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13	St. Louis North County Feasibility Study/Proposed Plan Meeting
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15	Hazelwood Civic Center Hazelwood, Missouri
16	nazerwood, niisboarr
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20	7:00 P.M 9:00 P.M.
21	May 29, 2003
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1	FACILITATOR CHARLOTTE O'NEIL: Good
2	evening and welcome to the North County
3	Feasibility Study/Proposed Plan public meeting.
4	We're glad to have you here.
5	Before we start, I want to point out the
6	emergency exits. We have two here on the left, my
7	left, your right, two here on my right, your left.
8	Please note that the two on this side of the
9	building are wired and alarmed. So unless it's a
10	real emergency you don't want to use these exits.
11	But please do if there's a crisis.
12	Also we would appreciate it if you would
13	turn off your cell phones and pagers so that we
14	can proceed undisturbed by that for the next hour
15	or so.
16	The first thing on our agenda, I'd like
17	to introduce to you the St. Louis FUSRAP Program
18	Manager who has been responsible for this project,
19	Sharon Cotner.
20	MS. COTNER: Hi. Good evening tonight.
21	Can everybody hear me okay? I'm going to get real
22	close to this so you can hear.
23	My name is Sharon Cotner. I work for
24	the St. Louis District Corps of Engineers and I'm
25	the program manager. Thank you for coming this

1

evening and we're going to get started in just a

```
2
         moment. But before we do, I would like to
         introduce a couple of folks that are at the
         meeting tonight. First off, if you'll raise your
 5
         hand or stand up that would be great.
                   This is Mr. Bruce Smith. Bruce is the
 6
         Assistant for Interagency International Affairs
         with the Secretary of the Army for Civil Works
 9
         Office. He's here from Washington.
10
                             (applause)
                   MS. COTNER: You might want to hold that
11
         for a minute. We don't have that much time.
12
13
                   The next person I'd like to introduce is
14
         Ms. Sharon Wagner. Sharon is the FUSRAP Program
15
         Manager from Headquarters Corps of Engineers in
16
         Washington.
17
                   Ms. TommiAnn McDaniel. TommiAnn is our
         team leader. She's also from Headquarters Corps
18
19
         of Engineers in Washington. Those are the Corps
20
         of Engineers folks except for the last one.
                   Mr. Dan Wall is here. Dan is the
21
         Project Manager from U.S. -- I'm going to try not
22
23
         to use acronyms tonight, this is going to be tough
         for me -- the Environmental Protection Agency
24
         Region 7 out of Kansas City.
25
```

1	We also have Art Kleinrath. Art is
2	here, he's the Department of Energy's manager for
3	long-term stewardship. He's here from the Grand
4	Junction, Colorado office. He's here because
5	ultimately the long-term stewardship
6	responsibilities will be turned over from the
7	Corps of Engineers to the Department of Energy for
8	these sites.
9	The next individual I'd like to
10	introduce is Mr. Fred Johnson. Fred is here from
11	Congressman Clay's office. These projects were
12	recently transferred to Congressman Clay's
13	district.
14	And the final person I'd like to
15	introduce, last but definitely not least, is
16	Colonel Kevin Williams. Colonel Williams is the
17	District Commander for the St. Louis District Army
18	Corps of Engineers. And Kevin Colonel
19	Williams, would you like to say a couple of
20	welcoming remarks?
21	(applause)
22	COLONEL WILLIAMS: Thank you all very
23	much. We're really impressed with the turnout and
24	the involvement that you obviously have shown by
25	being here tonight. I know it's not easy

1	sometimes on a night during the week with all the
2	activities and everything else that's going on.
3	But this is clearly a very important next step in
4	this process of getting these sites cleaned up.
5	And the public involvement comment
6	period and your comments back to us on how we plan
7	to go about this is vital to us all getting to a
8	solution to this problem. So again thank you all
9	for being here. It really is meaningful to all of
10	us that you're here and will be providing us with
11	comments either on the mike or in writing or both.
12	But we really look forward to your input as we
13	take this next step in this process down the road
14	to ultimate cleanup. So thank you all very much
15	for being here tonight.
16	(applause)
17	MS. COTNER: I'm now going to turn the
18	microphone over to Charlotte O'Neil. Charlotte is
19	our facilitator for this evening. She's going to
20	briefly go over some ground rules and kind of give
21	you the layout of how things are going to be going
22	on this evening.
23	We also have Mr. Jim Werner here. Jim
24	is with the Missouri Department of Natural
25	Resources.

1	(applause)
2	FACILITATOR O'NEIL: Okay, rules, rules
3	of the road. The focus of this meeting, the
4	subject matter that we're talking about, is the
5	St. Louis North County Site. So we would
6	appreciate it if you would limit your comments to
7	that. We know there are other sites in this area
8	that you are concerned about. And if you want
9	more information, the Missouri Department of
10	Natural Resources table has a handout with points
11	of contact for you on those issues. But please do
12	limit your comments tonight to the task at hand.
13	We'll begin with Sharon, our FUSRAP
14	Program Manager, providing a presentation on the
15	feasibility study and the proposed plan. There
16	were copies of the presentation available on the
17	sign-in desk. If you didn't get one on your way
18	in and you would like one, please grab one after
19	the meeting. There were plenty for everyone.
20	We're going to be certain we're
21	committed to making time for everyone to have an
22	opportunity to speak. If you did not sign up to
23	speak it doesn't matter, we'll get to you. If you
24	think of something that, you know, two-thirds
25	through the meeting that you just want to say.

1

25

once everyone who did preregister to speak has had

```
2
         their turn, we will call anyone else up after that
         who wishes to speak. So don't worry.
                   Only oral comments are being taken.
 5
         We're not taking questions. This is a hearing
 6
         format. We're taking your input. It's being
         recorded verbatim.
                   If you have questions that you want
 9
         answered, if you want them answered tonight we
10
         have technical folks in the back of the room who
         are happy to step outside and answer any questions
11
12
         they can for you. Or if you want to wait until
13
         after the meeting, we'll have folks here then as
14
         well.
15
                   If you issue a question in this room, it
16
         will become part of the verbatim transcript and it
17
         will be addressed in the responsiveness summary.
         So you'll get an answer that way in writing or
18
19
         personally right here on site.
20
                   We're also accepting written comments
21
         and questions. If you brought any or if you want
         to jot something down and don't want to speak,
22
23
         leave them with the girls at the sign-in table.
                   And I told you about the verbatim
24
```

record. The verbatim record will be posted on the

1

25

```
FUSRAP website probably within 2 or 3 weeks and
         you can download it then. If you have problems
 2
         with that, just call the FUSRAP office. They'll
 4
         be glad to get you a copy.
                   Okay. With that, we'll go back to
 5
         Sharon for her presentation.
                   MS. COTNER:
                                 What I'm going to do is
         I'm going to give a brief 20-minute slide
 9
         presentation. What I'm actually going to cover
10
         are what I would call the highlights of the
         Feasibility Study/Proposed Plan for those of you
11
12
         who didn't make it through those very voluminous
13
         documents.
14
                   These are the general topics that I'm
         going to cover; the purpose of this meeting if you
15
         will, a very brief history of the site, what our
16
17
         objectives were for the Feasibility Study/Proposed
18
         Plan, a summary of the alternatives, a more
19
         detailed discussion of the preferred alternative,
20
         some important dates you might want to jot down or
21
         make sure you remember, and a little bit of input
22
         as far as what's going to happen to your comments,
23
         both the written and the oral comments, and how
         you can contact us for additional information.
24
```

The purpose of this hearing is to allow

```
the Corps to receive comments from the public on
 1
         the Feasibility Study and the Proposed Plan. And
 2
         specifically what we're after are your supporting
         comments, any reservations you would have, and any
 5
         other issues that you would like us to address or
         consider.
                   The Corps is required to use 9 criteria
         in selecting the final remedy for this site. And
 9
         these are spelled out in planning guides. And one
10
         of those 9 criteria is community acceptance. And
         that's why we're here tonight. We need to get
11
12
         your input as to what you believe should be the
13
         preferred alternative and what your concerns are.
14
                   So what happened and how did it get to
         this point. First off, we're here because of a
15
         federal program. We've thrown the word FUSRAP
16
17
         around quite a bit so far and there's a good
         reason for it, and that's because it stands for
18
19
         the Formerly Utilized Sites Remedial Action
20
         Program, which is quite a mouthful.
21
                   FUSRAP addresses contamination resulting
         from activities at the Manhattan Engineer District
22
23
         and the Atomic Energy Commission in support of the
24
         nation's early atomic weapons program. In this
```

case we are particularly concerned about those

1	activities that occurred in North County.
2	The types of activities we're talking
3	about are storage of processing residues,
4	migration by wind and water, transportation
5	between the sites in uncovered trucks.
6	As part of this program in the past, and
7	it will continue in the future, we accomplished
8	extensive coordination with the Environmental
9	Protection Agency and the Missouri Department of
10	Natural Resources.
11	Specifically in the case of these sites,
12	the story begins with the Mallinckrodt Chemical
13	Plant in North St. Louis City. And just to give
14	you your bearings on this, this right here is the
15	McKinley Bridge area. This is Highway 70. And
16	the Mississippi River is over here.
17	In 1939 Einstein wrote President
18	Roosevelt that he believed a bomb could be
19	constructed to set off a nuclear chain reaction.
20	In 1941 the United States declared war on Germany
21	and Japan. And in 1942, one year later, an atomic
22	physicist at Washington University contacted
23	Edward Mallinckrodt of Mallinckrodt Chemical to
24	ask him if his company could refine uranium ore
25	or uranium from ore using an ether extraction

```
process. Mallinckrodt agreed, and the processing
 1
         continued from 1945 until 1957 at the Mallinckrodt
 2
         facility.
                   Within a year, Mallinckrodt ran out of
         space to store the residues or the left over
 5
 6
         material at the Mallinckrodt plant. At that point
         in time, the Manhattan Engineer District in 1946
         purchased 21.7 acres in North St. Louis County
 9
         adjacent to Lambert International Airport to store
10
         these residues. The airport area is right over
11
         here.
                   Most of these residues were contaminated
12
13
         with uranium, thorium and radium. And they were
14
         stored in bulk on open ground at that site. There
         are some photos at the historical table in the
15
         back that will give you a feel for what that
16
17
         looked like.
                   In 1966 and 1967 most of the stored
18
19
         residues were sold to a private company for
         materials recovered. The residues were moved from
20
21
         the Airport Site to the Latty Avenue site.
22
         On-site structures at the airport facility were
23
         razed, buried on the property, and covered with
         clean soil.
24
```

