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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 5

EPA Proposed Cleanup Plan for Neighborhood Site
South Minneapolis Residential Soil Contamination Site
Minneapolis, Minnesota

YWCA of Minneapolis
2121 East Lake Street
18 Lake Boulevard NW
Minneapolis, Minnesota

Met, pursuant to Notice, at 6:30 in the
evening on June 11, 2008.

REPORTER: Janice Dickman, RPR

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1 APPEARANCES:

2 BOB PAULSON, Hearing Officer, Community
3 Involvement Coordinator, EPA Region 5, 77 West
4 Jackson Boulevard, Chicago, Illinois 60604.

5 TIM PRENDIVILLE, Remedial Project
6 Manager, EPA Region 5, 77 West Jackson Boulevard,
7 Chicago, Illinois 60604.

8 JEFF KELLEY, Chief of Community
9 Involvement, EPA Region 5, 77 West Jackson
10 Boulevard, Chicago, Illinois 60604.

11 DAVID NOVAK, Community Involvement
12 Coordinator, EPA Region 5, 77 West Jackson Boulevard,
13 Chicago, Illinois 60604.

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18 WHEREUPON, the following proceedings were
19 duly had and entered of record, to wit:

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1 MR. PAULSON: Hello and good afternoon --
2 or good evening. My name is Bob Paulson, I work
3 with the U.S. EPA in Chicago. Does everybody have
4 an agenda? Or at least an overview of what's going
5 to be presented? Does anybody not? I guess I
6 should say it that way.

7 What do you need, sir?

8 UNIDENTIFIED SPEAKER: An agenda. I just
9 got my letter and this one (indicating). Is this
10 all I need?

11 MR. PRENDIVILLE: On the table out there.
12 Dave, would you bring this man a proposed plan and
13 an agenda, if you have one out there?

14 Anybody else need one?

15 MR. PAULSON: All right. All right.
16 Well, then what we'll do is we'll go right down the
17 agenda.

18 Again, I'm Bob Paulson. I'll talk a
19 little bit about the Superfund process; very little
20 in this case.

21 Tim Prendiville, which is right over
22 here, off to my left, he is the remedial project
23 manager. He'll go through the site. As you can
24 see, he's going to talk to you about the background
25 and then the alternative explanation of what we got

1 here, what we want to do, the proposed plan.

2 Very short, if you would, a very short Q
3 and A. We'll take a little bit of a break and then
4 we'll have the speakers. The first speakers will be
5 the elected and appointed officials of local or
6 federal. After them there will be the citizens.

7 Now, part of the proposed plan, the
8 investigations have begun on this. It's called
9 remedial investigation. And what that really does,
10 it tells us kind of what's out there and to what
11 extent the contaminant is and how it's going to
12 impact people.

13 At the same time we have a feasibility
14 study. A feasibility study gives us the basic
15 outline, some ideas on how we're going to clean it
16 up. Okay? That's been done. Now we're in a
17 proposed plan. A proposed plan means that a group
18 of individuals, Tim being one, came up with ideas on
19 how we're going to clean up this site because this
20 site is now part of a Superfund process. It rated
21 high enough on a scale to become a Superfunding
22 site.

23 The proposed plan has one important part
24 that is up to you, and that's for the citizens. You
25 have an opportunity, if you want to, to comment on

1 this site, to comment on our ideas on how to clean
2 it up. Comment on anything, really, but we would
3 like to you keep you on the site until I think it's
4 1 -- 1 July?

5 MR. PRENDIVILLE: Yes.

6 MR. PAULSON: 1 July. Presently, that
7 means you can comment tonight and our court reporter
8 will take down your comments. You can comment us
9 via e-mail. You can comment to us via letter. And
10 our addresses are on the paperwork that you have.
11 If you want to comment a couple times, by all means
12 do so. Now, if you are going to talk tonight, a
13 couple requests on my part: Number one, speak
14 plainly. When you stand up -- and I have your names
15 out there, so I'll try to pronounce them, and if I
16 mangle it, please forgive me. But, say your name,
17 and would you spell it? Because we do have a court
18 reporter and she wants to get it right. Also, when
19 you talk, remember, this is a closed room, a little
20 noise over here, we have to be able to hear. All
21 right?

22 Lastly, if you speak, be kind to each
23 other. All right? And perhaps just keep your
24 comments right to the site.

25 Any questions so far?

1 I think there's some chairs over here,
2 sir.

3 Tim, if you would.

4 MR. PRENDIVILLE: Sure. Like Bob said,
5 we're primarily here tonight to get your comments on
6 this proposed plan. What I want to do briefly,
7 maybe about 30 minutes, is go through what we've
8 learned through all the investigations we've done at
9 the site and then go over some of the alternatives
10 that we've looked at to clean this up, and discuss
11 the rationale for why we're proposing what we're
12 proposing for the cleanup.

13 This basically just outlines the process
14 we go through to get to a final cleanup at the site.
15 We've gone all the way through the feasibility
16 study. We're here at the proposed plan public
17 comment period. The next step is to take your
18 comments from tonight or those you submit to us in
19 writing, consider those comments and issue the
20 decision. It's a decision the EPA puts together,
21 final decision on what the cleanup plan will be,
22 then we can do a design of the project, figure out
23 how this thing is going to get built.

24 Then what we need to do while we're doing
25 the design, we need to go to EPA headquarters and

1 request the funding for the cleanup of the project.
2 We can't do that until we know what that's actually
3 going to cost and get that through the design
4 process. Once we get the funding, we can move
5 forward with the remedial action. We hope to get
6 all that done and start action by next year. But
7 once again, we got to get through all these steps to
8 get there.

9 Just a bit about what we know and about
10 the cite through our investigations. So our
11 understanding of the area we're talking about, our
12 investigation has gone all the way from I-94 to the
13 north to 35th Street to the south, 31st Avenue to
14 the east and 10th Avenue to the south. The
15 reason -- and, well, I should point out, too, that
16 this all started with investigations at the CMC Lite
17 Yard site at 20th and Hiawatha where they were
18 manufacturing arsenic pesticides on the facility,
19 and through the operations there some of the
20 material they were using blew off, we believe blew
21 off in the vicinity of the surrounding
22 neighborhoods.

23 As the state began investigating that
24 facility and the surrounding areas, they determined
25 the problem was too large for their resources so

1 they came to the EPA, to initiate our investigation
2 and figure out the extent of this problem out here.

3 One thing I need to point out about the
4 work that Superfund is allowed to do in the cleanup
5 here is that our cleanup is limited to what we can
6 say is from the contamination that came from the CMC
7 plant site. It's complicated because of the fact
8 that arsenic can come from many different sources in
9 the environment. It can come from plant sites like
10 this, it can also be found naturally in the soils.
11 Everyone's yard has arsenic in it naturally in the
12 geology of the area. It can come from people
13 applying pesticides or fertilizers to their yards in
14 the past, historically have had arsenic in it.
15 People could have brought dirt in from other areas
16 that had arsenic in it to these properties.

17 Part of the problem with doing these
18 investigations, trying to pull it all apart and
19 figure what is and what isn't from the CMC plant
20 site. The one way we tried to get a decision is we
21 ran an air dispersion model which took what we knew
22 about how the plant site operated and the material
23 they were using out there, put that in a computer
24 model, used wind direction, how the wind blows in
25 this area throughout the year and figure how far the

1 material might have blown from the facility. And
2 what it predicted is this blob, this kind of oval
3 shaped area, it's about three-quarter of a mile out
4 from the triangle property. We predict that that
5 would have been the area that would have been
6 impacted by the plant site.

7 Now, after we ran that model we went out
8 and sampled every residential -- almost every
9 residential property within that circle. It's about
10 3,500 properties. And we hoped that that would show
11 some type of trend that would indicate what we were
12 seeing out there was from the plant site and would
13 indicate how far out we should have actually
14 sample -- whether we should or should not continue
15 sampling outside this area.

16 The one thing the model also predicted
17 was that very close to this site, these darker red
18 areas, that's where we would expect to see higher
19 levels from the plant site and it would decrease as
20 you moved away. That's indicative of any type of
21 air dispersement scenario where you have source
22 area, ground level stuff blowing off the site, the
23 further out it gets the less concentrated it
24 becomes. So you have lower levels the farther you
25 move out.

1 When we sampled all these properties, all
2 3,500, this is what we found. The bottom is a
3 distance from the facility, so plant site would be
4 here, moving out to three-quarters of a mile out
5 here, then you have concentrations going up this
6 axis. (Indicating.) What we see is just a random
7 scattering of concentrations across the entire area.

8 We do see kind of a clumping down here
9 (indicating), and that's kind of around background
10 levels in the area. Through our investigations we
11 determined that background is around 16 parts per
12 million within this three-quarter mile radius. But
13 for the most part the really high levels, we weren't
14 seeing a big decrease in the trend that we would
15 have expected from a release from the facility.
16 However, when we started pulling apart the data, we
17 were able to find a decrease in trend only at very
18 low levels, levels near background levels.

19 So that did indicate that there was some
20 contribution from the facility, the surrounding
21 area. It's just that it couldn't tell us where --
22 what all the higher levels were from. It was
23 contributing something, just not all of it.

24 We did try to do some fingerprinting, of
25 trying to get a chemical analysis to see if there

1 were other types of metals that were associated with
2 some of the arsenic out there. Unfortunately, that
3 wasn't able to tell us one way or another what was
4 from what source.

5 So, we were basically left using this
6 distribution, along with our statistical analysis of
7 trend analysis of the data to indicate there was
8 some contribution from the facility. That gave us a
9 reason to take an action. As long as we could show
10 there's some contribution from the facility,
11 Superfund can take an action.

12 But it did indicate to us that there
13 really wasn't any reason to step outside the circle
14 that we've sampled, that there's other confounding
15 factors out there that might be causing these high
16 levels; most likely, like I mentioned, pesticide
17 applications or another source could be coal dust
18 from people. Historically, when people burned coal
19 in their houses they might have tossed it out the
20 backdoor, that could have some arsenic in it.

21 We determined that we would stop our
22 sampling. We believe we've limited the area that
23 might have been impacted by the facility to a
24 three-quarter mile radius. We would stop
25 investigating further out, but we would clean up

1 anything inside that circle posing unacceptable risk
2 to people.

3 This is just a table just showing the
4 number of properties we're talking about and the
5 distribution of concentrations.

6 There were 197 properties that had levels
7 above 95. Those were being cleaned up through our
8 removal program, and those things have been going on
9 for the last four years. There's about 34 left to
10 do. We hope to complete those this year. There's
11 still some administrative work that has to get done.
12 They're hoping to get out there by July and start
13 those up. Again, they hope to finish those up this
14 year. But there's 411 that are between 25 and 95,
15 541 between 60 and 95, and then there's a whole
16 bunch below 16. And again, 16 is what we consider
17 to be the normal levels within this area.

18 MR. McCAULEY: Quick question. I'm a
19 little confused by that graph. So the distinction
20 between, like, 541 and 411, wouldn't that indicate
21 that the 541 are less than 25? Otherwise they would
22 be in the 411.

23 MR. PRENDIVILLE: No, it's inclusive.
24 You have the 411, you have an additional 130 that
25 have levels in that.

1 So again, just in conclusion, background
2 is around 16 normal levels for the area and we
3 believe the effects of the plant are limited to this
4 three-quarter mile radius.

5 Again, I mentioned this, the higher
6 levels don't appear to be totally due to air
7 dispersion from the facility. There are other
8 things affecting in the area, and I already
9 mentioned those.

10 The next step, once we determined the
11 extent of contamination at the site, we also had to
12 go through a risk assessment to tell us how much
13 risk is posed by the contamination we found and
14 whether that's a high enough risk to justify an
15 action.

