confusing. We have several fairly
11 technical people on our committee, and we all felt that
12 this was rather confusing. We seem to have ended up with a
13 ten to the minus four risk level after a long discussion of
14 risk analysis, and it seems like in the end it's a
15 technologically-based level as opposed to any of the human
16 health concerns that we talked about earlier. If that's
17 not the case, I'd like to know. But that was our
18 interpretation of it.

19 The third issue relates to boundaries. We've ended
20 this study at the end of the Little Menomonee River about
21 five miles downstream. In scanning the documents we didn't
22 see a real good justification for this. We're told that
23 one of the appendices the information is there. If it is,
24 I guess I'd like to see it brought forward and some clear,
25 concise statements made about that. We have several people

1 on our committee who aren't so sure of that conclusion. In
2 fact, we are trying to sponsor a very detailed study of
3 contaminated sediments in the whole Milwaukee area to
4 address this issue as well several others.

5 Lastly is the issue of ARARs. I seem to have a mental
6 block with that term. I think it stands for something like
7 appropriate reasonable applicable regulatory standards?
8 Something like that. And they seem to be basically State
9 standards for groundwater, for surface water, for
10 landfills, or whatever.

11 And I guess the problem we have is that the Remedial
12 Action Plan is part of the area-wide river quality
13 management plan. These are plans that are mandated under
14 the Clean Water Act, that EPA requires each State to
15 develop area-wide water quality management plans, and the
16 Clean Water Act indicates that all water quality management
17 activities will be in conformance with those plans;
18 however, the Superfund enabling rules and legislations seem
19 to say that only State-promulgated standards are the ARARs,
20 and they will not consider recommendations in an area-wide
21 plan. We'd like to see that changed, if possible.

22 I realize that staff here can't make some of these
23 changes, but I guess at a minimum we'd like to see two
things:

First of all, we'd like to see you talking more to your

1 co-workers in the Great Lakes National Program office, as
2 well as the Water Division to understand each other's
3 program better and make sure that you coordinate to the
4 best extent possible.

5 Secondly, we'd like to work with you as well at the
6 local level. Your planning and design process is ongoing
7 and so is ours. Let's talk.

8 Thank you.

9 MS. PASTOR: Okay. Who else would like to make a
10 comment?

11 MR. ANDERSON: My name is Tom Anderson, and I'm an
12 environmental specialist with the Wisconsin Division of
13 Health within the Department of Health and Social Services.
14 One thing that I'd just like to state at the comment period
15 at this time is that the Division of Health is in the final
16 process of concluding a health assessment done with respect
17 to the Moss-American site.

18 We have a cooperative agreement with the U. S. Agency
19 for Toxic Substance and Disease Registry in Atlanta,
20 Georgia, to conduct such health assessments. We have
21 submitted a draft version of that health assessment to
22 APSPDR, we have also submitted a copy of the health
23 assessment to Wisconsin Department of Natural Resources to
24 make sure that some of facts and figures used in the health
25 assessment are correct. We will also be sending a copy to

1 USEPA for their review to insure THE technical accuracy of
2 this document.

3 When it's finalized, a copy of the document will be
4 placed in the public repository at the library on Mill
5 Road. We expect that to be done this summer.

6 MS. PASTOR: Okay. Who else has a comment for us?

7 [REDACTED]: I just want to make a comment that with
8 incineration, if it's a properly designed unit, properly
9 operated, that the fumes coming out of that stack are --
10 there are no fumes at all. You cannot smell whether it's
11 coming out of the stack.

12 MS. PASTOR: Someone else would like to make a comment?

13 [REDACTED]: [REDACTED]

14 [REDACTED]
15 For the comment period I'd like to say that your
16 documents that you published is quite confusing. Your
17 explanation as to the volume of material to be moved and
18 the various alternatives do not guide, and in your comments
19 and responses to the questions you contradicted yourself.
20 And yet you made estimates on dollars based on what appears
21 to be confusing numbers. Confusing base numbers.

22 The bioremediation technique that you cite are good
23 under given different kinds of contamination. In the State
24 of Wisconsin, as in all northern states, they have problems
25 with temperature, they have problems with increasing the

1 length of time.

2 Now, if I was to go on record -- Well, I would state
3 that I would prefer incineration because of the
4 completeness of the destruction. I disagree vehemently
5 with the length of time that was cited here. And it
6 doesn't go by emotion; it goes by demonstrated success at a
7 Superfund site that I mentioned earlier.

8 In regard to the question of the fumes, there is an
9 exhaust from an incineration system. EPA's rules demand
10 that it be very clean, and these systems do produce very,
11 very clean fumes. They are less contaminant than your own
12 own chimney from your fireplace. Incineration does carry
13 a bad reputation. That we all understand. I don't want
14 this committee or staff to discount it on based upon
15 hearsay and based on lack of evidence.