And although this covering reduced the

1	surface dose rate to an acceptable level at the
2	time, buried deposits of uranium, radium and
3	thorium remained on the property. In the last 5
4	years the Corps has removed some of this material
5	under an interim action. However, material still
6	remains to be addressed. And that material is the
7	first part of what is being addressed in this
8	Feasibility Study/Proposed Plan.
9	As I stated earlier, the Airport Site
10	residues were purchased and moved to a storage
11	site on Latty Avenue. And this is Latty Avenue
12	is running this way right up here. And Highway
13	170 is over here. So this is actually an area
14	west of Highway 170 for those of you familiar with
15	the area.
16	At the Latty site the material was dried
17	and subsequently shipped out of state to a mill in
18	Colorado. The property was sold, and the new
19	owner, in preparing for the property for use,
20	demolished one building, excavated portions of the
21	property and paved areas. The excavated material
22	was piled on the eastern part of this property.
23	In 1984 and 1985 the Department of
24	Energy added additional material to this site.
25	The material came up from cleanup action that

```
occurred along Latty Avenue in support of road and
         utility improvements in the area.
 2
                   At this point, those large piles became
         known as the Hazelwood Interim Storage Site. And
 5
         that's where the name HISS comes from out here,
         HISS, Hazelwood Interim Storage Site.
                   In the last 3 years, these large
         surfaces piles, which originally were located
 9
         here, and you'll see them in some of the photos as
10
         being covered with a green -- what appears to be a
         green fabric, in the last 3 years these large
11
12
         surface piles were removed and shipped off site by
13
         the Corps of Engineers as an interim action.
14
         However, once again, subsurface soils remain to be
15
         addressed. And that's the second component that's
         addressed in the Feasibility Study/Proposed Plan.
16
17
                   So that's two of the three components.
         The third component is the Vicinity Properties.
18
19
         Now when the material was transported from the
20
         Airport Site to the Latty Avenue site, it was
21
         moved in uncovered trucks along roadways. We find
         it amusing. They found it standard practice.
22
23
         Material fell off of these trucks and into the
         roads and ditches along the road, contaminating
24
25
         several of the private properties located along
```

these transportation routes.

1

25

```
In addition to the spillage from the
 2
         trucks, material migrated via wind and water from
         the Airport Site and Latty site onto adjacent
         properties and into Coldwater Creek. And these
 5
         properties are identified in this map. This right
         there, that little funny looking wedge, is
         actually the Airport Site that you saw a photo of
 9
         a moment earlier. This is Coldwater Creek, this
10
         little line there. And this area right here,
         there's Latty Avenue, and these are the Latty
11
12
         Avenue Properties.
13
                   And that is the third component that's
14
         being addressed by this Feasibility Study/Proposed
15
         Plan.
                   This slide presents a schematic
16
17
         breakdown if will you of the North St. Louis
         County site. There are three sites circled. And
18
19
         the circles indicate that those sites were placed
20
         on the Environmental Protection Agency's National
21
         Priority List. And because these three sites are
         on the National Priority List, the Corps has been
22
23
         working very closely with the Environmental
         Protection Agency and the State of Missouri to
24
```

develop a Feasibility Study and Proposed Plan.

1	So what's in this Feasibility Study and
2	Proposed Plan? Well, there are four primary
3	objectives of the Feasibility Study and Proposed
4	Plan and they are as follows:
5	The protection, first and foremost the
6	protection of human health and the environment.
7	Secondly, outlining a proposed approach for
8	cleanup. Third, evaluating the various
9	alternatives that have been identified. And
10	fourth, minimizing adverse impact to the areas'
11	businesses.
12	Now I'd like to briefly run through the
13	six alternatives that are presented in those
14	documents.
15	The first alternative is a no action
16	alternative. This is a legal requirement that we
17	have to include in the document. And essentially
18	it is no action. None of the material would be
19	removed or disturbed. What you're really talking
20	about here is leaving everything as is and
21	instituting periodic environmental monitoring to
22	make sure that the material stays where it is.
23	The cost for this is 1.5 million dollars.
24	The second alternative is partial
25	excavation and capping at the Airport Site and at

1

the Latty Avenue HISS site. Again, a cap is

```
essentially placing an engineered cover over the
 2
         soil. What we're talking about with this
         alternative is excavating soils from the Vicinity
 5
         Properties and disposing of them at an out of
 6
         state licensed facility. The soils located at the
         Airport Site and the HISS Latty site would be
         capped. And institutional controls, such as
         fencing and deed restrictions and zoning, would be
10
         used to make sure that access was limited to those
         contaminated areas. The cost for this plan is 205
11
         million dollars.
12
13
                   The third alternative is partial
14
         excavation and treatment. And treatment
15
         essentially is referring to soil sorting and soil
         washing. They're very limited technological tools
16
17
         that can be used to treat the rad (radioactively)
         contaminated material. Soil sorting is
18
19
         essentially separating the soil based on the
20
         amount of radioactive contamination. And soil
21
         washing is essentially washing the soil with
         liquid so that you remove the soluble
22
23
         contamination.
                   What we're talking about in alternative
24
         3 is excavating the impacted soils from the
25
```

1

Vicinity Properties and the HISS Latty property,

```
consolidating them, and treating them at the
 2
         Airport Site. Then we would use institutional
         controls to limit access to the contaminated areas
         of the Airport Site. The cost for this
 5
         alternative is 284 million dollars.
                   The fourth alternative is exclusively
         institutional controls. Institutional controls,
         such as I mentioned a minute ago, are deed
10
         restrictions, land use restrictions and zoning
         restrictions. And what their purpose is is to
11
12
         limit the future land use at those areas. These
13
         institutional controls would be applied at the
14
         Airport Site, the HISS Latty site, and for all of
15
         the Vicinity Properties. And the cost estimate
         for that is approximately 129 million dollars.
16
17
                   The fifth alternative is the preferred
18
         plan. So I'm not going to go into as much detail
19
         on that right now. But essentially what it is is
20
         excavation of impacted soils from the Airport
21
         Site, the HISS Latty site and the Vicinity
         Properties, and shipment off-site with
22
23
         institutional controls on areas that are difficult
24
         to access beneath roads, bridges, railroads and
25
         other permanent structures where contamination is
```

1

25

known to exist. The cost for that is 223 million.

```
And again in a minute I'll address that in more
 2
         detail.
                   The sixth alternative is excavation at
 5
         all properties. It's very similar to alternative
 6
         five except that institutional controls would not
         be applied and material underneath roads,
         railroads, bridges and permanent structures would
 9
         be removed.
10
                   I'd like to point out that although this
         includes excavating under the roads, railroads,
11
12
         bridges and permanent structures, it assumes that
13
         the local municipality or land owner makes the
14
         soil available as a result of road improvements,
15
         building demolition or other types of activity and
16
         this may not occur until sometime in the future.
17
         The cost of 286 million only includes the cost for
         the Corps to go in, pick up the soil and dispose
18
19
         of that soil off site.
20
                   Now what I'll do is go into a little bit
21
         more detail with regard to alternative number 5.
         Alternative number 5 is the Corps's preferred
22
23
         plan. And what it consists of is excavating
         accessible radium, thorium, uranium contaminated
24
```

soil to meet the following criteria:

1	Surface soils and surface soils are
2	the first 6 inches of soil just so everyone kind
3	of knows what the definitions are here surface
4	soils and sediments would be remediated to a
5	criteria of 5 picocuries per gram for radium, 14
6	picocuries per gram for thorium, and 50 picocuries
7	per gram for uranium.
8	And just so everyone understands, a
9	picocurie is the unit of measure that we apply to
10	measure radioactivity in soils and sediment. And
11	to give you an idea, a picocurie is 1 times 10 to
12	the minus 12th curie, which is a decimal point and
13	11 zeros and a 1. Now that's kind of hard for
14	most of us to fathom. So here's a visualization;
15	imagine 6 Busch stadiums stacked one up on top of
16	the other, 6 of them. Fill Busch stadium with
17	white one-inch ping pong balls all the way up.
18	And place 1 blue one in there. And that's one
19	picocurie. That's the amount of measurement we're
20	talking about in this case.
21	For subsurface soils and sediments the
22	criteria would be implemented of 15 picocuries per
23	gram of radium, 15 picocuries per gram of thorium,
24	and 50 picocuries per gram of uranium.