16 The thing you need to understand in our
17 risk -- in the Superfund's risk assessment
18 processing is what we mean by an acceptable risk.
19 When we talk about that we mean a maximum chance
20 over a lifetime that there may be between one extra
21 case of cancer in a group of 10,000 and one extra
22 case of cancer in a group of 1 million.

23 So what that says is that we're talking
24 about a range. Superfund doesn't specify a specific
25 number you need to clean up to. It has a range of

1 risks that are acceptable. We need to decide what
2 within that range you want to clean up to after you
3 do an analysis of nine criteria we'll talk about in
4 a minute.

5 But we're also talking about a maximum
6 chance. We're trying to assure that, if anything,
7 we're overestimating the risk at a site instead of
8 underestimating. So we use the upper 95 percent
9 numbers in our assumptions. So we don't -- we
10 assume that someone is out in the yard every day,
11 working in the yard as many days as the yard is
12 available to work in. I forget how many days it
13 was, 180, 150. And they're dealing with the same
14 high levels of arsenic in that soil each day they're
15 out there; they're getting it through their mouth
16 each time they're out there, getting it in the
17 digestive system.

18 For most people that's not true. An
19 average person isn't out in their yard every day
20 getting it in their system. They're also not
21 exposed to this exact high level every day. So our
22 risk assessment overestimates the risk to a person.
23 But that's what we use to make decisions out there.

24 And also, these really are -- they're
25 estimates of risk. They're not precise because we

1 have to assume certain things and those assumptions
2 have certain uncertainty factors associated with
3 that. So they're estimates of estimates, basically.
4 So you're not going to get a precise number of what
5 your exact risk is on this, but you're going to get
6 a really good idea in these calculations.

7 The types of things that can affect the
8 accuracy of the risk assessment, or tend to
9 overestimate, in this case, the risk at this site,
10 are a few things: One is the bioavailability of
11 arsenic in the soil. In this case what we've
12 assumed is that the arsenic you have in your soil is
13 going to be 90 percent bioavailable. That means
14 that your body can take up of 90 percent of what it
15 gets into your digestive tract, takes it up and that
16 will cause the problems in your system.

17 The reality is that number is probably
18 extremely high. In most case when is you have a
19 release like this that's been sitting in the ground
20 for 50 years, it has a chance to recombine with
21 other minerals in the soil and that, therefore,
22 becomes less -- your body is less able to take that
23 up after it's recombined with some of those numbers.
24 So we could have used a lower number in the risk
25 assessment for bioavailability, but we don't have

1 specific site numbers for that, so we assume the 90
2 percent.

3 Another is the time of exposure.
4 Generally in Superfund sites for risk assessment we
5 assume someone is living in a property for 30 years
6 and exposed to the contamination for 30 years. In
7 this site there were a couple people that commented
8 during the risk assessment process we should perhaps
9 use 50 years because there are some people who live
10 in a property a bit longer, they move to a different
11 property in the same area, so we should assume 50
12 years. But using that higher number of time, that
13 increases -- can potentially overestimate the risk
14 for a lot of people by almost a half or a third. So
15 those tend to cause the risk assessment to be higher
16 than it normally would.

17 One way to judge how accurate the -- that
18 estimate is is, looking at the maximum risk versus
19 an average risk. So we run a scenario using all
20 those high level numbers and calculate the numbers.
21 We use that for a decision. But we also run a
22 scenario where we look at an average person who's
23 not out there every day, not exposed to the same
24 high levels every day, and that gives us something
25 to compare them to to see how realistic that maximum

1 level is.

2 This table is mainly here just to show
3 that, you know, we do have a high enough risk out
4 here to justify an action. We looked at different
5 concentrations we detected at the site. There was
6 background we looked at, we looked at the 95 part
7 per million level and we looked at the 500 parts per
8 million, which is at the upper end of what we
9 detected on the property out there. We also looked
10 at children, adults that lived on the property that
11 eat garden vegetables. We looked at people that
12 don't eat garden vegetables on the property, and a
13 construction worker.

14 I don't know what color that looks like
15 to everybody, yellow, green, whatever, these are the
16 ones outside our risk range. They have a risk
17 higher than 1 in 10,000. So if you have 500 parts
18 per million you may a risk of 2 in 1,000 of getting
19 cancer. So these are outside the risk and they
20 justify us taking action.

21 We then have to turn that around and say
22 okay, you know there's high risk at these levels.
23 What is an acceptable level at the site or what
24 levels are within EPA's risk range? And this is
25 what we've come up with: It's the two ends of the

1 risk range, the 1 in 10,000 and the 1 in a million
2 and numbers in between. You'll see that the
3 background concentration of 16 parts per million has
4 a risk level of 6 in 100,000. You can also say
5 that's .6 in 10,000 to compare the 25 to the 16.

6 They have to mention here, too, that in
7 Superfund, in the EPA, or most cleanup programs, the
8 program is not going to clean up a low background.
9 Doesn't make sense to clean up an area where the
10 area outside of that is going to have just as high
11 levels. So we're not going to clean up the low
12 background.

13 This is -- the central tendency exposure
14 is the average exposure that was talked about that
15 we can use to compare to see how realistic that risk
16 is to these numbers up here. So you can see that an
17 average person, instead of the maximum exposure, an
18 average person could be exposed to a 119 parts per
19 million and have a risk of 1 in 10,000. So that
20 kind of indicates that that 25 number is really an
21 overestimation of the risk out there. Gives us some
22 way to measure that.

23 MR. McCAULEY: Could I just ask, you're
24 assuming dirty vegetables, right? Because the
25 vegetables don't actually contain arsenic

1 themselves.

2 MR. PRENDIVILLE: The risk was on arsenic
3 in the vegetable. I can't recall if it included
4 dust. It did? It included dust on the vegetables.
5 It included dust and arsenic taken up by the plant.

6 MR. McCAULEY: So plants will take up
7 arsenic?

8 MR. PRENDIVILLE: At low levels. This
9 kind of tells you what -- it gives that issue. We
10 try to determine, you know, which way posed the most
11 risk to people, how you would get the arsenic into
12 your system. And you'll see the ingestion of just
13 soil contributes about two-thirds of the risk to you
14 on your property. A quarter of that risk might be
15 from eating garden vegetables that have taken up the
16 arsenic into the plant. And then there's absorbing
17 it through the skin, getting the dirt on your skin
18 and arsenic absorbed through the skin, and 1 in
19 2,000 dust inhalation.

20 So there is some risk, but it's
21 overridden by what you could get dirt into your
22 mouth, not just eating vegetables. What we're
23 trying to point out with this is that whatever
24 cleanup we do out here, it takes care of the
25 ingestion pathway, the dirt not getting into your

1 mouth. That addresses two-thirds of the risk, and
2 would be fine. But in doing that you're also taking
3 care of these other risk pathways. So you're
4 getting rid of the contaminated dirt that the plants
5 might be absorbing the arsenic from, so you're
6 actually addressing all these risk pathways.

7 Okay. So we know we have a risk, we know
8 what an acceptable risk -- acceptable number might
9 be for a cleanup, we have the range between 16 and
10 25. We then want to take all that and put that
11 together in different cleanup options and evaluate
12 those against each other to figure out which one
13 might be the best one to use out here. We looked at
14 six cleanup options, and I'll get to them all
15 together -- or, specifically here.

16 We're required to include the no action
17 alternative in any analysis. Normally if you
18 weren't required to do that, it would drop out in
19 the early screening process. It wouldn't carry
20 forward. But the rules require us to carry this
21 through so we have a baseline to compare all of the
22 cleanup options against. So that's just there. It
23 doesn't mean we're even thinking of selecting that,
24 but it's there as a basis of comparison for the
25 other alternatives.

1 Alternatives 2A and 2B are really what's
2 been going on with the removal actions out there.
3 It's just using a different cleanup standard.
4 Instead of the 95 we've used, we've gone out and
5 will have cleaned up all the properties that have
6 been above 95. Under this alternative, under 2A,
7 we've used 25 parts per million for the cleanup
8 standard. Under 2B would be 16 parts per million
9 for the cleanup standard.

10 So we'd go in if they had above those
11 levels, we'd dig down 12 inches, we would take a
12 sample from the base of the excavation. We've done
13 that all along through this process to determine how
14 much might be left behind at the bottom of the hole,
15 and then just backfilled, regardless of what that
16 concentration was, which is a little different than
17 the removal action because they're just concerned
18 about short-term risks. We have to deal with the
19 long-term. Potentially that soil could come to the
20 surface and people being exposed to it.

21 In this case, what this alternative does
22 is that if at the base of the excavation that sample
23 shows you're above either of these cleanup
24 standards, we would look to put some type of
25 institutional control on the property. What that

1 is, it's really an administrative tool to notify
2 people that there might be contamination there and
3 they should avoid it, should avoid coming in contact
4 with it or take some actions to minimize the
5 contact.

6 Examples are: One thing that the city
7 put in place is the tenant notification process
8 where the owners are required -- the landlord are
9 required to disclose sampling result information to
10 tenants. Another would be through the building
11 permit process where we would say if someone went to
12 apply for a building permit where it's going to be
13 excavating on the property, they would be notified
14 that there was a concentration at that depth and
15 they should avoid it or take some action to minimize
16 exposure to it.

17 Another is deed restriction where we
18 actually go to the individual property owner, seek
19 to get some type of notice put on their deed that
20 would say that they wouldn't dig on the property.

21 We don't know which ones we would put on
22 it. It may be a combination of all of these types
23 of things. It all depends on the number of
24 properties that eventually need these things before
25 we could figure out which type would be best suited

1 for the process.

2 MR. PAULSON: Sir?

3 UNIDENTIFIED SPEAKER: Would there be a
4 compensation to property owners if these
5 restrictions went on it --

6 MR. PRENDIVILLE: No.

7 UNIDENTIFIED SPEAKER: -- impairing the
8 value of their property?

9 MR. PRENDIVILLE: We have different
10 alternatives. That's just a couple alternatives
11 that have that.

12 Okay. Alternative 3A and 3B kind of get
13 at that issue, people not wanting these type of
14 things on their properties. In this case it's
15 similar, except when you get to the base of the
16 excavation and take that sample, if you're above
17 that 25 or 16, we would keep digging until we got a
18 sample that came back clean.

19 So in that case if you were able to dig
20 as deep as you needed to go to get everything out,
21 you wouldn't need the institutional controls in
22 place. We include that in these alternatives
23 because there may be situations where either someone
24 refused us access to dig and we believe we need to
25 dig on the property to be protective of future

1 owners, or it could be cases where the property --
2 it's just not possible to dig that deep on the
3 property.

4 These are some pretty old houses out
5 there, some pretty fragile foundations and they're
6 pretty narrow properties. In most cases it may be
7 difficult to get below a couple feet beneath the
8 surface. And if we're -- if we continue digging and
9 keep seeing concentrations going down to foundation,
10 you really risk some potential damage to the
11 property. So in those cases we might decide to dig
12 down a foot or two and just stop there to avoid any
13 additional damage to the property. It would be on a
14 case by case basis, determining when you would be
15 able to do that.

16 Yes, ma'am?

17 MS. GLAD: How do you determine what part
18 of the property the soil is removed?

19 MR. PRENDIVILLE: We have generally two
20 sample results from each property; a sample from the
21 front and the back. It's based on that one sample
22 result. If that sample from the front is high, we
23 would dig up the entire property. There are cases
24 where people might want to save a garden or
25 something, it's possible we could go in and do some

1 more localized sampling. But generally it's based
2 on that one sample.