16 I do suggest and very strongly recommend that you do
17 look at those sites that have had the same contamination or
18 very similar contamination in that the characterization of
19 creosote would be the same contaminant, and review and
20 analyze the successes that have been enjoyed at those
21 sites. And I believe that you will conclude that
22 incineration technique may be much closer in cost and in
23 success to what your goals are than even the bioremediation
24 technique that you are now contemplating.

25 Thank you.

1 MS. PASTOR: Thank you. Another comment? Yes?

2 MR. RICE: My name is George Rice. I'm a special
3 counsel for Milwaukee County and retired County corporation
4 counsel. I am special counsel for the County of Milwaukee,
5 and a retired County corporation counsel. I'm appearing on
6 behalf of Milwaukee County in a very limited manner.

7 As you know, we have worked with the United States
8 government since 1971 with regard to this particular site.
9 And we will surely hope that we will continue to work with
10 them in an effort to find the best possible environmental
11 solution and that we will then submit written comments by
12 the adjourn date of August 4th.

13 MS. PASTOR: Thank you.

14 MR. RICE: Thank you.

15 MS. PASTOR: For those of you who didn't hear that in
16 the back, he basically said that he's representing
17 Milwaukee County, and the County will continue to work with
18 EPA, but written comments will follow. Is that about it?

19 MR. RICE: That's right.

20 MS. PASTOR: And, by the way, all the comments tonight
21 and all those things that are said here will be in a public
22 transcript that will be in the repository as soon as we get
23 it and can send it off. Are there any other comments?

24 MR. EDELSTEIN: Yeah. I'm Gary Edelstein, the State of
25 Wisconsin.

1 The only comment I have at this point is that because
2 of the number of complicated aspects of this remedial
3 action and the potential impacts of the construction
4 associated with it and the details that have to be worked
5 out within the design, I'm strongly suggesting that EPA
6 hold another public meeting when the design documents are
7 available before the remedy is implemented so that public
8 participation can be had on the details of the design,
9 whatever remedy is selected. And that isn't always EPA's
10 policy to hold those kinds of public meetings, so I'm
11 suggesting that one be held.

12 MS. PASTOR: Okay. Other comments?

13 ██████████: ██████████ again. I didn't
14 realize that that procedure happens that way. And I concur
15 and also strongly suggest that EPA hold another public
16 comment meeting, but please do it before you get too far
17 into the engineering phase, so that you don't come to us
18 and say we've already spent \$5 million and therefore it's
19 cost loss if we proceed that way.

20 I would say that you consider having it some months
21 after you get closer to your decision but prior to spending
22 a great deal of money. ██████████: ██████████

23 ██████████
24 I would also heartily agree with the notion that we
25 have another public meeting. And I say that because now I

1 learn that there's a health assessment, which I understand
2 is going to be completed and on file this summer, and the
3 written comments, I believe, are due August 4th, and it
4 would be extremely helpful to have that health assessment
5 before those written comments. And I think it may be
6 helpful, in addition, to extend the written comment period
7 until that health assessment is available.

8 Thank you.

9 MS. PASTOR: Okay. Someone else?

10 Okay the comment period is closed. But I will say one
11 thing: We can have public meetings whenever you like. We
12 don't really have a policy one way or another that binds us
13 to a certain schedule. We have milestones, if you will,
14 where we think it's appropriate to have a meeting. But we
15 can have them whenever you like. So it's no problem to
16 have one during the design of a project, during the actual
17 action of it. We can have it whenever you like. So that's
18 certainly not a problem, and we will do that.

19 All right. Then I guess we have one person that's
20 here.

21 [REDACTED]: I just want to mention that there will be
22 a news release on the health assessment, so you'll know
23 when it's in the repository.

24 MS. PASTOR: There are plenty of health people here
25 that can answer your questions before you leave tonight

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and there are State people, and there are contractors and EPA people, so we'll stay around for a little bit. If you have any questions and you'd like to talk with us, if you owe us an address or phone number or something, we'll take that from you.

And if you didn't sign in, please do in the back of the room, and that will insure that you will get future updates.

And sorry about the wrong time in the fact sheet. And the next meeting we'll get that right.

Thanks for attending. And we'll be around for a while.

(Proceedings concluded at 8:58, p.m.)

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CERTIFICATE OF REPORTER

I, ELLEN E. WALFOORT, Certified Professional Reporter and Notary Public in and for the State of Wisconsin, do hereby certify that I transcribed the foregoing proceedings and that this transcript represents a true and correct transcription of the proceedings done by me or under my direction and supervision to the best of my knowledge and ability.

Dated this 23rd of July, 1990, at Milwaukee, Wisconsin.

My commission expires February 13, 1994.

Ellen E. Walfoort

Ellen E. Walfoort