Coldwater Creek sediment below the mean

1

water gradient -- and again, mean water gradient

```
is a fancy way of saying the average water level
 2
         in the creek -- those sediments would be
         remediated to criteria 15 picocuries per gram for
 5
         radium, 43 picocuries per gram for thorium, and
         150 picocuries per gram for uranium.
                   These cleanup criteria are based on
         different exposure scenarios in ensuring that the
 9
         cleanup is protective when completed. So, for
10
         example, on Coldwater Creek we went through a
         modeling analysis to make sure that a child
11
12
         playing in the creek would not be harmed by any
13
         material left behind. Or another example would be
14
         that if you plant a garden in your back yard and
15
         you grow tomatoes and you eat those tomatoes, you
         will not be harmed. Those kinds of scenarios are
16
17
         what are examined as a part of this analysis.
                   When the excavations are complete, the
18
         Corps would go back and sample the areas to ensure
19
20
         that the criteria have been met and to document
21
         the protectiveness of the site.
                   Inaccessible soils -- and by that we
22
23
         mean soils that are currently under cover, such as
24
         roads, bridges, railroads and structures -- would
25
         be addressed under this alternative with
```

1	institutional controls. Institutional controls
2	would be put into place to ensure that these areas
3	remain covered and continue to be used for their
4	current purposes. For example, areas currently
5	used for roads would continue to be used for roads
6	in the future. These controls would be documented
7	in a long-term stewardship plan which would be
8	coordinated with the local, state and federal
9	government entities involved, as well as the
10	stakeholders.
11	The protected groundwater aquifer is not
12	impacted by FUSRAP contaminants. However,
13	groundwater monitoring is included in this
14	alternative to assess the effectiveness of the
15	remedial action and to ensure that the excavation
16	itself does not create any problems.
17	Regarding structures, criteria is being
18	developed based upon an equivalent dose from the 5
19	picocurie per gram standard which is used for the
20	radium in the soil.
21	All above-criteria soil and sediments
22	would be sent out of state to a properly permitted
23	disposal facility.
24	Finally, extensive personnel monitoring
25	and site monitoring would be conducted during the

excavation to ensure that no contamination moves

1

25

```
off of the site.
 2
                   So that's what we have as our preferred
         alternative. And the question you may be asking
 5
         yourself is why. When the Corps of Engineers
         examined all of the alternatives that were on the
         table, our analysis indicated that alternative 5
         actually best balances cost, permanence, which is
 9
         another way of saying the degree of certainty that
10
         the plan will be successful, and the long-term
         effectiveness.
11
                   Alternative 5 is protective of human
12
13
         health and the environment. It's highly
14
         implementable from a technical and from an
15
         administrative standpoint. It's doable. It
16
         minimizes economic impact to businesses, utilities
17
         and communities. And it does not include on-site
         disposal which was previously rejected by the
18
19
         public.
20
                   Here are some important dates. First
21
         off, I'd like to point out that the public review
22
         period had originally been scheduled to conclude
23
         tomorrow, May 30th. We had a request from a
         public entity that we include a 45-day extension.
24
```

And we are going to go ahead and follow up with

1

25

that. So the comments will not be due until the

```
14th of July now. So the concluding date, if you
 2
 3
         have a newsletter you'll note on the back there's
         a sticker on there that indicates that the public
 5
         review comment period has been extended until July
         14th.
                   However, this public meeting will be the
         final opportunity for furnishing oral comments
 9
         officially. No additional hearings are scheduled
10
         before the 14th of July. However, written
         comments may still be submitted. And we'll talk
11
12
         in a moment about where you can send those to.
13
         The comments will be considered, and in
14
         conjunction with the United States Environmental
         Protection Agency, a Record of Decision which will
15
         identify the selected plan will be issued in early
16
         2004.
17
                   So what happens to your comments if you
18
19
         send us a letter, send us an e-mail or make an
20
         oral comment tonight. Well, we'll respond to each
21
         comment as we write the Record of Decision. And
22
         the way in which each comment is addressed will be
23
         recorded in a document entitled a responsiveness
24
         summary. Now the responsiveness summary is going
```

to be an attachment to the Record of Decision.

1

25

And these documents will be available to the

```
public in early 2004.
 2
                   They will be available in a number of
         different ways. You can get the documents or any
 5
         other information regarding FUSRAP from these
 6
         sources; you can consult the web and this is the
         St. Louis District website. This will take --
         this specific address will take you right into the
 9
         FUSRAP page. You can e-mail our public affairs
10
         officer, Jacque Mattingly, who is here at the
         table up here. You can visit or write us at the
11
12
         Latty Avenue office and this is our address. You
13
         can also visit the public library. This is the
14
         address for the city library. Our documents do go
15
         there. But they also go to several county
         libraries. And we have a list of which of those
16
17
         libraries they go to also. So if you would prefer
         to visit the county library you can do so and pick
18
19
         up the documents. Or you can call one of these
20
         phone numbers here and those are direct lines into
21
         the office.
22
                   Your thoughts are very important to us.
23
         So I encourage anyone, if you have any
         reservations or just questions, to send them in.
24
```

We would very much like to hear what you have to

1

24

25

```
say. And use any of those methods that I
 2
         previously identified. They will all work. We
         will get back to you.
                   And having said that, I think I'll turn
 5
         it back over to Charlotte and Charlotte is going
         to start the oral comment period.
                   FACILITATOR O'NEIL: I've been provided
         a list of everyone who signed up expressing a
 9
         desire to speak. I'll call you one at a time, and
10
         when I call you if you would come around and down
         this side to the microphone. Be sure you can be
11
        heard. Introduce yourself. Make your comments
12
13
         and then go on back to your seat around that way.
14
         Does anyone have any questions?
15
                   WOMAN IN AUDIENCE: Yes. Will we be
         hearing from any other groups tonight
16
17
         informationally like MDNR or EPA or are they
         scheduled to speak or is this just open to the
18
19
         citizens right now?
                   FACILITATOR O'NEIL: It's open to
20
21
         anyone.
22
                   MR. WERNER: We came prepared with our
23
         analysis.
```

WOMAN IN AUDIENCE: Well, I had a

question and I don't know that it would be

1

pertinent if I heard from them. I just wondered

```
if it would be more useful to hear from whoever
 2
         has anything to say from our agencies so that we
         could then maybe make more sense, make more
 5
         intelligent comments.
                   FACILITATOR O'NEIL: That makes sense.
         Is that all right with you? Jim Werner from the
         Missouri Department of Natural Resources.
 9
                   MR. WERNER: Thank you very much. I
10
         think we heard a very good presentation, an
         overview of the plan.
11
                   The Department of Natural Resources has
12
13
         a special role, as many of you know, as an
14
         independent technical reviewer of the plan here.
15
         And I just want to outline that. Then I want to
         talk a little bit about what I think we've
16
17
         accomplished all together and then go into the
18
         comments.
19
                   The Department of Natural Resources as a
20
         state regulator has been involved in this site
21
         since the beginning. And as many of you know,
         because it's a federally -- it's a federal cleanup
22
23
         responsibility, that is, the Army Corps of
         Engineers is dealing with what is a Department of
24
25
         Energy waste product, the EPA doesn't have the
```

1

normal regulatory role because of something called

```
2
         the unitary executive theory where one federal
         agency is not allowed to regulate another federal
         agency in a normal manner.
 5
                   So that means the state government takes
         on I think an added burden, an added
         responsibility here, and we have been doing that
         for nearly 20 years now. My role in this has gone
 9
         back I think 15 years.
10
                   Sharon I think aptly provided you a time
         line. I'm not sure if people appreciated the time
11
12
         line and how important tonight is as part of that
13
         time line. Again, 1942 the first uranium was
14
         extracted here in St. Louis that went to the
15
         Enrico Fermi reactor in Chicago. In 1986 the
         FUSRAP program begins. In 1994 the critical
16
         decision is made to not entomb the waste but
17
         rather to clean up the waste. In 1997 the
18
19
         decision is made to turn the program over from the
20
         Department of Energy to the Corps of Engineers.
21
         And now here we are tonight in 2003.
                   So I think it's an extraordinarily
22
23
         important historic landmark that you should keep
         in mind as we go down this road. I guess one of
24
25
         the first comments in terms of process I might
```

offer is rather than have this be really the last 1 opportunity for a public involvement process, that 2 assuming that the cleanup plan goes forward and is funded and all, and then things go and the cleanup 5 occurs, that we don't just step off into infinity 6 forever and this is the last time the public has an opportunity to speak on it. But rather that we circle around when the cleanup is done and that we 9 review the cleanup that's been accomplished, and 10 then have an opportunity for public comments before the hand-off is made between the Corps of 11 12 Engineers to the Department of Energy. 13 There are an enormous number of 14 questions to be answered once we assess what the 15 results of the cleanup are and then how are we 16 going to handle it here on in. Because as you 17 appreciate, this is not only a public health question, but really a community development 18 question. How will the community be able to live 19 20 with whatever residual radioactivity exists under 21 the roadways or whatever is left. I think the 22 community is going to continue to need input on 23 how that is done. It's just extraordinary just

from my perspective having been involved in this

for guite some time. So that would be the first

24

comment in terms of process.

1

25

```
2
                   Let me, before I get into the comment,
 3
         also let you know, Colonel, you've been here, we
 4
         met when you first arrived at the district. This
 5
         is a district that will do you proud. This is a
 6
         site that some of you have been involved in that
         languished for quite some time. Nothing happened
         for too long. And there's a lot of impatience and
 9
         people have been more than patient about the
10
         movement of the soil.
                   The Corps got involved, and the Corps
11
12
         knows how to move dirt. And the Corps has done
13
         that. And resulted in a lot of action that didn't
14
         occur before. So from my experience having been
15
         involved for 15 years, I can look at the patterns,
         and the Corps has really accomplished a great deal
16
17
         up 'til now. And I think that's something for the
         Corps to be proud of. However, we're now faced
18
19
         with this decision dealing with the cleanup
20
         criteria.
21
                   I'd also from an historical perspective,
22
         Dan, I remember being in meetings with you where 5
23
         and 15 was just another item on the list here.
         Here we are in 2003 where 5 and 15 is what's
24
```

before us. 5 and 15 is not complete background

```
greenfield cleanup, but it is the best cleanup
 1
 2
         that has been -- it's the best standard that has
         been involved at that time. So the fact that
         we're here now is also a credit to this process.
 5
         Not to get involved in that too much, but I know
 6
         you guys worked very hard on that and it's a
         credit to you.
 8
                   Finally, I want to give a lot of credit
         to the citizens here. Colonel, you talked briefly
 9
10
         about the important role of citizen input. But
         this has been a poster child for citizen input.
11
12
         Sally Price. Kay Drey. Sally mentioned that her
13
         son was 2 years old when she started this process
14
         and he just graduated from high school. I hate to
15
         think of how much hair I used to have when I
         started this process. But these folks have been
16
17
         at it a long time. They've been involved.
         They're not getting paid for this. So I think
18
19
         that an enormous amount of credit goes to them.
20
                   Having said that, giving a lot of credit
21
         where credit is due, we are here tonight to
         consider not only the decision about cleanup
22
23
         criteria and the options that Sharon may have, but
24
         trying to address you know, how do you deal with
         implementation, how do you deal with the number of
25
```