3 MS. GLAD: I have a side yard that wasn't
4 sampled.

5 MR. PRENDIVILLE: How big is it?

6 MS. GLAD: A pretty large portion of the
7 yard.

8 MR. PRENDIVILLE: So you only have two
9 results?

10 MS. GLAD: Um-hum.

11 MR. PRENDIVILLE: We'll have to talk
12 about that. We are coming out to do some additional
13 sampling in a couple weeks. There are some
14 properties we didn't get access to the first time.
15 And if that's the situation, we can always come by
16 and sample it.

17 If you want to say your name, she would
18 prefer to get your name. The names are important
19 for the public comment part of this. So, do you
20 have a question, ma'am?

21 MS. GLAD: I name is Jullonne,
22 J-U-L-L-O-N-N-E. Glad, G-L-A-D.

23 My question is: Several of my neighbors
24 had -- were found to have high concentrations. In
25 fact, one of them is in the pink circle, 95 parts

1 per million, 60 to 95. I'm wondering, for the
2 property immediately adjacent to them it's showing
3 between 0 and 10 parts per million. And that's
4 confusing to me. And I'm wondering, you do
5 additional sampling then, rather than just the two
6 samples? Like if my neighbor Jerry Bell, for
7 instance, he had his entire lawn excavated because
8 he was one of the 60 to 95s. Are the people
9 immediately to the right or to the left of them, do
10 we have additional sampling, other than those two?

11 MR. PRENDIVILLE: We did that on a couple
12 properties and found -- in those cases it stopped
13 right at the edge -- the fence line, which gets back
14 to why we think some of this -- a lot of this might
15 be due from other sources, like people applying
16 stuff to their yards, and not all from the plant
17 site. It could be that the neighbor did some yard
18 work and replaced their dirt so that one is cleaner
19 than the one with the high levels. But we just have
20 no way of telling --

21 UNIDENTIFIED SPEAKER: You didn't do
22 additional sampling?

23 MR. PRENDIVILLE: We had 3,500
24 properties, sampling two samples per property. That
25 gives us a good way of determining the trends and

1 what may or may not be happening around here. So we
2 didn't need to go do the individual properties. It
3 shows us that there really is a scattered -- a
4 scattered distribution that's really high levels.
5 There's no predicting what's going to happen from
6 one property to the next.

7 UNIDENTIFIED SPEAKER: It seems rather
8 suspicious that you would have that level of
9 concentration immediately adjacent to 0 to 10.

10 MR. PRENDIVILLE: Right. That's been the
11 biggest issue on this project, is trying to figure
12 out why that is. We haven't been able to do that.

13 MR. PAULSON: You have another question,
14 if you want?

15 MS. HOLDEN: My name is Paula Holden.
16 And I was just wondering if there's any reason to
17 question the testing method, because on that chart
18 where you showed how it was so dispersed, there
19 weren't really patterns. I'm just wondering if
20 there's any reason to question the efficacy of the
21 testing method.

22 MR. PRENDIVILLE: We did studies of the
23 sampling methodology, compared results. We didn't
24 find any real big variability between samples. I
25 think we did some split samples. We also did some

1 statistical analysis sample results. It's all in
2 the repository. But we're confident in the results
3 we're getting from these properties.

4 Yes, ma'am.

5 MS. REIS: Just to follow up then. My
6 name is Martha. My last in Reis, that's R-E-I-S.

7 So if you're confident in your methods,
8 then I guess my question is: Doesn't your finding
9 suggest that there's some either unknown issue or
10 combination of factors at work that might apply? So
11 there may be people who live half a mile away and
12 scattered beyond and we won't know where until every
13 property is tested.

14 MR. PRENDIVILLE: That may be true, but
15 again, Superfund is limited to dealing with what may
16 be released from a specific source. So we can't go
17 out and just sample for general issues. That may be
18 another program that may or may not be out there.
19 But Superfund --

20 MS. REIS: But does it not raise a
21 sort of public safety issue that should at least be
22 on the public radar, that there's potentially a risk
23 for people, perhaps not only in this metropolitan
24 area, but wherever they have fill added or
25 fertilizers? It seems to me you may have come onto

1 something that deserves much more serious attention.

2 MR. PRENDIVILLE: That certainly might
3 be, but I can only address things in regards to the
4 Superfund program and what our limitations are.

5 MS. REIS: But given your concern for
6 public safety, doesn't it make sense for at least
7 the word -- the issue to be briefed more generally?

8 MR. PRENDIVILLE: That's beyond me. I
9 mean, that's -- high levels, people are certainly
10 aware of this. The agencies are aware of it and
11 that's -- that's not for me to decide that. I can
12 only talk to you about what this specific Superfund
13 project can address.

14 MS. REIS: Okay. So, but just -- my --

15 MR. PRENDIVILLE: That's certainly a
16 discussion that could be had with other people.

17 MS. REIS: Who would those other people
18 be?

19 MR. PRENDIVILLE: That's beyond the scope
20 of this specific meeting and this site cleaning.

21 MS. REIS: Okay. That's a good way to
22 keep the issue sort of under wraps and not attend to
23 it, you know, more generally, it seems to me. I
24 mean, if the concern of the EPA is public safety, I
25 would think you would at least want to release a

1 general statement that says, you know, people in
2 Minneapolis should know that there was no -- not
3 just the people who live right in the vicinity, but
4 to let everybody know, you know, that, you know,
5 maybe there's -- there could potentially be a
6 problem on your property.

7 MR. PRENDIVILLE: In regards to this
8 site, we've gone out and mailed stuff going out a
9 mile from this site to let people know what's going
10 on here. So in regards to this, we have stepped
11 outside the area we're dealing with. Again, that's
12 not -- I --

13 MS. REIS: I'm not saying the EPA --

14 MR. PRENDIVILLE: You can certainly raise
15 that to other agencies or other people within the
16 agency. I just can't tell you. Right now that is
17 not within the scope of this program to do that.

18 MS. REIS: Right. I understand it's not
19 within the scope, but I'm just speaking of somebody
20 who cares about the earth and my neighbors. So
21 that's my statement then for the record.

22 MR. PRENDIVILLE: Thank you.

23 Okay. Alternative 2C, it's the one we're
24 proposing. It's kind of a middle-of-the-road
25 between the alternative 2A and 2B and 3A and 3B.

1 Under this alternative we would go down,
2 dig down 12 inches on any property that had levels
3 above 25 parts per million. You would pull that
4 sample from the base excavation. Only if the result
5 was above 95 would we continue digging on the
6 property. And then if there were cases where we
7 couldn't dig deep to meet that 95 parts per million
8 standard or we didn't have access to the property,
9 we would again seek institutional controls on the
10 property.

11 And I'll talk at the end about why we
12 think 95 is an appropriate number to use in this
13 case. I just want to get through the overall
14 analysis, the alternatives against each other. But
15 I will get back to that. I'm sure there's questions
16 about why we're proposing that different number.

17 The way we decide what cleanup plan to
18 use is we're required to use -- evaluate each
19 alternative against nine criteria. And there's
20 three groups of criteria. I'll go through each of
21 the three groups.

22 The first group, overall protection,
23 cleaning out the environment in compliance with
24 applicable or relevant and appropriate requirements.
25 This is a threshold criteria. If an alternative

1 doesn't meet these requirements, you can't say it's
2 protective of human health and the environment. You
3 can't say it does -- if it doesn't meet the laws or
4 regulations that apply to the cleanup, they we can't
5 carry that forward for analysis. And you can't
6 select it as the final cleanup plan.

7 With that said, all the alternatives
8 we've considered meet that criteria. They all -- we
9 consider them all to be protective and they all meet
10 all the regulations that apply to it. Other than
11 the no action alternative, that doesn't meet these.
12 But again, we're required to carry that through,
13 regardless, as a baseline.

14 Where the things shake out with these
15 alternatives is in the balancing criteria. The
16 first criteria really gets at will this remedy
17 remain protective over the long-term? If you build
18 it will the levels stay protective or will somehow
19 they re-bound and become high again in the future?

20 The second alternative really gets at is
21 treatment part of the remedy? Congress has a
22 preference for us to actually destroy the
23 contaminates instead of moving them from one place
24 to other and having to manage them. In these case
25 none of the alternatives contain any real treatment

1 because it's not practical in this residential
2 scenario. So that wasn't included as part of it.
3 We did look at them, but it's really not practical
4 in this situation.

5 Short-term effect looks at what types of
6 risks are raised by actually carrying out this
7 cleanup? Do we increase some type of risk? Are we
8 -- is there a possibility of clouds of dust being
9 kicked off a property and contaminating adjacent
10 property while doing this? Is the truck traffic
11 going to cause risk to residents in the area? Can
12 we possibly damage properties as part of the
13 cleanup?

14 The next one, implementability, is can we
15 build this? Are there going to be administrative or
16 other issues that come up with actually carrying out
17 the cleanup plan down the road?

18 And the last one is cost. The dollar
19 amount that the remedy's actually going to cost.

20 MR. McCAULEY: Can I ask a question here?
21 In your --

22 MR. PRENDIVILLE: Can she have your name?

23 MR. McCAULEY: Steve McCauley,
24 M-C-C-A-U-L-E-Y.

25 Is there any effort to kind of put a cost

1 benefit analysis on, for instance, the \$18 million
2 that this is going to cost and the improvement in
3 health?

4 MR. PRENDIVILLE: There's no cost benefit
5 analysis. There's cost effectiveness as part of the
6 equation. The health issue, the whole risk
7 assessment is folded in though this whole thing, how
8 much risk reduction are you achieving through each
9 of the alternatives? That's part of this whole
10 evaluation, it's part of the long-term effectiveness
11 issue and the short-term effectiveness. There's
12 like -- they're all -- it's in there.

13 MR. McCAULEY: Okay. But there's never
14 an effort to, like, say \$18 million will buy this
15 much health improvement, but 18 million spent
16 another way -- I realize this isn't money that comes
17 from a general fund, it's money dedicated for this
18 purpose.

19 MR. PRENDIVILLE: We deal with that
20 through the risk, how much risk reduction are you
21 achieving through the alternatives. There's no
22 measure right now. The health, people -- arsenic is
23 a difficult thing to get at because the health
24 related issues are so generic that they may or may
25 not be caused by arsenic, it could be other issues.

1 But we -- the risk reduction is really what we're
2 looking at, it's kind of getting at it.

3 The modifying criteria. These are just
4 as important as the other ones, it's just that we
5 can't evaluate these until the comment period is
6 over. We have to get some idea of how you all feel
7 about these alternatives. We do take them into
8 consideration. Remedies can change based on public
9 comment. So if you have a question or concern,
10 please submit it to us and we'll certainly evaluate
11 that. As part of the record or decision there's a
12 responsiveness summary at the end of it which
13 responds to the comments that are submitted as part
14 of this whole discussion.

15 State acceptance is an equally important
16 criteria, especially in this case because it's going
17 to be the government paying for the cleanup out
18 here. And the law requires that the state pay for
19 10 percent of the cleanup if the federal government
20 is playing for it and if the state doesn't accept it
21 and doesn't agree to pay the 10 percent, then the
22 remedy doesn't go forward.

23 We have been cooperating, both agencies
24 have been working together throughout this whole
25 thing. We don't see any danger of that happening in

1 this case, but I want to let you know that's part of
2 the equation.

3 One thing, this table, it's in the post
4 plan, I want to point one thing about: This table,
5 it evaluates the alternatives against each criteria
6 and gives a grade to it, basically. There is no
7 criteria for the numbers in the law. What we
8 usually do is say it does meet the criteria, it
9 doesn't meet the criteria, it may meet the criteria.
10 We put numbers on it to give people a clear picture
11 of how we're thinking about this thing. But if
12 someone is looking for a grading scale in the
13 regulations law, it's not out there. I want to make
14 that clear.