1

25

questions left. There's a number of issues and

```
2
         I'm not going to go into them in detail. I'll
         just try to tick off some of the issues we still
         need to deal with.
 5
                   I guess first in terms of the overall
 6
         format, I guess the plan that many people have in
         a sense is only half a plan, because the plan is
         dependent on the subsequent long-term stewardship.
 9
         And the long-term stewardship hasn't been dealt
10
         with. It's like the third leg of the stool. And
         the long-term success of the plan is going to be
11
12
         dependent on the long-term effectiveness of the
13
         stewardship plan.
14
                   And I know that you said the current
15
         understanding is that the Department of Energy
         will take that over. But clearly, for anybody
16
17
         who's been following it, there's a lot of
         uncertainty about the Department of Energy
18
19
         activity in that area. There's been several
20
         reorganizations that have gone on. There's no
21
         longer a long-term stewardship office as of the
22
         next fiscal year in the Environmental Management
23
         Program. It's now subsumed within a new office.
24
         I don't know what the funding or responsibility
```

is. There are a whole lot of questions about how

```
that will work. Again that's why I think we need
 1
         to cycle back on that.
 2
                   So as much work that has gone on into
         this, it's directly dependent on the long-term
 5
         stewardship plan and we'll need to see some more
         work done on that.
                   But, remember, that this is a unique
         circumstance that the Department of Energy has not
 9
         dealt with very often. This is generally not
10
         federal property we're talking about. This is
         private property for the most part. Whereas a lot
11
12
         of the Department of Energy facilities is
13
         government owned, contracted out facilities. And
14
         there's a whole world of difference in terms of
15
         how you manage it and the assumptions you make in
         terms of long-term stewardship.
16
17
                   Even down to the standards, 5, 15
         picocuries, all those standards, a lot of them
18
19
         were developed where you had government-owned
20
         property, not privately owned property. And I
21
         think that needs to be considered. And I know you
         guys may know that, but there's got to be some
22
23
         internal process on the implications of that,
         particularly inviting the land owners and the
24
```

community development as they consider future use.

1	WOMAN IN AUDIENCE: Could you be a
2	little louder for us old people?
3	MR. WERNER: Sure. Sort of just to
4	summarize what could really be the topic of
5	another meeting, and I suggest that it should
6	be in the future the whole long-term
7	stewardship issue. The sort of language that I
8	think might be very useful to the community here
9	could really be cribbed from what the Corps has
LO	done at downtown sites to address long-term
L1	stewardship. And I think that provides a good
12	point of departure that you've worked with
L3	Mallinckrodt on that sort of language for
L 4	long-term stewardship.
L5	The soil and the groundwater of course
L 6	offer very special and different circumstances.
L7	We're talking generally here of 5/15 in the soil,
L8	5 picocuries per gram for the top 6 inches, 15
L 9	picocuries per gram for 6 inches and below. So
20	obviously it's not a walk-away standard if you
21	only meet 5 and 15 because anything below 6 inches
22	has to be you have to deal with that with a
23	different land use obviously. That's just
24	implicit in the way the standard is designed.
25	However, it doesn't necessarily mean

1

that every 5 and 15 cleanup will require long-term

```
2
         stewardship. Our sense is that it's possible to
         implement this in a way that will result in an
         unrestricted use cleanup. That's why it's
 5
         important that the long-term stewardship post
 6
         remediation risk assessment be done carefully,
         really an integral part of the cleanup, not to
         particularly stand alone. And I think that many
 9
         of the aspects incorporate that in the current
10
         plan.
                   Finally, the groundwater question.
11
12
         Right now the plan appears in some cases to
13
         suggest that the groundwater will not be monitored
14
         for long term. We believe that it's prudent to
15
         assume monitoring unless you can demonstrate on
         line that it's not required. I think it's
16
17
         possible to do that. But right now I don't think
18
         we can assume that the groundwater monitoring will
19
         not be required. That's to be seen.
20
                   Finally, the roads, the assumption in
21
         the plan is that the roads are permanently
         inaccessible. That's not necessarily a reasonable
22
23
         plan because of road repairs and changes. And you
         can look down the road here about 100 yards and
24
25
         see changes in roads going on all around us.
```

```
Again, it goes back to how we deal with the
         institutional controls for long-term stewardship
 2
         if it's not fully integrated in that or there's
         funding for it. Who is going to pay for when a
 5
         roadway changes in the future and how is that
 6
         going to be incorporated. That's not something
         that the Department of Energy has generally dealt
         with with many of the sites they've done in the
 9
         past where you have these very remote uranium
10
         sites largely in the western United States for the
         most part.
11
12
                   Finally, buildings contamination. There
13
         are some concerns about we know at least some
14
         buildings have identified the contamination. Most
         of the plan deals with just soil. So I think we
15
16
         need some more attention to what process will be
17
         used for dealing with contaminated buildings. For
18
         example, when you replace a roof on a building and
19
         find out all your roofing shingles are
20
         contaminated with uranium. How do you deal with
21
         it, how do you monitor it. That has to be part of
22
         the plan and the long-term stewardship.
23
                   And finally, as to the cleanup,
24
         Missouri, as many states do, has policies no rad
25
         added in landfills or for backfill for
```

1	landscaping. And already in the United States
2	we've paid hundreds of millions of dollars for
3	cleaning up sites where people move radioactivity
4	from one site for a cleanup and then it got used
5	for landscaping in other areas and then the
6	landscaped areas had to be cleaned up again and
7	spend more money and more time dealing with that.
8	Downtown Grand Junction actually is a
9	beautiful downtown because of all the additional
10	landscaping that was done to put in nice
11	pedestrian ways because of the contaminated soil
12	that was found in the area. It's not something I
13	think the community wants to go through here.
14	It's a low criteria contaminated soil that we can
15	dispose of in an appropriate way and not use it as
16	backfill or in a landfill.
17	The Corps has addressed doing an
18	ecological risk assessment for Coldwater Creek.
19	We believe that a more rigorous job technically
20	needs to be done with regard to risk assessment
21	and focus on the special concerns regarding
22	Coldwater Creek.
23	Finally, the Corps has appended what's
24	known technically as an applicable or relevant and
25	appropriate requirements and feasibility study.

1 And it's not clear that we agree with their

2	analysis there. That's something we'll be
3	commenting on in the future.
4	I appreciate the opportunity to comment
5	and applaud you for the hard work and the long
6	distance you traveled. Wish you Godspeed and
7	we'll be with you for the rest of the journey
8	because it's still a ways to go as we all address
9	this. And particularly applaud the citizens who
10	have been with it for this long. And we'll keep
11	doing our job since you guys have been with us for
12	this long. Thank you.
13	(applause)
14	FACILITATOR O'NEIL: Okay. The first
15	speaker I have is Sandy Delcoure. Please forgive
16	me if I pronounce your name wrong. I'm good at
17	Irish names only.
18	MS. DELCOURE: Good evening. Can
19	everybody hear? My name is Sandy Delcoure and I
20	live on Coldwater Creek. There's tremendous
21	increasing development along the creek that will
22	add to future flooding along the creek. Dust from
23	radioactive creek sediment deposited along the
24	creek's banks from the rise and fall of the water
25	can become airborne, give off radon gas and be

1	inhaled. This is why it is important that
2	Coldwater Creek be given attention and be cleaned
3	up where it's contaminated.
4	Coldwater Creek is an urban stream with
5	homes, schools, churches, businesses and parks all
6	along its banks. Children play along the creek's
7	banks right up to the edge of the water. It would
8	be very much appreciated if Coldwater Creek were
9	checked and made safe for the community. And from
10	what I've heard, it sounds like you are really
11	doing a good job and trying to do that. Thank you
12	very much.
13	(applause)
14	FACILITATOR O'NEIL: Alf Stole.
15	MR. STOLE: Evening. My name is Alf
16	Stole and I'm a citizen of Bridgeton.
17	It is good to see that the Corps of
18	Engineers has taken an active and leading role in
19	removing the waste from the various sites in the
20	North County. When we saw the picture a while ago
21	we heard that the waste originated in St. Louis.
22	It was moved to a site next to the airport. From
23	there it was moved to Hazelwood to Latty Avenue.
24	And as I understand it, it was moved from that
25	place and some of it was moved to the Westlake

1 Landfill in Bridgeton where I live.

2	I was on the City Council in 1973 when
3	this took place. I also served as a mayor for
4	four years shortly thereafter. But I don't
5	understand why this was done. It doesn't seem
6	right to move this material so much around. And
7	now quite a bit, I understand as much as 170,000
8	tons of radioactive material is located in the
9	Westlake Landfill in Bridgeton. And this is also
10	in the Missouri River watershed. And some of it
11	could possibly move from this landfill and get
12	into the water in that Missouri River plain.
13	So what I'd like to see is that the
14	Corps of Engineers would take over the
15	responsibility and the lead to move on getting the
16	radioactive material out of our city, out of
17	Westlake Landfill.
18	And thank you very much, all of you, for
19	listening to me.
20	(applause)
21	FACILITATOR O'NEIL: Byron Clemens.
22	MR. CLEMENS: My name is Byron Clemens.
23	I live at 100 Arundel in St. Louis County. My zip
24	code is 63105.
25	I too applaud the action that's come

```
from the Corps of Engineers as opposed to the
 1
         Department of Energy that sat on these wastes for
 2
         so long and did little to nothing.
                   I'm a member of the Coalition for the
         Environment. I've been actively studying,
 5
 6
         testifying, suggesting, hoping, that all of the
         waste, all the U.S. government's waste, these are
         not our wastes, they belong to our government, be
 9
         moved from all of the St. Louis FUSRAP dumps since
10
         1979 is the first time I took any action on this.
                   A friend of mine who is a St. Louis city
11
12
         police officer came to me as an environmentalist
13
         and said they want to put a police driver training
14
         school on top of the Airport Site, is that a good
15
         idea. And I read the plan and looked at the site
         and came back to him and said no, I don't think
16
17
         that's a very good idea, as a matter of fact they
         should clean up the site. It's a ludicrous place
18
         to have a radioactive waste site. It's in contact
19
20
         with groundwater with Coldwater Creek. It's on a
21
         floodplain across from the Khoury League Baseball
         Field. Then when I looked at the plan, some of
22
23
         the highest radiation sites around there were
         outside of the site, in a ditch along McDonnell
24
25
         Boulevard, on the Khoury league field itself it
```

```
had some hot spots.
```

21

22

23

That was when I found out about the Latty Avenue site. At that time the site was unfenced and had no signs. I went to a hearing 5 with the Department of Energy, the NRC, the EPA 6 and DNR, they were all there. And people asked about the kids who were playing on top of the uranium mill tailings at the site, riding their 9 dirt bikes up and down. And no one would say they 10 would fence the site or put up signs. So I and two of my friends went out and put up signs at 11 this site. Soon they found the money to fence the 12 13 site and start monitoring. 14 There's uranium, thorium, radium and 15 radon at the site, all the daughter products. We all know the litany of the ballfields, Coldwater 16 17 Creek itself, the sediment which had 10 times background radiation in the sediment of Coldwater 18 19 Creek, the industrial sites. 20 I grew up along Coldwater Creek. My

I grew up along Coldwater Creek. My father worked for McDonnell Douglas which is now Boeing. The ventilation for his building came from off the site.

24 There's been a long history -- and one 25 of my concerns is voiced by the gentleman from DNR

```
is what happens after the site is cleaned up.
 1
         history up to this point about funding, switching
 2
         titles from the City of St. Louis, quit claim
         deeds, who owned the site at that time, what will
 5
         happen later on. And I don't think the history of
 6
         institutional accountability up until this point
         has been very credible.
                   I think the site for any remaining
 9
         wastes, it's still in a populated area. It's
10
         still in a 100 year floodplain. There's still
         bubbling springs on the site and near it. I think
11
         any possibility of future contamination of
12
13
         drinking water and children would say that
14
         alternative 6 is the best one to remove all the
15
         waste from the site, including the stuff from
         Westlake Landfill.
16
17
                   And I would like to see after the site
         is cleaned up that it's clear who has the
18
19
         responsibility and ownership, and that it have
20
         independent monitoring outside of -- you know, for
21
         example, I think the Corps of Engineers, if they
         could do oversight along with the DOE, if the DOE
22
23
         is taking over these sites again, I'd prefer that
         wasn't the possibility, but I'd really like to see
24
25
         plans for what future monitoring will be.
```

1	And this history has been somewhat
2	personal on some levels. I've gone to these
3	hearings, there was a man in this building who had
4	a colostomy bag. He said his family had a family
5	farm, had taken water from Coldwater Creek and had
6	a well, they used it for irrigating their farm but
7	they drank the water all the time. Both he and
8	his father had cancer.
9	At a hearing, I guess this was in '97 at
10	the Clayton Hotel, there was a young woman who sat
11	next to me who said her little boy was 6 years
12	old, had childhood leukemia. I think she lived on
13	Nyflot. I believe that's site 41 up on the map
14	there. She said there was a cluster of leukemia
15	with kids in grade schools in that area that was
16	all contaminated by the trucks that you talked
17	about that had no coverings as they went back and
18	forth.
19	I met some Mallinckrodt workers who
20	worked down at Broadway and Destrehan were all
21	exposed to this waste. So, you know, 60 years of
22	the St. Louis area putting up with this, it's time
23	to relieve us of this waste. And we do appreciate
24	that we're getting closer.
25	I looked at the plan today and page 10

```
of the Corps's proposed plan says: Coldwater
 2
         Creek is not significantly impacted. I don't
         agree with that. I think there's previous studies
         that show that it is impacted on and I think it
         needs a lot of remediation. I hope that would be
 5
 6
         part of the final plan. And the uranium itself we
         know is Belgian Congo pitchblende. That's a
         higher level of uranium 238. It wasn't refined
 9
         very well.
10
                   So I know there's still hot spots. I
         have faith that you guys are going to do a good
11
12
         job of trying to find those spots. But I think
13
         some of them could be in those institutional areas
14
         we're talking about, roads, bridges, the sediment
15
         of the creek. And I really hope before anyone
         walks away from responsibility that we really
16
17
         thoroughly document the area.
                   Page 12 of the plan admits its CERCLA
18
19
         risk range could be exceeded at many of the sites
         in the future. And I think that's a real issue.
20
21
         I think the only acceptable alternative other than
         removing these wastes to DOE's Headquarters in
22
23
         Washington is number six. And I would include the
         Westlake Landfill site which I believe was
24
         illegally dumped under an NRC license by B & K
25
```

1 Construction Company.

2	All the sites should be cleaned up to as
3	low as technologically feasible. Once again, I
4	have to say 60 years has been a long time for this
5	area to be exposed.
6	And I would like one more thing, looking
7	at that creek again, could we possibly look at the
8	same criteria of 5/15 picocuries in the sediment
9	of the creek for the entire length of the creek,
10	is that a possibility. Thank you very much.
11	(applause)
12	FACILITATOR O'NEIL: Fran Sontag.
13	MS. SONTAG: Hi. My name is Fran
14	Sontag. Let me say at the outset that the cleanup
15	of the contaminated sites which has already been
16	done is greatly appreciated. And your interest in
17	continuing to do a good job is evidenced by this
18	meeting.
19	However, I have some concerns which I
20	feel need to be addressed. These involve
21	answering a question which you could call how
22	clean is clean. And it's, you know, kind of a
23	judgment call there.
24	Since these sites are in highly
25	populated urban areas, and since the way we answer

1	the question will affect our children and
2	grandchildren for hundreds and thousands of
3	centuries, I feel strongly that we should go for
4	the cleanest clean which is possible.
5	And I choose the word possible rather
6	than feasible because I do not think we should
7	take the easy route in a manner which will have
8	consequences which last longer and are more
9	serious than we really would like to imagine.
10	A big problem factor is that Coldwater
11	Creek runs through the area. And during and after
12	a flood, sediment is spread over a wide area
13	outside the creek banks. Then after the water
14	subsides, this contaminated soil would naturally
15	tend to erode and get dry and blow about over an
16	even wider area. And then the next flood and
17	drought cycle would spread the dangerous stuff
18	more, and so on and so on, for a long, long time.
19	So I hope you can see my logic of
20	removing as much as humanly possible now while
21	it's relatively close to where we can identify it
22	and deal with it. Because this dust is not just
23	any dust. As we've mentioned a number of times,
24	it contains uranium and thorium and radium
25	particles. And these eventually break down into

Т.	radon gas. And this gas of the dust containing
2	these particles is inhaled. It gives off
3	radioactive particles and rays within one's body
4	which cause havoc of all kinds. These are
5	especially damaging to children I think. And I'm
6	a grandmother of 9 and I have concerns for their
7	future, and even more immediate concerns for the
8	families who are really living close to these
9	dangerous sites.
10	So I would urge you to dig more deeply
11	all along Coldwater Creek and its bank for quite
12	some distance. And when you finish that, I guess
13	you would include this, remove the gabion wall or
14	whatever that is, that rocks and chickenwire which
15	is there now and replace it with something more
16	permanent which can be monitored for nuclear
17	contamination regularly on and on into the future.
18	I would urge you to dig more deeply
19	where the big piles of contaminated soil have
20	already been removed. Maybe somebody just said
21	that they were going to do that, I'm not sure.
22	Because surely some has already leached into the
23	underlying soil.
24	And one more thing. I visited that site
25	fairly recently and I felt like it was very poorly

1

marked. It's almost indistinguishable from the

```
2
         many industrial sites that are really close by.
         Perhaps some larger, more colorful and clearer
         signs would give a better warning to the
 5
         uninformed visitor that this is a real hazardous
         waste site.
                   I thank you for the consideration of my
         concerns, and one more time would urge you to do
 9
         the right thing and do a really thorough job.
10
         Thank you.
                              (applause)
11
                   FACILITATOR O'NEIL: Kay Drey.
12
13
                   MS. DREY: First, I have to find my
14
         legible copy. I was hoping I'd be all at the end
15
         and then I'd have everything nice.
                   My name is Kay Drey. I live at 515 West
16
17
         Point Avenue in University City.
                   In April 1942 the United States
18
19
         government contracted with Mallinckrodt Chemical
20
         Works to purify tons of uranium needed for the
21
         highly secretive goal of creating an atom bomb.
         In only 50 days Mallinckrodt was successful and
22
23
         went on to purify all the uranium used in the
         world's first self-staining nuclear chain reaction
24
25
         in Chicago on December 2nd, 1942.
```

1	The atomic age was born, and so was
2	nuclear waste. But as I have said often, after
3	first learning in 1978 about St. Louis's pivotal
4	role, the brilliant scientists who carried us into
5	the atomic age were never asked if they could get
6	us out.
7	Mallinckrodt processed uranium at its
8	downtown plant for 15 years, and then for about
9	another 10 years at Weldon Springs in St. Charles.
10	More than a billion dollars have already been
11	expended trying to clean up the radioactive wastes
12	that were generated as the result of
13	Mallinckrodt's 25 year participation in the
14	production of nuclear weapons for the Manhattan
15	Project and the Cold War, and as the result of the
16	36 years since then during which these wastes have
17	eroded, leached, blown and spilled throughout our
18	metropolitan community.
19	I'm here tonight to urge the Corps of
20	Engineers to seek the funding first to undertake a
21	thorough radiological survey to evaluate the
22	groundwater, surface water and lands known or
23	suspected to be contaminated using the best
24	available technology, and then to seek funding to
25	clean up all those sites that exceed the 5/15

```
picocurie standard where the public currently has
 1
         access or is expected to have access in the
 2
         foreseeable future, including the sites from which
         contamination will continue to migrate onto
         accessible land and water. And also to seek
         funding for the exhumation, transport and disposal
         of the wastes, removing them from our densely
         populated urban area situated where creeks and
 9
         rivers flow and overflow, threatening the further
10
         dispersal of the contamination.
                   The proposed final remedy for the North
11
12
         County site should be as final as our state of the
13
         art monitoring, extraction, isolation and
14
         transport technologies can provide. And should be
15
         based on standards that reflect today's knowledge
         of the hazards and risks of those wastes into the
16
17
         far distant future.
                   I always -- just it's mindboggling to me
18
19
         to think that uranium 238, the predominant
20
         material here, has a half life of 4 and a half
21
         billion years. You have to multiply that times
         10.
22
23
                   I guess one of my main concerns is
         Westlake Landfill which has been mentioned this
24
25
         evening. It's only I think -- I'm sorry, I left
```

```
the numbers at home, the river miles -- but I
 1
         believe it's about 6 miles, maybe it's a little
 2
         more than that, upstream from the North County
         drinking water treatment plant in Florissant. I
 5
         think it's Howdershell Road. Coldwater Creek
 6
         meanders through residential neighborhoods, past
         parks, churches and so forth.
                   It is -- I'm sorry, I'm getting a little
         confused. Now I want to talk about Coldwater
 9
10
         Creek. Okay, Westlake Landfill impacts upon the
         Missouri River upstream from where the Florissant
11
12
         drinking water in-take is. And then the Coldwater
13
         Creek concern is very basic to all of us. I think
14
         we all would like the creek cleaned up as well as
         possible. I think it's even hard to monitor it
15
         accurately. But it does flow through populated
16
17
         areas, past schools and churches and homes. And I
18
         just think that, as the speaker right before me
19
         said, it's going to continue transporting all
20
         these wastes.
21
                   I think the gabion wall at the west end
22
         of the Airport Site should be removed and not, I
23
         don't know, washed off. I was talking to somebody
         earlier this evening. I think it should just
24
25
         plain be removed. The gabion wall is chickenwire
```