15 I'm going to go through each of the
16 criteria and talk about how we felt things worked
17 out, but -- I'll go back. You'll notice that
18 several of these criteria, like the treatment
19 criteria, the compliance with applicable relevant
20 requirements, they all grade the same, so I'm not
21 really going to talk about those criteria. Just
22 talk about the ones that really play a role in how
23 we come to this proposal. And we can lump three of
24 these criteria under cost effectiveness. These
25 three play a major role in why we're proposing the

1 one we have. And implementability also places high
2 on our list.

3 Cost is the easiest one to look at.
4 Number 2A uses 25 parts per million for the cleanup
5 number. Number 2B uses 16 parts per million for the
6 cleanup number. So essentially you're looking at a
7 \$5 million difference going from 25 to 16. And that
8 holds true when you go from 3A to 3B, it's a \$5
9 million difference. 2C is in the middle; it's
10 almost \$18 million to do 2C. So you're -- what
11 we're talking about is a \$5 million difference in
12 the cleanup, if you wanted to go to 16 instead of
13 25.

14 I want to point out, again, that both 25
15 and 16 are at the upper end of our risk range. And
16 statistically, if you look at those numbers and the
17 risks you're talking about, it's really hard to tell
18 those risks apart. They're very close together. So
19 you have to decide whether it's cost effective to
20 go to -- try to get to that lower number at the cost
21 of \$5 million and the cost of the additional
22 short-term risk to the public in the area. And
23 that's really what is driving the proposal here.

24 That raises the short-term protectiveness
25 issues and the risk that are caused to the

1 surrounding neighborhood.

2 I think he wants to give the
3 presentation, which is fine with me.

4 We're talking about heavy trucks driving
5 down small residential streets, we're talking about
6 having to dig on narrow properties where older
7 properties are present. On a few of the
8 alternatives we are talking about having to dig as
9 deep as we need to go to get rid of everything out
10 there, and that presents risk to the public and
11 workers on the site.

12 So we think the difference in the risk
13 calculation for those numbers is kind of outweighed
14 by these risks of -- the short-term risks. In
15 addition -- well, just the number of properties
16 we're talking about, and I'll explain. If you go
17 down to 25, we're talking about 488 properties we
18 would have to go to dig up. That's sort of an
19 estimate because we still have some properties we
20 need to sample.

21 2B would be 631 properties. 3A and 3B
22 are 602 and 782. The difference in these numbers is
23 that we've already completed 160 some cleanups on
24 these removal properties. And we had taken those
25 samples from the base excavations. Some of those

1 results from those properties did show they're above
2 the cleanup standards in these alternatives. So we
3 would have to go back to those properties and either
4 seek to clean those up, we could sample those
5 properties to try to narrow down what area may need
6 to be cleaned up to reach these standards, or the
7 owner may not want us to dig and we could just
8 possibly have an institutional control placed on the
9 property. So that's the difference, the number of
10 properties you might have to go back to to address.

11 Part of the short-term effectiveness is
12 the length of time needed to complete the cleanups.
13 These are estimates. We haven't gotten through
14 design. We can't say exactly how long it's going to
15 take to get this done. But we think we can get all
16 488 under 2A and 2C done in four years. It would
17 take two more years if we wanted to go down to 16
18 parts per million to finish that work.

19 It's kind of optimistic, the four years.
20 To date I think removal is done about 60 properties
21 per year. We think we can put more crews on this
22 and try to get it done. But it's going to take a
23 lot of coordination with people, getting enough
24 access agreements signed and worked out to get that
25 done that quickly.

1 Yes, ma'am.

2 UNIDENTIFIED SPEAKER: Four years from
3 when? Like four years from the beginning of when
4 this is implemented?

5 MR. PRENDIVILLE: Yes, yes. So we're
6 hoping we can start next year, so it will take four
7 years from then. To get everything in place will
8 take four years. It's as fast as we can get there.
9 It's a lot to get done. A lot of the work that
10 needs to get done is actually getting people to sign
11 up to get the work done on their property. That's a
12 monumental effort when you're talking about 500
13 property owners. That's 500 people we got to sit
14 down at the table and have discussions with about
15 how the work is going to happen.

16 So -- another issue with the work out
17 here is trying to find places to put your -- put the
18 crews and put all the equipment to get this work
19 done. It's a pretty congested area. Finding empty
20 lots to store stuff is kind of difficult to do. So
21 we got to work all that out.

22 Long-term effectiveness and permanence.
23 On this we're kind of getting at the institution
24 control issue. If you leave a contamination above
25 the cleanup standard of the property, we would seek

1 to have an institutional control.

2 UNIDENTIFIED SPEAKER: What does that
3 mean?

4 MR. PRENDIVILLE: Put a notice on the
5 property saying there's levels of arsenic on the
6 property above our cleanup standard and people
7 should avoid digging into it and coming in contact
8 with it. There's different versions, I think I
9 explained before; there's deed restrictions, there's
10 notices to the permitting process.

11 UNIDENTIFIED SPEAKER: Okay.

12 MR. PRENDIVILLE: They're common at
13 Superfund sites. They can be difficult to implement
14 and they can be difficult to maintain. The problem
15 with putting a notice on a deed is properties change
16 hands and people can change the notice and get rid
17 of the notice willy-nilly. You try to get a legally
18 binding notice on a property to make sure it's not
19 changed, but they do take some work.

20 One thing I want to point out is that if
21 there are those -- if those controls are necessary
22 and if we are -- when we're done, if there are still
23 levels above our cleanup standard on the site, we
24 would be required to come back every five years and
25 re-evaluate whether those are effective in

1 protecting people. The only time we would talk away
2 and not have do that, it's called a five-year
3 review, is if we got rid of everything out there and
4 we were below the cleanup standard on every
5 property. Part of that assessment is we have to
6 evaluate the actual cleanup number. We have to
7 re-evaluate whether that cleanup number is still
8 protective every five years.

9 Under 2C, 3A and 3B, theoretically it
10 removes all the contamination above the cleanup
11 standards. Again, there could be situations where
12 we just can't dig, it's not possible to dig without
13 damaging -- significant damage to the structure,
14 people who just do not provide access to it. So
15 theoretically it gets rid of everything, but at
16 least under these alternatives the number of
17 properties that may require those are much smaller
18 than under 2A and 2B.

19 Implementability. Again, this is a -- as
20 the number of properties rises, the more difficult
21 it gets to get access agreements to people, the more
22 trouble you're going to wind up -- problems you're
23 going to run into on digging on properties. So,
24 it's just simple math. The more numbers of
25 properties you got to work with, the harder it is to

1 implement.

2 Okay. I want to get into why we think 95
3 is the appropriate number to use for the deep soil
4 and those alternatives as opposed to using the -- on
5 the other alternatives you would use 25 and keep
6 going down until you met 25. 95 was the number that
7 has been used for the removal action. It's based on
8 an acute level of what you might be exposed to in a
9 short-term, as opposed to a long-term.

10 First off, the samples we have from the
11 work we've done out there already, it's a small
12 number of properties that would have levels above
13 this. If this was air dispersion causing this
14 problem, you really shouldn't be seeing high levels
15 on a property unless you had high levels on the
16 surface to begin with. So we would only expect to
17 see this on properties that have removals done on
18 it. If you had 25 parts per million at the surface
19 you shouldn't be seeing 95 at depth. It's possible
20 that would happen. We don't expect it to happen.
21 So this should be limited to -- at this point
22 there's about 30 properties that have levels above
23 95.

24 Yes, ma'am.

25 MS. MEDIN: Hi. My name is Kim Medin.

1 My yard was done last year. The numbers were over
2 100. Front yard was done. How do I know if
3 underneath what was done is low enough so you're not
4 going to come back because it's over 95.

5 MR. PRENDIVILLE: They should have
6 provided you with the sample results. If they
7 didn't, let me know and I'll have Sonia get back to
8 you. I'll talk to everyone in this situation.
9 We'll have letters going out and I will sit down and
10 talk with everyone, talk about access, what we may
11 or may not do and what you prefer to have happen on
12 your property. So we're not going to do anything
13 until we talk with people.

14 MS. KNOBLAUCH: I'm Beth Knoblauch. And
15 I'm wondering about those who have 92 parts per
16 million versus 17 parts per million. So my property
17 is high, it's in the 70s.

18 MR. PRENDIVILLE: On the surface?

19 MS. KNOBLAUCH: Yeah. So I'm just
20 wondering about what this process is going to be
21 like as far as are we going to wait -- someone else
22 is going to be doing their property at 17 parts per
23 million?

24 MR. PRENDIVILLE: We have to get through
25 the design process, and the biggest thing that's

1 going to play into how the work is timed is where we
2 are provided access to the properties. What we
3 don't want to have happen is having crews hop all
4 over the place to do work because that will slow us
5 down significantly in getting this whole thing done.

6 We would prefer if we had huge parts of
7 this sampling area that had agreed to let the work
8 get done so we could have crews working in one area
9 for one period of time and then move to another
10 area. That's going to play a big part in it. We
11 just can't say at this point how that's all going to
12 play out.

13 MS. GUESNARD: My name is Sue Guesnard.
14 That's G-U-E-S-N-A-R-D. I would like to know how
15 deep were your samples?

16 MR. PRENDIVILLE: We go down underneath
17 the grass about three inches.

18 MS. GUESNARD: Just three inches?

19 MR. PRENDIVILLE: We did take -- we went
20 to several properties and did deeper sampling, we
21 took what's called Geoprobe. It pushes a rod going
22 down about eight, ten feet, taking a sample every
23 foot and analyze those. And we didn't -- what we
24 found is generally the contamination was limited to
25 the top two, three feet. We weren't seeing stuff

1 below that. But a lot of those samples were from
2 properties that had low levels from the surface. We
3 did sample from properties that had high levels.
4 There might have been one sample that was elevated
5 at depth, but for the most part it's pretty low when
6 you get down.

7 MR. PAULSON: Tim?

8 MS. MEDIN: One more question. Kim
9 Medin.

10 My neighbor's yard was also done last
11 year. His back yard was 95 and they told him last
12 year when they were doing the front yard that his
13 backyard needed to be over 97, so they didn't do it
14 at the same time. So he's kind of concerned,
15 wondering what's going on.

16 MR. PRENDIVILLE: I don't think it would
17 be 97. They would have had to have been above 95.

18 MS. MEDIN: His is 95.

19 MR. PRENDIVILLE: What they did is they
20 cleaned up the part that was above 95. If it was
21 between this 25 and 95 they didn't do that because
22 it's not part of the decision for that part of the
23 cleanup. They had to wait for this process. We're
24 going to have to go back to those properties and
25 address those that weren't cleaned up as part of

1 that.

2 MS. MEDIN: Okay.

3 MR. PRENDIVILLE: Yes, ma'am.

4 MS. GUESNARD: Again, we got a notice
5 they're testing children. Are children going to be
6 involved in the criteria about who's going to be
7 done first or last?

8 MR. PRENDIVILLE: That's been raised
9 before, and our thinking is that this is a pretty
10 mobile neighborhood and to predict when a house
11 might have children, might not have children, it's
12 hard to do; there's tenants moving in and out.
13 We're best off trying to deal with as many
14 properties as we can at one time to get through this
15 process as quick as we can. That's the best --
16 that's, you know, like I said, it's hard to predict
17 which house is going to have a child and which one
18 is not.

19 MR. McCAULEY: Steve McCauley. For
20 people who are concerned about the more immediate
21 threat who have young children, are there
22 recommendations that the EPA offers for how to sort
23 of, you know, reduce exposure? I mean, maintain
24 your grass well or things like that?