1

with rock in it. But they put it onto the land

```
right where it's extremely contaminated, very high
 2
         levels of radioactivity when they installed the
         gabion wall.
                   And I at the time said that I felt that
 5
 6
         not only were they badly exposing workers with no
         protective clothing, a little bit of some overalls
         but that was about it, no breathing apparatus, but
 9
         I said why are you putting this stuff into this
10
         contaminated shoreline along Coldwater Creek when
         you know this is very, very highly radioactive
11
12
         dirt. And I knew they would have to remove it
13
         some day. Well, I certainly hope now that that
14
         time has come that they will remove the gabion
15
         wall because it is highly -- it is filled with
16
         sludge and so forth from the Airport Site.
17
                   I think even to hint at using
         institutional controls for anything would just be
18
19
         a laugh when you're talking about half lives that
20
         we're talking about. I mean the paper won't even
21
         last for 25 years that the institutional controls
         are written on. And I have wonderful documents at
22
23
         home that the Department of Energy and other
24
         agencies have paid for that are entitled things
25
         like how to communicate with people 300
```

1	generations from now.
2	And this is just supposedly the only
3	requirement for these sites is to have a 1,000
4	year protection or at least 200 years. I've never
5	understood that sentence. But I think when you're
6	talking about the materials that are as hazardous
7	for as long as ours are, institutional controls
8	and 1,000 years are just not acceptable.
9	I guess I should say that my number one
10	wish is that we should stop generating more of
11	this stuff until we figure out what to do with the
12	first 61-year accumulation that we already have.
13	(applause)
13 14	(applause) I do want to say that I realize I
-	
14	I do want to say that I realize I
14 15	I do want to say that I realize I unfortunately didn't write down, I think it was
14 15 16	I do want to say that I realize I unfortunately didn't write down, I think it was Sharon Cotner who did something about the baseball
14 15 16 17	I do want to say that I realize I unfortunately didn't write down, I think it was Sharon Cotner who did something about the baseball stadium filled with something like ping pong balls
14 15 16 17	I do want to say that I realize I unfortunately didn't write down, I think it was Sharon Cotner who did something about the baseball stadium filled with something like ping pong balls or something. I was trying to do something else
14 15 16 17 18	I do want to say that I realize I unfortunately didn't write down, I think it was Sharon Cotner who did something about the baseball stadium filled with something like ping pong balls or something. I was trying to do something else at the same time. And then there would be one
14 15 16 17 18 19	I do want to say that I realize I unfortunately didn't write down, I think it was Sharon Cotner who did something about the baseball stadium filled with something like ping pong balls or something. I was trying to do something else at the same time. And then there would be one ball that would be blue or something and it would
14 15 16 17 18 19 20	I do want to say that I realize I unfortunately didn't write down, I think it was Sharon Cotner who did something about the baseball stadium filled with something like ping pong balls or something. I was trying to do something else at the same time. And then there would be one ball that would be blue or something and it would be a picocurie.

2.22 radiation particles or rays, disintegration,

```
2.22 every minute. And when we have materials as
 1
         highly radioactive as we have, that's a lot of
 2
         radiation particles to have to be concerned about.
         Particularly again going back to Coldwater Creek
 5
         when you're talking about water that can overflow
 6
         into people's backyards where they have gardens
         perhaps with vegetables.
                   Because another concern about our St.
         Louis sites is that we have a lot of alpha
 9
10
         emitters, alpha radiation. And some people say
         well, alpha radiation is no big deal, it can't
11
12
         even penetrate a piece of Kleenex. However, if
13
         you inhale uranium, thorium, radium, radon gas and
14
         so forth, and that gets into your system, into
         your lungs, for instance, and those materials give
15
         off alpha particles, an alpha particle is
16
17
         considered, even by the Nuclear Regulatory
         Commission that likes all radioactivity, an alpha
18
19
         particle is considered 20 times more hazardous
20
         than beta or gamma. So a picocurie of
21
         alpha-emitting radiation is not insignificant.
                   And I guess I just want to sort of
22
23
         repeat again that our -- we have been involved in
         the creation of materials for nuclear weapons.
24
25
         Our nation is the only nation fortunately to date,
```

```
I mean it's good no one else has done this, but
         our nation is the only nation that has used atomic
 2
 3
         weapons of mass destruction against real people.
 4
                   We all hope of course that this will
 5
         never have to happen again. But I think the
 6
         ultimate irony of continuing to have to deal with
         these materials is that we are -- we have been
         killing our own as a wonderful book is called.
 9
                   And now the administration in
10
         Washington, D.C., if you can call it an
         administration, is proposing to generate more
11
12
         nuclear weapons and test them. And I think that
13
         is just an outrage.
14
                   So let's try -- and I do also join with
15
         the others in thanking the Corps of Engineers for
         working as hard as they are working. I hope they
16
17
         take good care of the workers. I continue to
         worry about the people who are cleaning up these
18
19
         materials.
20
                   I will just add one fact that I've been
21
         hearing from one man who is dying who worked at
         the downtown site, the Mallinckrodt site. In
22
23
         nature you may be exposed to let's just say 10 or
         even 20 counts per minute, radiation particles per
24
25
         minute in natural background. And he was, in the
```

1

work he was doing, digging below the ground at

```
2
         downtown Mallinckrodt, he was exposed to a
         1,300,000 counts per minute.
                   So this is hot stuff. It's dirty stuff.
 5
         And let's get on with the cleanup. Thank you.
 6
                              (applause)
                   FACILITATOR O'NEIL: Rebecca Wright.
                   MS. WRIGHT: My name is Rebecca Wright
         and I live in the City of St. Louis on Rutger
 9
10
         Street.
                   Much of the radioactive waste has been
11
12
         removed from the North County site, including
13
         contaminated soils and other materials from the
14
         various sites, and the radioactive materials have
15
         been shipped to facilities in Utah and Idaho.
         That in itself is a tremendous accomplishment.
16
17
         Even though the waste still exists, hopefully it
         is and will remain isolated, and hopefully no
18
19
         workers were exposed to radiation in the cleanup
20
         process or the storage process or ever.
21
                   However, now it is important to complete
22
         the task. Many areas in the North County site,
23
         including Westlake Landfill, still have surface
         and subsoil contamination and sediments that
24
25
         contain high levels of radium, thorium, uranium,
```

1	protactinium and actinium. Some of these elements
2	will emit radioactive particles for millions of
3	years and have the potential to be taken up by
4	plants and to poison or mutate human beings and
5	animals now and virtually forever.
6	Perhaps long after institutional
7	controls, origins and presence of the waste will
8	fade from recorded history. That's why all of the
9	remaining contaminated materials should be removed
10	as soon as possible while there are still means
11	and funding and the will to do the job before the
12	contamination spreads and affects present and
13	future generations.
14	I urge the Army Corps of Engineers to
15	press for the most complete and technologically
16	feasible cleanup of these wastes. And this should
17	include excavation and removal of all the
18	contaminated material from all the sites, and
19	include appropriate monitoring of a site before,
20	during and after cleanup, and include cleanup of
21	the inaccessible sites as soon as possible, and to
22	include cleanup of Coldwater Creek, banks and
23	sediment to a $5/15$ standard because of floods and
24	the water levels and the potential to spread the

contamination. Thank you.

1	(applause)
2	FACILITATOR O'NEIL: Sally Price.
3	MS. PRICE: Good evening. I would like
4	to just first mention that I became involved in
5	this issue at the radiological contamination at
6	the Airport Site as the result of my son's
7	activities playing in the creek when he was 10
8	which was quite a while ago at this point as Jim
9	Werner said.
10	But at any rate, I also want to mention
11	to my fellow citizens here tonight that I have
12	served on the task force that was sponsored by the
13	Department of Energy, and subsequent to that the
14	Oversight Committee that is sponsored now by the
15	Corps.
16	So because of my activities on those two
17	community groups, I've been pretty well informed
18	about what's been going on and processes that have
19	been used to clean up to this point. And I also
20	want to echo the remarks and I applaud the Corps
21	for the cleanup that they have accomplished.
22	Tonight I do have a couple of comments,
23	and I must say I haven't had a lot of time to
24	totally in depth look through the document, but
25	from what I can glean with what I have looked at,

_	my questions of comments configure conferm one
2	creek.
3	First, in my review it appears that the
4	radiological analysis that was done last was done
5	in June of 1999, and that it was kind of
6	subsequent to data that was done through the 80's
7	and 90's as stated in the document.
8	My comment is that in view of all the
9	construction that's happened along the creek side
L 0	at the SLAPS area and again at HISS where they
L1	removed the piles, much to our delight, perhaps
L2	the sediment finding analysis would be different
L3	today than it was in June of 1999. Certainly
L 4	different than what it had been in the early 90's
L5	The risks and assessments that have been
L 6	done to calculate this idea of below the mean
L7	water gradient appear from what I can see to be
L 8	based on numbers of those dates. So I question
L 9	whether that's, you know, the most accurate, and
20	maybe there is a shortcoming in that analysis. So
21	I am asking for a re-evaluation of that or a
22	response on that.
23	The second point is that this mean wate:
24	gradient, the application of that to this cleanup

where you're going to clean a certain level above

1	this and a certain different level below it, seems
2	to me to be logical but not practical. And the
3	reason I don't believe it's practical is because I
4	can recall how my son dug rocks and golf balls out
5	of the middle of the creek bed. And a 10 year old
6	child who is always drawn to creeks will not know
7	where that invisible line is. And so that's my
8	concern about the logic of using that kind of a
9	process to this cleanup.
10	So I've been satisfied with the SLAPS.
11	I think the HISS has gone well. It's just the
12	creek is what affects this community. And it
13	affects everybody. And I don't think there's been
14	enough addressed to give me the assurance that
15	safety has been ensured. Thank you.
16	(applause)
17	FACILITATOR O'NEIL: Sally Price.
18	SOMEONE FROM AUDIENCE: That was her.
19	FACILITATOR O'NEIL: Pamela Todorovich.
20	MS. TODOROVICH: I'm Pamela Todorovich.
21	I live in St. Louis County.
22	For about 60 years people in North
23	County have been unknowingly exposed to the
24	radiation in this area. As a child my family
25	lived in Berkeley. We traveled Brown Road, now

1 called McDonnell Boulevard, often. We played in

2	Coldwater Creek. We went to school at St.
3	Bartholomew's on Latty Avenue.
4	There was a time when the public didn't
5	
	understand the true dangers of radiation. A time
6	when children were encouraged to put their feet on
7	X-ray machines at the shoe store to see the bones
8	in their feet. We now know there is no safe dose
9	of radiation according to the studies.
10	This danger left behind from the
11	Manhattan Project continues to threaten the health
12	of generations who live and work here, and will
13	forever, unless it is removed from where these
14	people live. There's a saying; you did then what
15	you knew then, when you knew better you did
16	better.
17	It is well past time for the Corps of
18	Engineers to finish their obligation to this
19	community and do a better job and remove all the
20	radioactive waste left from the project of the
21	bomb before it contaminates more areas and exposes
22	more unsuspecting citizens. Alternative 6 might
23	be a good option. Thank you.
24	(applause)
25	FACILITATOR O'NEIL: Donovan Larson.

1	SOMEONE FROM AUDIENCE: He had to leave.
2	FACILITATOR O'NEIL: How about Leon
3	Steinbach?
4	MR. STEINBACH: I'm Leon Steinbach. I'm
5	a Hazelwood resident. I'm retired U.S. Army of
6	the U.S. Army Aviation Troop Support Command.
7	And one of our responsibilities when I
8	was a federal employee was to develop and produce
9	protection uniforms that protected against
10	radioactive and chemical warfare. The Army looked
11	out for their troops in the field.
12	And I think the delay in action for the
13	public welfare since the manufacture and storage
14	of radioactive materials in this area, that we've
15	waited too long and I think we should act now.
16	In 1965 daily for about 5 years on the
17	way to work I traveled on Latty and Buddy, Nyflot.
18	I sold real estate in this area. And I'm a little
19	irritated and upset that I was one of the people
20	that could have been exposed to this radioactive
21	material.
22	I disagree with the study that the creek
23	has a low priority as far as resolving and
24	cleaning up radioactive material. I think the
25	creek all the way from the site here at the

```
airport to where it goes into the river should be
 2
         retested, not only the sediment below the water
         but the banks. Because when the banks flood or
         over a period of years, you could have had
 5
         cumulative radioactive dried dirt, and even in
         cases where basements flooded that could be a
         possibility of radioactive.k.
                   I'm currently -- I sell real estate, do
         some real state appraising. And one of the
 9
10
         factors we look for is environmental hazards. And
         I think this is a key concern of a person that
11
12
         wants to sell his house. I know that from the
13
         questions asked it's probably more serious than
14
         even having a house in a floodplain.
15
                   So I would recommend a concentrated
         effort on cleaning up the creek, Coldwater Creek
16
17
         area, and the banks and possibly the houses that
         have been flooded, test it.
18
19
                   I don't agree with some of the future
20
         findings as voiced by the previous speakers that
21
         are in your study.
                   I do appreciate speaking here tonight,
22
23
         but I think the Army's motto is take action and I
         think you should take more immediate action and
24
25
         just implement the plan. And I agree with your
```

1	alternative number 5. Thank you.
2	(applause)
3	FACILITATOR O'NEIL: Daniel McKeel.
4	MR. MCKEEL: Hello, everybody. I want
5	to thank the organizers of the meeting for
6	allowing the public to comment on this important
7	feasibility study and the proposed plan.
8	My name is Dan McKeel. I'm a human
9	pathologist who works on the faculty of Washington
10	U School of Medicine in the Department of
11	Pathology and Immunology. And that's located
12	where I live in the City of St. Louis. In my work
13	I direct a general pathology laboratory for the
14	federal Alzheimer's center.
15	And in recent years I've been engaged
16	actively in the citizen oversight of what's going
17	on at the Weldon Springs site. I think I have by
18	now a pretty good idea of the Mallinckrodt
19	Chemical Works uranium division operations. And
20	basically flowing from that, I'm very active these
21	days in supporting the efforts of the former
22	workers at MCW and their survivors to gain their
23	long overdue compensation under the federal
24	EEOICPA 2000 law and endorse their efforts to
25	become a special exposure cohort.

1	My comments tonight I guess are a little
2	different from what anybody else has brought up.
3	But first, before I have that, I have a very
4	simple comment and two brief questions related to
5	it. But I want to say that I favor the idea of
6	alternative 6, that is cleaning up as much as
7	possible. And under the roads and bridges, when
8	that dirt becomes accessible, I think we ought to
9	try to clean it up.
10	I also strongly endorse what Jim Werner
11	said, that the groundwater just has to be
12	monitored unless it can be absolutely proven that
13	there's no need to do that, and I think that's
14	basically impossible.
15	So I have a comment and two related
16	questions. And they're very specific things.
17	On page 18 of the proposed plan is the
18	following statement that has what I believe to be
19	major factual errors. Since the major point of
20	the proposed remedy number 5 and 6, and all of
21	them really, is to protect the public health and
22	environment, I feel that these are very serious
23	scientific and medical errors in the document
24	which must be addressed and the statements must be
25	modified. The particular passage at issue reads

1	as follows and I'm quoting:
2	At the North County site 11
3	non-radionuclides are identified as
4	contaminants of concerns or COC's for
5	soils. And they are antimony, arsenic,
6	barium, cadmium, chromium, molybdenum,
7	nickel, selenium, thallium, uranium and
8	vanadium.
9	It goes on to say, and this again is a
10	quote:
11	These non-carcinogens have different effects
12	on systems or organs in the body.
13	End of the quote.
14	My first related comment is that uranium
15	238 is definitely a radionuclide with a half life,
16	as has been pointed out, of 4.47 billion years, in
17	addition to its toxicity as a metal. So calling
18	uranium a non-radionuclide must therefore be
19	corrected in the document.
20	My second comment is that the listing of
21	11 contaminants of concern for soil as
22	non-carcinogens is substantially incorrect. In
23	fact, perusal of carcinogen listings for the named
24	substances published by EPA, the ATSDR, National
25	Toxicology Registry, and the International Agency

for Research in Cancer reveals rather that 6 of

2	those substances are established human
3	carcinogens. In particular, arsenic, cadmium,
4	nickel, hexavalent chromium, uranium and selenium
5	sulfide. I don't really think there's any
6	argument about that. The plan does not state
7	which forms of chromium and selenium are being
8	referred to on page 18, and it is true that some
9	of those compounds are not recognized human
10	carcinogens.
11	Listed as not classified in the same
12	sources, however, because of insufficient human
13	data with respect to carcinogenesis are antimony,
14	barium, molybdenum and thallium. However, for
15	example, in the ATSDR tox fact on antimony it
16	notes that this substance has produced lung cancer
17	in rats.
18	So I need to stress that not classified
19	is different from being classified as not
20	carcinogenic since it means that insufficient data
21	exists to decide conclusively one way or the other
22	of the carcinogenicity of the substance.
23	The single compound that all agencies
24	characterize as not being a human carcinogen is
25	vanadium. Even so, the EPA and the IARC note that

1 this compound can cause irritation of the eyes,

2	skin, nose and throat. It can also cause
3	respiratory distress and labored breathing as well
4	as allergic skin reactions. So like most of these
5	heavy metals, there are toxicities other than
6	cancer and they also need to be considered.
7	So I have the two related questions are,
8	I'm interested what sources were used to classify
9	uranium as not being a radionuclide, and what
10	sources were used to say that the 6 known
11	carcinogens were to be labeled as non-carcinogens.
12	And I understand that questions aren't to be
13	answered tonight, but I hope to get an answer to
14	that eventually.
15	The related question number 2 is on the
16	following paragraph after the excerpt that I read
17	on page 18 of the plan is this statement, and I
18	quote again:
19	Toxicologists evaluated the primary
20	effects of 11 metals in the soils of
21	North County.
22	End quote.
23	So my question related to that is who
24	were the toxicologists, and I would like to have
25	their name, their degrees, their agency or

1	institutional affiliations, and what were their
2	job titles.
3	Second, it mentions primary effects.
4	And I would like to know what is meant in the
5	document by primary effects that apparently were
6	used to classify these 11 metals as
7	non-carcinogens. And by primary, I think that's
8	important to define what that means since all of
9	the known biologic effects of the 11 compounds may
10	be operating on citizens exposed to them to harm
11	human health and the environment by imposing a
12	cumulative risk from many diseases that are too
13	numerous to go into detail here tonight.
14	I do plan to submit more extensive
15	written comments to amplify these comments and I
16	thank you very much for allowing me to speak.
17	(applause)
18	FACILITATOR O'NEIL: Kathleen
19	Logan-Smith.
20	MS. LOGAN-SMITH: Hi, I'm Kathleen
21	Logan-Smith with Health and Environmental Justice
22	St. Louis.
23	And I have a lot of questions and I'll
24	submit a lot of these in writing. But it seems to
25	me that, first of all, we'd like to thank the

```
Corps for taking action. After 61 years of living
 1
 2
         with the stuff it's nice to have something
 3
         happening.
                   But I would have to say that if I were a
 5
         teacher I'd have to give you a C because you've
 6
         turned in a piece of incomplete work. It seems
         like we have some big holes in the plan and it
         looks like Coldwater Creek is one of those big
 9
         holes, that that's not adequately addressed in the
10
         plan and people have already raised those
         concerns, I won't go into those details. And it
11
12
         looks like Westlake Landfill is a really big hole
13
         considering the amount of waste at that site.
                   The idea -- I'd like to also address the
14
15
         idea of permanent structures. Those of us who
         have ever driven Interstate 70 know that there's
16
17
         really no such thing as a permanent road,
18
         especially here. And people who thought that, you
19
         know, certain areas were going to be permanent
20
         roads going into wheat fields are now driving into
21
         subdivisions in North County.
                   So I think that remediating all the
22
23
         sites and all the soils that are contaminated is
         going to be the best plan in the long run. And
24
25
         how ever we have to do that, if we have to wait
```