25 MR. PRENDIVILLE: Yeah, it's stuff like

1 that. We have been mailing out a fact sheet from
2 the Department of Health that explains basic things
3 you can do to avoid contamination. And there are
4 things that are recommended at sites in general of
5 how to avoid soil contamination. That's out there.
6 We have done that. We tried to do it on a twice a
7 year. I don't know if we've done one this year or
8 not. It is out there, we can -- it's on our web
9 page. If you go to our web page it's there, it's on
10 the state's web page.

11 Yes, ma'am.

12 MS. GLAD: Jullonne Glad. I would
13 recommend that perhaps if there is those kind of
14 intermediary preventions people can do, put that in
15 the local neighborhood newspapers. The *Corcoran*
16 *Neighborhood News* is really an affordable way to
17 notify people in the community.

18 MR. PRENDIVILLE: We think through
19 individual mailings to each house, I think that
20 effectively does the same thing as the newspaper.
21 We have put ads in newspapers throughout this
22 cleanup process. So we try to get this message out
23 as best we can. Word of mouth works good, too.

24 Yes, ma'am.

25 MS. BROAD: Debra Broad, B-R-O-A-D. On

1 that note, I have not been getting mailings. I have
2 gone to meetings. Tim, I spoke with you, I think
3 last summer. So I think her idea about putting it
4 in the *Corcoran Newsletter* is an excellent one. I
5 would like to see that happen. You know, that's
6 being delivered to every door. That is someplace
7 where people can access it. I've not been getting
8 mailings. I'm not happy about that.

9 MR. PRENDIVILLE: Mail is an issue in
10 this area. It's -- we try our best to get stuff out
11 there. We don't know whether the mailings are just
12 getting lost at the mail office or what, but we --
13 we do our best to update our mailing list when we
14 get the information. I don't know what happens once
15 it leaves our door and goes out to the public.

16 MS. GLAD: That's, again, what I would
17 recommend. It's like \$50 to run an ad in the
18 neighborhood newspaper. It's so cheap. It's a
19 great way to reach the community, it really is.

20 MR. PRENDIVILLE: Like I said, we have
21 put ads in all the papers like that. I think
22 *Corcoran* was one of them.

23 MR. PAULSON: I think so.

24 MR. PRENDIVILLE: Our information is put
25 out there.

1 MR. SCHIFF: Gary Schiff, S-C-H-I-F-F.
2 Tim, 2C appears to be, on page 9, the only option
3 that includes deep soil removal; is that correct?
4 Or is it just the only one that states it on this
5 table?

6 MR. PRENDIVILLE: 2C, 3A and 3B all
7 include deep soil excavations.

8 MR. SCHIFF: Okay. It's just worded
9 differently for some reason.

10 MR. PRENDIVILLE: I guess.

11 MR. SCHIFF: Thanks.

12 MR. PAULSON: Did you have a question?

13 MS. SIDORFSKY: Emily Sidorfsky.
14 S-I-D-O-R-F-S-K-Y. I'm actually one block off, I'm
15 on 36th Street, so I don't want to wait to the end
16 to ask you about that. It's kind of disturbing to
17 me that everyone was being dug up last summer.
18 We're one block away. Because I never got any
19 mailings or notices, my one-year-old last year was
20 ingesting -- because he was one, he was out there
21 eating dirt last spring. Should I be concerned
22 about that, considering how little his body is and
23 he was eating it?

24 MR. PRENDIVILLE: You should be
25 concerned, but it's not because -- because of the

1 contamination from this site. We're dealing with
2 what might be within the surface sample. But there
3 could be other things in your soil, even within this
4 circle, stuff that we aren't testing for he could be
5 exposed to by coming into contact from soil, such as
6 lead-based paint, bacteria, other stuff in the soil.
7 So I think it's a concern for any parent anywhere in
8 the country that their kid is getting dirt into
9 their mouth.

10 MS. SIDORFSKY: Right. So can I speak to
11 that? My second question? Now or later? About,
12 you know, are you going to expand it at all, like --

13 MR. PRENDIVILLE: No, I think we decided
14 that we determined we identified the area that may
15 have been impacted by this plant site and there's no
16 plans to step outside this area.

17 MS. SIDORFSKY: Do you recommend that we
18 just get tested on our own?

19 MR. PRENDIVILLE: It's an individual
20 decision. We have instructions on how to do it on
21 our web page, it's there. You can always call me, I
22 can e-mail it to you, too. There are a lot of
23 people out there like you that have called and we
24 sent that to them. So it's certainly an option for
25 you. It costs about 30 to 75 bucks to get a sample

1 analyzed. The thing I got to point out is that if
2 you do find high levels, the EPA can't step in and
3 clean it up because it wouldn't be a part of the
4 Superfund.

5 MS. SIDORFSKY: Right. I want a brief
6 comment, too, like the one that was made earlier, it
7 does concern me that I'm an informed person, I read
8 things, I watch the news. I was not aware of this
9 whole situation. If I'd known, I would not -- I
10 would have been, like, absolutely not let him eat
11 any dirt.

12 But, you know, it just concerned me, like
13 go for a walk, there's our neighbor's lawn is being
14 dug up. That's how we found out about this. So I
15 do think there is a lack of communication from the
16 EPA.

17 MR. PRENDIVILLE: We're befuddled by
18 that. We've tried every way we can to get the word
19 out there; the mailings, the newspaper. It's been
20 on television. We've been out here having meetings.
21 So I don't know what else to do at this point to let
22 people know.

23 MS. SIDORFSKY: Well, when you're one
24 block off, I wasn't getting the official mailings.

25 MR. PRENDIVILLE: But we've sent mailings

1 going out a mile instead of a three-quarter mile.
2 All the fact sheets you have tonight went out to
3 10,000 people, not just the 3,500 that we sampled.
4 So, I don't know what to tell you. Again, unless
5 the address is wrong in the database that we have,
6 and that's really hard for us to verify 10,000
7 mailing addresses.

8 And I know for certain even when we're
9 sending out access agreements to people, we can
10 query the county's tax data base, the owner of the
11 property, we write the letter, send it out, it comes
12 back, tells us the address is wrong, the person no
13 longer lives there. So in between the time we
14 created the data base, the property was sold and is
15 owned by someone else. So it's really hard to do
16 the stuff. We try our best we can. All I can tell
17 you is if you're not getting it, let us know so we
18 can make sure it's on the data base.

19 MR. PAULSON: Tim, we had three
20 questions. The lady, the gentleman, and then the
21 gentleman. Please. Ma'am, you're first.

22 MS. NOLAN: My name is Katie Nolan.
23 N-O-L-A-N. I was just wondering, I can't remember
24 how you said the background level was determined,
25 but if there is any idea of what the general

1 Minneapolis area is like? You know, I mean, you
2 were talking about how the -- you know, different
3 kinds of contamination can come from different
4 places. And you know, is there a possibility that
5 by coincidence this area got sampled and is showing
6 things that could be found other places?

7 MR. PRENDIVILLE: Do you guys have
8 background information to other parts of this state?
9 Bob Anderson with the state. Do you have background
10 information?

11 MR. ANDERSON: Bob Anderson. There's
12 some data bases -- not data bases, but maps and
13 things like this. There's information on state
14 averages. I think that's based on county by county
15 sampling. I think they just -- USGS study, that
16 went across the country. So that's just about
17 anywhere, there are places that have background
18 levels that are higher than the cleanup.

19 MS. NOLAN: Well, I was wondering more
20 about kind of the more immediate area, just for --

21 MR. PRENDIVILLE: We haven't sampled
22 outside, like I said. We don't have plans to go
23 outside this area.

24 MS. NOLAN: But there's no data from
25 other agencies on that sort of thing?

1 MR. PRENDIVILLE: I haven't seen anything
2 from Minneapolis. Like Bob said, there's stuff from
3 the state in general.

4 MR. ANDERSON: It's that naturally
5 occurring. It is everywhere, pretty much, and
6 higher levels in a lot of areas.

7 MS. NOLAN: Is there a place that you can
8 see that information or --

9 MR. PENA: There's a USGS study --

10 MR. PAULSON: You have to talk a little
11 bit louder, sir.

12 MR. PENA: There's a USGS study that has
13 what was done for Minnesota with a sample where they
14 sample every county and then they put a map up to
15 show it. It's one of the health conservations for
16 the state. Okay.

17 MS. GLAD: Can I piggyback on her
18 question? It's related.

19 MR. PRENDIVILLE: Go ahead.

20 MS. GLAD: My question is if you look at
21 the slide, I think it's slide 7, the summary of
22 properties per concentration range, where you had it
23 broken down greater than or equal to, blah, blah,
24 blah. Using those numbers, the median, which I
25 would think as being the baseline, the median would

1 be 5 parts per million. I'm wondering how you got
2 to 16 parts per million as opposed to 5?

3 MR. PRENDIVILLE: We looked at the
4 distribution of arsenic concentrations. And I'm not
5 a statistician, so it's hard for me. But basically
6 they had a curve -- they took all the data and
7 produced a curve that looked something like this.
8 And -- but this type -- I forget the type of
9 analysis. It's a cumulative distribution, I think.
10 And what it shows is there's two distinct
11 populations of data.

12 You have this section of the curve that
13 shows one population, which might be -- might be
14 background concentrations, then you have another
15 section of the concentrations that look like it's
16 affected by the plant site. So basically we're
17 saying that background levels is where this curve
18 changes direction and that's --

19 MS. GLAD: I've had lots of statistics
20 classes and I take issue with that a little bit. It
21 would be interesting to see that data.

22 MR. PRENDIVILLE: It's in the record,
23 it's in the remedial investigation report that's in
24 the repositories, it's online. Certainly, feel free
25 to submit your comments and take a look at it. But

1 it's the best we can do to come up with the
2 background concentration, especially when you have
3 all these other mitigating factors of arsenic in the
4 area. It's really difficult to get in that
5 situation.

6 MS. GLAD: What is the name of that
7 document?

8 MR. PRENDIVILLE: Remedial investigation
9 report.

10 MR. PAULSON: Did you get to the
11 gentleman's questions?

12 MR. McCAULEY: Quick question. I think,
13 as I remember, my levels are about 30. And I'm
14 actually interested in not having my yard excavated.
15 So if I were to take an independent sample and it
16 came out lower, is there any way to get a
17 re-sampling or re-official --

18 MR. PRENDIVILLE: We are confident in our
19 sample results. We have to make our decisions on
20 data that's gathered through a specific quality,
21 using certain quality of data. So we have to have
22 what's called a quality assurance project plan in
23 place. So accepting your data wouldn't be
24 appropriate. We need to use our data to make the
25 decision.

1 I got like three slides to get through on
2 this.

3 MR. PAULSON: Could you answer the last
4 question? Sir.

5 MR. GEISINGER: Maybe it would be better
6 if I just let you go ahead and finish up.

7 MR. PAULSON: Thank you, sir.

8 MR. PRENDIVILLE: Back to why we think 95
9 should be used for the deeper soil here, not the
10 shallow stuff. The people who are really going to
11 be exposed to the deep contamination, below a foot,
12 would be construction workers, they're the ones out
13 there digging foundations, putting in sewer lines,
14 gas lines and whatnot. And through our risk
15 assessment we show they could be exposed to levels
16 as high as 261 parts per million and still be
17 protected.

18 But we went a step further and said there
19 may be situations where an individual goes and puts
20 a fence post in. They're going to dig that fence
21 post and while they're digging it they might be
22 exposed to that contamination, but after that
23 they're going to be roaming around the rest of the
24 yard. So it's going to, again, be an average
25 concentration over the area.

1 So we think we should try to protect
2 people against what they might be exposed to while
3 they're actually doing that work, and we think that
4 95 parts per million would be an appropriate number
5 to use to protect against that.