1

for roads to be moved, but they will be moved, I

```
assure you, because that's just the nature of
 2
         things. The only thing constant we know of is
         change.
                   So one of my questions is what happens
         in 20 years if a road or bridge moves, who pays
         for the cleanup then. And that's something that
         people have been talking about with long-term
 9
         stewardship issues, you know, what's going to
10
         happen if they hit a hot spot when they're moving
         a road in the county or somebody is moving a
11
12
         driveway or something that you considered
13
         permanent today, we've discovered is not nearly as
14
         permanent as the radioactivity underneath it.
15
                   I think that a more thorough survey of
         the creek definitely needs to happen. We had a
16
17
         lot of discussion already about high water events.
                   The thing that's not addressed here, and
18
19
         it's not necessarily a Corps of Engineers area of
20
         expertise, is the health risks. You know,
21
         communities that are exposed to elevated levels of
         radionuclides experience leukemia. Nationally
22
23
         brain cancers in children are going up. We have
         increases in immune diseases and cancer. And all
24
25
         these health effects are happening to us
```

```
nationally and locally. And what kinds of health
 1
 2
         surveys, health studies, analysis of data has been
         done on residents and people who have worked
         around this site.
                   I know at least one McDonnell Douglas
 6
         engineer who developed leukemia. Did that happen
         because he worked at a building that was, you
         know, ventilated near the SLAPS site? I don't
 9
         know. But it's questions that need to be asked
10
         somewhere.
                   The issue that Jim brought up I thought
11
12
         was important for us to consider is the long-term
13
         environmental stewardship office funded long term?
14
         Because if it's not it won't happen. And those of
15
         us who have ever dealt with anything relating to
         government know that if it's not funded, it's not
16
17
         going to happen.
                   The thing that's often overlooked when
18
19
         you're assessing risk is cumulative risk. So your
20
         risk of exposure to this particle of uranium or
21
         this amount of arsenic might be acceptable, but if
         you're exposed to arsenic and uranium and several
22
23
         other things all at one time, who is doing the
```

math on those numbers? And the answer generally

24

25

is nobody.

1	I have a question about the term
2	unlimited use and unrestricted exposure. Can
3	sites that get that designation and have been
4	deemed cleaned up, can they can sites get that
5	designation without being totally clean, can you
6	get that designation if you've got institutional
7	controls on a site? Because I think that
8	shouldn't happen. And I want some clarity there.
9	Because if a site is going to be called
10	unrestricted use, it needs to be completely safe.
11	I really, really am interested in
12	knowing why the landfill is not included in this
13	plan. I think it's a tragedy.
14	And I would like to suggest that as a
15	matter of national policy we all consider the
16	efficiency and the speed at which we were able to
17	conduct a war. And compare that to the efficiency
18	and the speed at which we have been conducting
19	this cleanup and dealing with the wastes and the
20	fallout of our warring practices for the last 60
21	years. We need to apply the same strategies, the
22	same tactical, you know, successful ability to
23	solve problems. If we can do it at war, we can do
24	it at this war on pollution. So I think we need
25	to challenge our national energies and our talents

```
into solving the problems from the first 60 years
         of the atomic age. And I would suggest that the
 2
 3
         money for the cleanup come from money that's
 4
         channeled into building bombs right now.
 5
                             (applause)
                   FACILITATOR O'NEIL: Rick LaMonica.
                   MR. LAMONICA: I'm Rick LaMonica. I
         live near 703 Crompton Court in Crestwood. It's
 9
         close to Webster University. I'm very unfamiliar
10
         with all these North County sites. I'm familiar
         with where the Mallinckrodt stuff is, but I don't
11
12
         really know the locations very well.
13
                   I do know that much in North County is
14
         in a floodplain. Experience from the last 10
15
         years shows that they have had massive flooding,
         particularly in the spring. I'm not really happy
16
17
         that the standard of cleanup for Coldwater Creek
         and their term of mean water gradient. I would
18
19
         encourage them to clean up the area along
20
         Coldwater Creek and include Westlake Landfill
21
         which I understand is also an area that can flood.
         And remember that water can move this stuff around
22
23
         and shift around the sediments faster than the
24
         Corps of Engineers has the ability to clean it up.
25
                   And so the cleanup should be better.
```

1

25

This is no longer rural. It's very urbanized.

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2
         It's going to be harder and harder each year that
         we let it sit around there and move around
         further.
 5
                   And I would encourage them to do better
         than they did with the work that they did at
         Coldwater Creek several years ago. I can remember
         reading some articles in the paper and was kind of
 9
         disgusted with the way they were using the
10
         cleanup. What we want to do is clean up the area,
         not make further contamination by just shifting
11
12
         the stuff around. We've already done that for 60
13
         years. I understand you can still follow routes
14
         that trucks were taking with a geiger counter a
15
         long time ago.
                   So we know we can do better and we need
16
17
         to have better standards. For the minor
         difference between alternates 5 and 6, considering
18
19
         comments from people that live up here, I would
20
         also recommend that they do it to level 6, clean
21
         up more of the sites, make sure that they're
22
         cleaning up the areas along the banks of these
23
         creeks. If this is like South County there's
24
         little creeks running all over the place. And
```

the use of storm water runoff and heavy rains. So

1	we need a little bit better cleanup and make sure
2	the next time the stuff floods, it just doesn't
3	move the stuff into the river where the creeks run
4	into the Missouri River upstream from some of the
5	water in-takes. Thank you very much.
6	(applause)
7	FACILITATOR O'NEIL: John Bunn. Mr.
8	Bunn not here? That's the end of our list. Is
9	there anyone else that would care to speak that I
10	don't have listed here? Yes.
11	MR. HENSEY: My name is Walter Hensey.
12	I used to live one block away from Latty when the
13	kids were growing up. I live in Des Peres at
14	present.
15	I just wonder why the government doesn't
16	have more control over that land and why it's in
17	private hands. It seems to me there should be
18	some way to keep that land tied to the
19	contaminated waste category so that in future
20	generations it won't be forgotten about. There
21	must be some way to put it on record that whole
22	not just that particular site that we're
23	identifying for cleanup, but going beyond that
24	area where contamination has probably spread, and
25	especially in Coldwater Creek and down stream from

1 Coldwater Creek.

2	I think definitely that Coldwater Creek				
3	should be monitored regularly until there's a				
4	finding of no longer any contamination. That				
5	could go on for centuries possibly. But I think				
6	it could be continued until there's no more				
7	contamination in the creek. Also I think there				
8	should be better designation of that area, posting				
9	of signs of the contaminated area.				
10	And I believe that even though you				
11	consider 5 to be the preferred option, I would				
12	think that you ought to at least cover the area				
13	under the roads and put it in your plan some way				
14	that it's covered so that it won't be forgotten.				
15	And I'm just wondering if you don't				
16	clean up the contaminated area under the roads and				
17	structures, how are you going to keep that				
18	contamination from migrating into the area that				
19	you've considered cleaned up. You'll have to go				
20	back and clean up the whole area if it does. So I				
21	would say why don't you just do the whole thing.				
22	So I appreciate your giving me the				
23	opportunity to speak. Thank you.				
24	(applause)				
25	FACILITATOR O'NEIL: Is there anyone				

1

25

else that would like to speak? If not, we'll go

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back to Sharon for a wrap-up.
 2
                   MS. COTNER: I will keep my wrap-up
         comments very short. It's getting near 9:00. I'd
 5
         like to thank everyone. I know we all have very
 6
         busy lives and it's very pleasing to see this many
         people who are that interested in taking time out
         of their lives and their busy schedules to come
         here and make statements. We do value your
10
         statements. We're very much interested in what
         you have to say.
11
                   You still have, if you wish to make
12
13
         written comments, until the 14th of July. We will
14
         be taking comments until that day. If you're
15
         interested also in seeing the responses to your
         comments and how they're incorporated, be sure to
16
17
         touch base back with us or come to an Oversight
         Committee meeting. We do hold those the second
18
19
         Friday of every month at the Latty trailers at
20
         11:30. You're welcome to attend. They are a
21
         public meeting. Please touch base with us and
         find out what's happening.
22
23
                   If nothing else, touch base back with us
         in the October, November, December time frame.
24
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The Record of Decision and responsiveness summary

1	we hope will be issued in early 2004, January and
2	February 2004, and at that point in time we'll be
3	able to see how your comments were incorporated
4	and specific responses to all your comments.
5	And having said that, thank you for
6	coming this evening.
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1	REPORTER'S NOTARIAL CERTIFICATE		
2			
3	I, Sandra L. Ragsdale, a Registered		
4	Professional Reporter and Notary Public within and		
5	for the State of Missouri, do hereby certify that		
6	I was personally present at the afore-mentioned		
7	public meeting and that the proceedings were		
8	stenotyped by me at the time and place and for the		
9	purpose in the caption stated; that my shorthand		
10	notes were transcribed by me personally or under		
11	my direction; that the foregoing transcript		
12	consisting of 81 pages is a full, true and correct		
13	transcript of the said proceedings so had; I		
14	further certify that I am neither of counsel nor		
15	of kin to any of the parties involved in this		
16	matter and am in no way financially interested in		
17	the outcome of said matter. Witness my signature		
18	6-27-2003.		
19			
20			
21			
22	Notary Public		
23			
24	Notary expires 7-21-2004		