6 I forgot to mention one thing. When we
7 do these cleanups, when we're done with digging,
8 what we'll do is we'll put down -- we call it -- I
9 think it's the next slide, but we do put down a --
10 we put down a high visibility barrier. Basically
11 it's just an orange snow fence. It allows water to
12 get through, but if someone were to dig in the
13 property and they got down to that foot, they'd run
14 into this thing and they would realize, hey, wait a
15 minute, EPA was here, they did some work on the
16 property, perhaps we should not dig any more or take
17 precautions to minimize contact with the soil. So
18 they will be aware there's something beneath that
19 surface.

20 So that's one thing that mitigates
21 whatever risk there might be to what's below there.
22 And I think -- we still need to work this out, but I
23 think we would put that down if there's anything
24 above 25 beneath the surface, that would be in
25 place.

1 The other thing is when someone were to
2 go dig below that depth, they have to get through a
3 foot of clean dirt on the property before they got
4 to the contaminated stuff. And that would -- common
5 sense is going to say that's going to be mixed
6 together with the clean stuff and through dilution
7 the concentration is going to decrease that they
8 might be exposed to. And again, the only properties
9 we're likely to find levels above that 95 or where
10 the surface soils were above 95, those are the
11 removal properties.

12 So this really, we think, is going to be
13 limited to the 30 properties where removal is going
14 to be done. There might be a few other properties.
15 So it's going to be that small universe of
16 properties where we may have something above 95 that
17 will be left in place. Tom?

18 MR. FRAME: Tom Frame. With the cleanup
19 goal down to 95 to dig, what's the frequency of the
20 excavation? Doing the first 12 inches, you're still
21 above 95, how much additional do you dig out before
22 you sample it again?

23 MR. PRENDIVILLE: That hasn't been worked
24 out, but basically it's a function of what equipment
25 you're using to dig it up. If you're using big

1 equipment, it's basic 6 or 12 inches that come out
2 at a time. If you're hand digging you can do less
3 -- shorter intervals in the soil.

4 So, that's basically it. We think that
5 on the basis of the weight of weighing all these
6 criteria, each alternative against these criteria,
7 we think that 2C is the most appropriate to use. We
8 think that the risk reduction you achieve between 25
9 and 16 isn't significant to overcome the cost, just
10 the cost in dollar figures, the cost in increased
11 short-term risk to the people and the
12 implementability issue of whether you could get
13 everything out and how hard it would be to put
14 institutional controls on all of the properties you
15 would have to if you use those lower levels in
16 cleaning this stuff up.

17 MR. McCAULEY: Can I make a quick comment
18 also? The difference would also be the properties
19 with higher levels would take longer to get to?

20 MR. PRENDIVILLE: Right. And in summary,
21 this is it, we would go in -- I didn't mention that
22 in garden areas we do dig down 18 inches instead of
23 12 because in garden areas people may tend to dig
24 deeper in their planting material. So if you have a
25 garden, we'll go down 18 inches instead of the 12.

1 We will continue digging, if anything is above 95,
2 below a foot. The material then is shipped off to
3 an off-site landfill for disposal.

4 Only if necessary would we have to put
5 institutional controls on a property. Because once
6 we determine we've either met the shallow soil or we
7 found there were high levels at depth and we cleaned
8 it up to 95, if we're below 95 at depth we can say
9 we met the cleanup standard and institutional
10 controls wouldn't be necessary.

11 We're estimating it would take four years
12 to complete and about \$18 million to --

13 MR. NOVAK: Tim, that lady with a
14 question.

15 MS. GUESNARD: How do you determine where
16 the gardens will be? I purchased my home and found
17 out about this like two weeks later. So there's no
18 gardens because I haven't done anything in two years
19 because of this. So I would like to garden the
20 majority of my yard and I'm wondering, what would
21 you do?

22 MR. PRENDIVILLE: We would have to sit
23 down with you about getting access.

24 MS. GUESNARD: So would that happen?

25 MR. PRENDIVILLE: Getting down 18? Yeah,

1 I guess I haven't really thought that all through.
2 We're going to have to deal with it.

3 Okay. So we're here tonight to get your
4 comments. You can mail your comments in to us.
5 We'll consider those comments. We hope to get the
6 record decision -- the final decision done this
7 summer, hopefully end of August, maximum by the end
8 of September it needs to get done. We will start
9 the design -- actually, we have stuff for getting
10 contracts in place to get the design started.

11 We, obviously, can't do the design until
12 we know what the final cleanup plan is, but we'll
13 get that done this fall and winter. We need to get
14 to headquarters to request funding for this work by
15 October of this year. It's possible if we miss that
16 we could go to them in the spring. But we're much
17 better off getting to them in October. And then if
18 we get all that done and get all that access
19 agreements work done with people and we could start
20 this work in the spring or summer of next year.

21 And the public comment period is 30 days.
22 It ends midnight July 1st. So anybody that's up
23 late with e-mail can get us that stuff on July 1st.

24 You can -- Cheryl Allen is the primary
25 contact for collecting all these comments. You can

1 mail them in snail mail, you can e-mail it to her,
2 you can fax it to her. We have a web page with --
3 there's a mail box on there where you can write your
4 comments and they will submit them to us. If you
5 forget to mail it to her, if you send it to me, it
6 will still be considered a comment. You can send it
7 to Bob, send it to EPA. It's a public comment if
8 it's submitted during that time period.

9 That's all I have to say.

10 MR. PAULSON: We'll start with the
11 gentleman up front.

12 MR. GEISINGER: My name is Dennis
13 Geisinger, G-E-I-S-I-N-G-E-R, and I'm here
14 representing the *Southside Pride* community
15 newspaper. And I think I asked this at the last
16 meeting we had. I think I asked Cheryl about this.
17 But I thought it was important enough I should ask
18 again. Since this arsenic has been around in the
19 neighborhoods for about 70, 75 years, something like
20 that, has there been any attempt or will there be
21 any attempt by the EPA or the state or the county or
22 anybody to try to determine if there's been an
23 elevated level of cancer or other diseases
24 associated in the area here?

25 MR. PRENDIVILLE: The state is embarking

1 on a health study and they can probably speak to it
2 better than I can.

3 MS. MESSING: I'm Rita Messing from the
4 health department. We have a health consultation
5 and we -- Dan knows more about this because he wrote
6 it, but it has some data on cancer occurrence in
7 this area. And if I'm remembering correctly, there
8 were no elevations in cancers that could be
9 attributed to arsenic exposures, but there were some
10 elevated levels of some cancers. There were lower
11 levels of other cancers, which is kind of what you
12 would expect if you're looking at our discrete area
13 because if you have an average, some people have to
14 be above and some people have to be below.

15 So do you want to comment on that a
16 little more?

17 MR. PENA: The other challenges are the
18 base is such that it's not very reliable because the
19 way the data is collected, it's reported based upon
20 the death certificates and sometimes the death
21 certificates are not accurate. In addition, you
22 know, somebody can move here from someplace else
23 where they were -- actually acquired some exposure
24 to something or their lifestyle, and they show up
25 here and then they get diagnosed as cancer -- having

1 cancer here.

2 MS. MESSING: So just to modify just a
3 little bit what Dan said, it's actually based on
4 where you were living or where the person is living
5 when the cancer is diagnosed, rather than on death.
6 But perfectly right, that it's where the cancer was
7 diagnosed. And all these cancers have long latency
8 periods, so you don't know where there might have
9 been a relevant exposure.

10 The second question about the health
11 study, there is a biomonitoring study that is going
12 to be starting very, very soon and the idea is to
13 measure arsenic levels in urine in 100 children in
14 this neighborhood. And that will be happening in
15 the next few months and there will be -- it will be
16 arsenic levels in children living on properties
17 above 20 parts per million.

18 MR. GEISINGER: What is the answer? That
19 it can be attributed to arsenic exposure?

20 MS. MESSING: Bladder cancer, some lung
21 cancers, skin cancers would be the main ones.

22 MR. PENA: There is clinical evidence of
23 long-term exposure that shows up before that. Those
24 would be very visible, they're -- it's called
25 hyperpigmentation, where they get individuals -- we

1 know this from people being exposed to the arsenic
2 in their drinking water in India and other places
3 around the world, they get very large what appear to
4 be like freckles on their torso, that's the
5 hyperpigmentation, and the hyperkeratosis, those are
6 the preliminary clinical signs of chronic exposure,
7 is their hands and feet develop very thick
8 callouses.

9 MS. MESSING: Those are people drinking
10 really high quantities of arsenic in their drinking
11 water.

12 MR. GEISINGER: What about other
13 ailments? I understand there are some reproductive
14 problems associated with arsenic.

15 MS. MESSING: I think the main effects,
16 other than cancer, are neurological effects and
17 cardiovascular effects. There is some evidence that
18 is as yet -- somewhat more uncertain about
19 developmental and reproductive effect.

20 MR. GEISINGER: But as far as the studies
21 that have been done about incidents of disease or
22 illness in the area concerned, there's been no
23 elevated levels or anything unusual?

24 MS. MESSING: Well, the only disease that
25 the health department surveils that is, you know,

1 that's relevant is cancer. So I couldn't tell you
2 what the cardiovascular risk really is, for
3 instance.

4 MR. PAULSON: Ma'am, you have a question?
5 The lady.

6 MS. GUESNARD: Why is that test using
7 urine and not hair samples? I thought hair samples
8 were more accurate.

9 MS. MESSING: It's a little difficult for
10 me to answer because I'm not the person who designed
11 it. But the main reason was that it's easier to
12 evaluate urine samples. And there's -- first of
13 all, there's a budgetary issue. It was discussed
14 whether we do both, and it was decided that we
15 couldn't. The urine is there -- there are clearer
16 bench marks for what a high urine level is than
17 there is for hair. And hair, sometimes people don't
18 like to give up enough hair, and hair has different
19 qualities.

20 So, for instance, thick hair is more
21 likely to have high levels of arsenic than thin
22 hair. Hair color matters. There aren't any real
23 standard protocols for measuring arsenic in hair.
24 So should you wash the hair first or not wash it?
25 And if you wash it, what would the protocol for

1 washing the hair be? How many rinses? You know,
2 things like that. So it just got to be -- it was
3 determined by the people who designed it that it was
4 just -- it was just better to measure urine.

5 MR. PAULSON: Any other questions?

6 MS. ADELSMAN: A comment?

7 MR. PAULSON: Well, we'll get to the
8 comments in just a second. This is a real short
9 question and answer period, then we'll take
10 comments.

11 MS. ADELSMAN: I have a question. In
12 2004 the Department of Health published a health
13 consultation with ATSDR that said that 30 parts per
14 million was an imminent and substantial threat to
15 public health, but then in a document that was
16 published in 2006 they reversed it to say that 95
17 parts per million was a level that was protective of
18 public health. Why did that number change?

19 MS. MESSING: Dan and I are looking at
20 each other. We don't recall ever making a statement
21 that 30 parts per million is an imminent and
22 substantial -- I don't remember what you said, risk
23 or problem or whatever.

24 MS. ADELSMAN: It was a quote from ATSDR,
25 from the health consultation.

1 MS. MESSING: You'll have to show it to
2 us. We don't remember that statement. And Dan
3 wrote that consultation.

4 MS. ADELSMAN: The ATSDR.

5 MS. MESSING: It was published by ATSDR?

6 MR. PAULSON: Do you have a date on that,
7 ma'am?

8 MS. ADELSMAN: Yes. It was a letter that
9 was written for public funding.

10 MS. MESSING: I remember that letter.

11 MR. PAULSON: Your name?

12 MS. ADELSMAN: Heidi Adelsman.

13 MS. MESSING: What the letter said was we
14 thought 30 parts per million would be a protective
15 cleanup level --

16 MS. ADELSMAN: Well, the letter said --

17 MS. MESSING: -- in that letter. Now EPA
18 is proposing 25 parts per million. So that's what
19 -- that's what I remember saying in that letter.

20 MS. ADELSMAN: It was a statement, is the
21 way I understood it.

22 MS. MESSING: It was a statement. It was
23 signed by Mark Johnson of ATSDR and myself.

24 MR. PAULSON: The lady up front.

25 MS. ESPINOZA: Rita, I think I might have

1 asked you about that for one of the stories that I
2 was working on, and you told me it was a
3 typographical error.

4 MS. MESSING: No, I don't think I said it
5 was a typographical error. I just didn't remember
6 it being in the letter. And I looked up the letter
7 and there it is, and it is in the letter. I don't
8 think it's a typo.

9 MS. ESPINOZA: I brought it into the
10 office and I showed it to you, it did say imminent
11 health. And I sat down with you and with --

12 MS. MESSING: Okay. Well, I don't -- I
13 really don't remember that.

14 MR. PRENDIVILLE: I think one of the
15 important things to remember --

16 MR. PAULSON: May I have your name,
17 ma'am?

18 MS. ESPINOZA: My name is Amoar Espinoza.

19 MR. PRENDIVILLE: All that was done for
20 the dual process and they don't have the luxury of
21 having all the site specific risk assessment
22 information we have for this remedial process. So
23 they're making a decision based off the best
24 informing available at the time.

25 MS. MESSING: That letter was written to

1 get the removal started, and in order to get that
2 removal started we we had to make a statement about
3 imminent, etcetera. But I don't think that
4 statement applied to 30 parts per million. What I
5 remember is the 30 parts per million was in there as
6 something that could be considered as an appropriate
7 cleanup.

8 MR. PAULSON: Just a moment, please.

9 Please.

10 MS. ESPINOZA: First name is spelled
11 A-M-O-A-R and my last name E-S-P-I-N-O-Z-A.

12 MR. PAULSON: Okay. I'm sorry for the
13 intrusion.

14 MS. MESSING: That's okay. I'm finished.

15 MR. PAULSON: Okay. The gentleman and
16 then the lady.

17 MR. SCHIFF: Gary Schiff. S-C-H-I-F-F.
18 If 16 is the background and you're advocating for
19 cleanup to 25, if I calculate this right from the
20 chart on page 4, there's about 130 properties then
21 left in a gap between background and the level of
22 cleanup that is being advocated. It seems that
23 you're only doing four-fifths of a cleanup job.
24 Given the amount of money being spent, why not clean
25 all the remaining properties and that would allow

1 this area to be cleaned up to background levels.

2 MR. PRENDIVILLE: Is that a question or a
3 comment? I think my --

4 MR. SCHIFF: It's a question because I
5 would like to know your answer.

6 MR. PRENDIVILLE: I think my whole
7 discussion tonight was making our case for why we
8 think 25 is more appropriate than 60. I think it's
9 a weighing all those different criteria against each
10 other with all these alternatives and we think that
11 the difference in risk is small, it may not even
12 exist because of all the assumptions that are used
13 in the risk assessment, that the cost of that
14 decrease in -- that risk reduction weighed against
15 the short term risk that you're incurring,
16 implementability issues, I think all weighs in favor
17 of 25 parts per million as the cleanup standard.

18 MR. SCHIFF: By implement, when you're
19 measuring implementing you're just talking about
20 what's faster to do?

21 MR. PRENDIVILLE: No, you're -- again,
22 you're going to wind up, if you're saying we should
23 dig up everything above 25, take it down as far as
24 we can, there are going to be questions about
25 whether you can get on all these properties and

1 actually dig down that deep. So you're going to be
2 left with institutional controls on all these
3 properties and you're going to be doing that to
4 properties where you don't necessarily need to do
5 that to achieve an acceptable risk.

6 MR. SCHIFF: Just seems an automatic bias
7 in your weighting, that the more thorough the
8 cleanup job, the more difficult to implement, thus
9 the less points it's going to be awarded.

10 MR. PRENDIVILLE: There's absolutely no
11 bias. All these alternatives were weighed against
12 each other and we came up with what we thought was
13 the most effective.

14 MR. PAULSON: The lady and then you, sir.

15 MS. ADELSMAN: Heidi Adelsman. I believe
16 Smiley's Clinic and the parking lot was cleaned up
17 to 20 parts per million by the Minnesota Department
18 of Agriculture. Why was a commercial site cleaned
19 up to a lower level than what we're talking about
20 cleaning up residential yards?

21 MR. ANDERSON: Bob Anderson, Department
22 of Agriculture. The cleanup on the site was
23 primarily done to protect the groundwater, so it was
24 based on that.

25 MS. ADELSMAN: But nobody drinks the

1 groundwater.

2 MR. ANDERSON: It will protect the
3 groundwater whether anyone is drinking it or not.

4 MR. PAULSON: Sir.

5 MR. JACOBSON: My name is Allen Jacobson.

6 MR. PAULSON: Speak louder, sir.

7 MR. JACOBSON: Allen, A-L-L-E-N.
8 Jacobson, S-O-N. I was just wondering, for someone
9 whose house scores below these levels and wants it
10 excavated and is willing to sign whatever, is that a
11 possibility?

12 MR. PRENDIVILLE: You would have to pay
13 for the cleanup yourself. We couldn't pay for the
14 cleanup.

15 MR. JACOBSON: Okay.

16 MR. PAULSON: Yes, ma'am.

17 MS. CLOUD: Karen Cloud. I have a
18 question based on what you just said. Are you
19 saying the groundwater over at Smiley's Clinic, how
20 is that distinct from the groundwater all over?

21 MR. ANDERSON: That's where the release
22 happened and that's where the groundwater is
23 contaminated. The groundwater contamination pool
24 was cleaned -- tied to the site itself, where the
25 deepest excavation was done, and about, if I

1 remember right, about a block or two off site. So
2 that is where the groundwater is contaminated, so
3 that's why we tried to protect that area more.

4 MS. CLOUD: Well, that wasn't my main
5 question. I guess I could ask him about that. One
6 of the things that we've just established in this
7 neighborhood is the need to look at cumulative
8 health impact when we're looking at issues of
9 environmental health, just establish that as state
10 law.

11 I believe that what we're doing here with
12 this, the risk I think is very single -- single
13 focused, right? Only on arsenic? So when we try to
14 understand what the health impact is, or how risky
15 it is--I think this is something we talked about a
16 little bit--we're only talking about in relationship
17 to arsenic; is that right? Because of the
18 relationship to the source?

19 MR. PRENDIVILLE: Right.

20 MS. CLOUD: But to really talk about --
21 to -- I guess to the public, you know, when we talk
22 about risk, it seems to me in the interest of full
23 disclosure we ought to say this is what we know from
24 one single -- what we suspect, I guess, from one
25 single contaminant, rather than we know that that

1 arsenic, on top of the childhood lead poisoning, on
2 top of the other issues.

3 And I would say that we do have data from
4 the Minnesota Department of Health that does
5 establish health disparities in this neighborhood.
6 Not by address, because that hasn't clearly been
7 done, but we do know by communities, by communities
8 of color. So we have very many American Indian
9 people with disproportional diabetes,
10 cardiovascular, other kinds of issues, and across
11 all the different communities of color in this area,
12 indigenous people.

13 So I guess I just want to say as we go
14 down the road to understanding what we need to do
15 for public health, isn't it important that we always
16 point out that we're not really for sure about this
17 because we're only taking one single contaminant
18 here, and cumulative health impact is really -- most
19 of us need to know for our families, really.

20 MR. PRENDIVILLE: I think that's been
21 tried to get at with that mailing of how to avoid
22 soil contamination to everyone. That handout is not
23 specific to arsenic from this site. It's general to
24 any contaminant in the soil. It explains how to
25 avoid that contamination, minimize your risk.

1
2 MS. GLAD: I think maybe what she's
3 saying, and I don't know that it's quite as clear,
4 even though Karen was very eloquent, it's that when
5 you reference when you norm something as far as the
6 risk exposure 1 in 10,000, 5 in 10,000, that's being
7 normed a reference upon a healthy person, not with
8 existing conditions. Is that being referenced on a
9 population of people who are already dealing with a
10 lot of other issues, such as exposure to excessive
11 pollution, particulate matter, traffic, or for lead
12 contamination or from asthma, things like that? Is
13 it referenced to be people who are in very good
14 health to begin with, or is it referenced on people
15 who live in this community?

16 MR. PRENDIVILLE: Let's let the risk
17 people explain that.

18 MS. MESSING: That's -- what it is is an
19 incremental cancer risk. It's an upper boundary
20 estimate of the cancer risk. So the risk to anyone
21 is unlikely to be above that risk level. And that
22 would include the risk to people who may be
23 sensitive in the population.

24 It's not really normed against anything.
25 It's a calculated number that is extrapolated from,

1 in this case, from people in Taiwan who were exposed
2 to contaminated drinking water. And one makes
3 certain assumptions about how much water those
4 people drank and what the actual level of arsenic
5 was in the water, which is some uncertainty there,
6 and then you extrapolate curves based on the
7 responsive information that you have and you
8 calculate on certainty around each of those points.
9 And you calculate an up or down risk using --
10 assuming that people actually drink less water than
11 they probably did, so that the risk would be higher.
12 And, you know, you make certain assumptions like
13 that. So it's a conservative estimate of cancer
14 potential from arsenic.

15 Now, there are -- you could derive an
16 even more conservative estimate. There are many
17 different ways of doing these things, but it's
18 generally considered to be a conservative estimate
19 of cancer risk, conservative meaning it's likely to
20 overestimate when EPA estimated exposures that
21 people were likely to have from the soil. They also
22 overestimated those exposures. They try to not
23 underestimate them. So they used high estimates of
24 soil exposure, you combine those two together and
25 that's how they come up with their upper bound risk

1 numbers.

2 MR. PAULSON: The gentleman had a
3 question.

4 MR. VanderVEEN: Doug VanderVeen. Last
5 name, V-A-N-D-E-R-V-E-E-N. My neighbor had soil
6 above 100 parts per million and was excavated. My
7 yard is at 23. And what that tells me is that
8 somewhere from my lot line, you know, on the one
9 side of the house by him and, you know, my lot line
10 on my other side of the house, I'm at nearly 100,
11 you know, compared to the other side of the yard
12 because you take samples from the four corners and
13 the middle of the front yard.

14 So I don't know how anybody could
15 convince me that at the fence line it's not 100
16 parts per million. And I have a three-year-old at
17 home, plays in the yard all the time, plays where he
18 decides to play in the yard and I'm left to -- how
19 am I supposed to handle this? Is there a
20 possibility to get my yard re-sampled to see if it
21 is just two more parts per million up there to get
22 redone? And because -- and what's the accuracy of
23 your measurement; 23 plus or minus what?

24 MR. PRENDIVILLE: Plus or minus. We're
25 confident that there was an analysis like that done,

1 it's in the remedial investigation report. We are
2 confident in our results. What we're trying to deal
3 with is an average exposure across your property.
4 There's no way to sample every spec of dirt on a
5 property. At some point you got to say how many
6 samples are needed to make a decision on a section
7 of property?

8 So we're concerned about you or your
9 child playing across the entire front yard, making a
10 decision based on that, their average exposure. So,
11 and again, that 25 is an overestimation of the risk.
12 Real risk is probably exposed to much higher levels.
13 So we're not -- we have no plans to re-sample
14 properties that we already have results like that
15 on.

16 MR. VanderVEEN: If I sample next to my
17 fence line and it's at 100 like my neighbor's, my
18 yard has 100 and, therefore, needs to be cleaned?

19 MR. PRENDIVILLE: We're making decisions
20 on your average exposure on your property, not just
21 on your fence line.

22 MR. VanderVEEN: By your own statement
23 100 says that's imminent threat --

24 MR. PRENDIVILLE: On an exposure --

25 MR. VanderVEEN: -- needs to be cleaned.

1 MR. PRENDIVILLE: Exposure area, not just
2 the specific site. We're taking five things, mixing
3 them together. There might be a high spot there, a
4 high spot there. But on average it's below the
5 cleanup standard.

6 MR. VanderVEEN: You're not going to
7 accept measurements done by an independent firm?

8 MR. PRENDIVILLE: No. We have to have a
9 specific quality assurance plan and approved work
10 plans.

11 MR. VanderVEEN: And I can't pay you to
12 have it re-sampled?

13 MR. PRENDIVILLE: No. We wouldn't ask a
14 resident to pay us to sample. We're not planning
15 it. We have no plans to re-sample. I think we're
16 confident in the results we have. There's always
17 some slight variability in the samples. But I think
18 you have to -- we have to live with what we have.

19 MR. PAULSON: The gentleman had a
20 question.

21 UNIDENTIFIED SPEAKER: More of a comment.
22 I also have a situation where I saw wide disparities
23 in the sampling in my neighborhood, from over 100 to
24 less than 20. And as you said, could be that what
25 explains it best is pesticide or herbicide use,

1 because people have have their yard and they would
2 have stopped right at the border, more or less. And
3 to me that seems the most logical. I mean,
4 obviously this wasn't airborne contribution from
5 three-quarters of a mile away to provide these kind
6 of disparities. There has to be something more
7 localized.

8 MR. PRENDIVILLE: We want to make clear,
9 we believe there's some low level contribution. But
10 the majority is from some other source.

11 Another thing to point out about
12 Superfund, there is an exclusion that says Superfund
13 cannot clean up from pesticides or fertilizers. So
14 if that is the case, we wouldn't be able to address
15 it. But because we can show there is something from
16 the plant site, we can take an action on this site.

17 MR. PRIME: Tom Prime. Tim, could you
18 describe again, in a little more detail, how you
19 sampled the front yards and backyards, so that
20 people understand that it's not just one point in
21 the yard that was sampled.

22 MR. PRENDIVILLE: It's actually five
23 locations. I'll draw it. Say you have a -- your
24 lot is like this and you have a house in the middle.
25 We would go out and take a soil sample from the five

1 corners and the middle and then do the same thing in
2 the backyard. What we would do is try to stay away
3 from like decks or other things because treated
4 lumber has been known to have arsenic in it.

5 So we try to stay away from that thing or
6 any other thing we might suspect of causing high
7 levels of arsenic in the yard. But then we take
8 each of those five samples and mix them up in a bag
9 and take a piece of that and take it to the
10 laboratory, that's how we get the average
11 concentration across the yard. We go underneath the
12 sod layer and take a little scoop about three inches
13 down and mix those altogether.

14 MR. PAULSON: The lady and then the
15 gentleman. Ma'am, did you have a question?

16 MS. GUESNARD: Mine was a comment.

17 MR. PAULSON: Sir.

18 MR. GORDON: Sam Gordon. And I'm sorry,
19 I came late. I have a couple questions. Could you
20 just briefly define what short-term effectiveness
21 is? It's a little hard for me because your criteria
22 doesn't have good definitions in these documents.
23 Short-term effectiveness.

24 MR. PRENDIVILLE: It's really the
25 short-term risks that are posed to workers or

1 residents in the area, if you're carrying out the
2 remedy. Things like, you know, truck traffic,
3 damage to properties, things like that, where you're
4 going to create a big plume of dust when you're
5 digging up. Which I have to say has never happened
6 when we've done cleanups. We do sampling at the
7 edges of the property and on the workers and the
8 equipment when we're digging, and we've never had it
9 hit arsenic in the dust when we've done these
10 cleanups. We do clean work. But it does take that
11 into consideration, that type of risk.

12 MR. GORDON: And who does the scoring on
13 the criteria?

14 MR. PRENDIVILLE: Scores on --

15 MR. GORDON: Well, there's numbers on the
16 one slide.

17 MR. PRENDIVILLE: Right. I tried to
18 explain at the beginning that there's no -- we tried
19 to use that to make it a little more clear. It's a
20 qualitative analysis -- I mean, it's a qualitative
21 analysis, not quantitative. But to try to make
22 things a little more clear about how we were
23 thinking, how things weighed against each other, we
24 put a scoring on it.

25 MR. GORDON: Your team? Who's "we"?

1 MR. PRENDIVILLE: I'm involved, my
2 management is involved. We had to brief our
3 division director on these proposed plans before
4 they came out. The state is involved in the
5 evaluation.

6 MR. GORDON: How much do you give to the
7 top score? I mean, you picked the top score then,
8 the way they're written here?

9 MR. PRENDIVILLE: Right.

10 MR. GORDON: Is that what your intention
11 is to do at the end of this?

12 MR. PRENDIVILLE: We are proposing that,
13 we are trying to get public comments on that. And
14 things could be changed based on public comments.
15 They have changed remedies. There could be other
16 comments that argue against doing anything and we
17 have to take those into consideration, too, when
18 we're evaluating this. Not everyone wants a cleanup
19 on their property, and they have the same weight of
20 voice as everyone who wants a cleanup on their
21 property, a lower level.

22 Everyone's comments count. Eventually
23 it's EPA that makes a decision. It's not up for
24 vote. We have to weigh your comments against all
25 the other eight criteria to come up with a final

1 plan.

2 MR. GORDON: Sure. I notice on the
3 chart, too, there's a blank where it says state
4 acceptance. So there's going to be up to four
5 points for that across the board? I think you'll
6 try to plug that in. And then community acceptance,
7 and you're going to try to plug one to four in on
8 that, too?

9 MR. PRENDIVILLE: Like I said, that
10 number scoring was just trying to make clear what
11 we'd done to date. And I'm not going to re-issue
12 that table with the score at this point. Like
13 normally what we do is we say it meets the criteria,
14 it doesn't meet the criteria, or may meet the
15 criteria. And I think that's -- gives enough
16 clarity to people in this proposed plan to
17 understand where we're coming from. But generally
18 we don't do that. Like I said, I'm not going to
19 re-issue it.

20 MR. GORDON: For the community then would
21 it be helpful for them to say option is unacceptable
22 or acceptable and look at them in terms of each
23 option as you present it?

24 MR. PRENDIVILLE: If someone is going to
25 submit a comment to us, if you're just going to say

1 I don't like this one, choose the other one, that
2 carries very little weight with us. You have to
3 give some reason for your opinion on this. We have
4 to have some basis, some reason to make the change,
5 either technical or some other reason to change the
6 plan. But it's not just the -- an opinion
7 statement, I hate this, I like this; it doesn't
8 carry much weight.

9 MR. GORDON: No, it might be a better
10 idea to go to the criteria and explain how we think
11 it meets criteria.

12 MR. PRENDIVILLE: Right.

13 MR. GORDON: Thank you.

14 MR. PAULSON: Just a minute, folks.
15 Do you need a break?

16 THE COURT REPORTER: No. Let's keep
17 going.

18 MR. PAULSON: We're going to go right
19 into comments. And if you have comments, please do
20 it at that time. I have a number of folks that
21 signed up, they'll go first. The only other rule we
22 have now is about three minutes. It's a long time.
23 It really, honestly is. At about two minutes and 45
24 seconds I'll raise my hand and if you would kind of
25 wrap up at that time. If there's time at the end,

1 we can continue on with this, of course.

2 The first person who signed up is a
3 Jullonne Glad.

4 MS. GLAD: That's me. I'm actually good.
5 I'm going to let someone else take my place for a
6 change. I know it doesn't happen, so note that
7 down, court reporter.

8 MR. PAULSON: The next person is a
9 Beth --

10 MS. KNOBLAUCH: Knoblauch.

11 MR. PAULSON: I'm sorry.

12 MS. KNOBLAUCH: Knoblauch.

13 K-N-O-B-L-A-U-C-H.

14 MR. PAULSON: Outstanding. Please.

15 MS. KNOBLAUCH: I think my biggest -- the
16 biggest comment I want to make is the time factor.
17 And that four years is pretty upsetting to me. We
18 moved into the house and I had a two-year-old and a
19 six-month-old. They've never played in the yard, in
20 their own yard. We have to keep them off -- I mean,
21 we've chosen to keep them off of it. She's now
22 four, and I'm thinking she'll be eight by the time
23 -- you know, could be eight by the time this is
24 done. So all the eating of soil is done.

25 I mean, those -- the -- my concern is

1 studies have been done in other locations in the
2 world and in the country, and why isn't that
3 information just used here instead of spending two
4 years to replicate a study? And in there are some,
5 you know, some changes due to environment. That why
6 aren't those just added into those other studies?

7 So the time factor here is really
8 frustrating for me, is that I don't think it's been
9 done efficiently. That's my comment.

10 MR. PAULSON: Thank you very much, Miss.
11 Miss Cassandra -- is it Bowman?

12 MS. BOWMAN: It's Cassola Bowman.

13 MR. PAULSON: Please forgive me. Could
14 you spell that one for me, please?

15 MS. BOWMAN: It's spelled C-A-S-S-O-L-A.
16 And my last name is Bowman, B-O-W-M-A-N. And my
17 question was my property is fairly new, like 11
18 years old, and to my knowledge, we are the first --
19 that house is the first house on that property. And
20 I was just wondering, are you going to test our
21 property also? That's what I was wondering. I
22 don't know.

23 MR. PAULSON: Are you in the sample area,
24 ma'am?

25 MS. BOWMAN: I'm on 26th and 34th Avenue

1 and we have a lot of new houses in that area.

2 MR. PAULSON: No, it doesn't appear to
3 be.

4 MR. PRENDIVILLE: I would have to look at
5 the map.

6 MR. PAULSON: After the meeting perhaps
7 if you could get with us, we'll look on the map.
8 All right?

9 MS. BOWMAN: Yes.

10 MR. PAULSON: All right. Thank you. Mr.
11 Schiff.

12 MR. SCHIFF: Gary Schiff. I just
13 reiterate my question from earlier as a statement,
14 that cleaning to background and doing a more
15 thorough job makes the most sense to mitigate
16 against cumulative health effects that are known in
17 the neighborhood from other environmental impacts.
18 And the length of time should be shortened by adding
19 more crews to the work area.

20 MR. PAULSON: Thank you, sir.

21 Martha Reis. Reis.

22 MS. REIS: Reis.

23 MR. PAULSON: Please.

24 MS. REIS: It's R-E-I-S. I would just
25 add, you know, speak to what Gary just said about

1 cleaning to background. I would be curious to know,
2 I don't think we've discussed tonight how other
3 communities establish what is the level of -- you
4 know what's the acceptable level of contaminant to
5 leave in the soil. And just from my cursory look at
6 specific localities around the nation, I saw
7 communities that -- where there was public outcry
8 when they established that there was a level of 25
9 parts per million.

10 So it seems odd to me here that that's
11 considered the cleanup norm. So I just wonder, you
12 know, how you derive, you know -- how you come at
13 this number and how it compares to other numbers
14 nationally? Is there a national number? If not,
15 who looks at these things? You know, seems like
16 there's a lot of unanswered questions, which I don't
17 expect you to have the answers for, but I think
18 they're legitimate questions for people to raise.

19 MR. PAULSON: Thank you. Thank you very
20 much.

21 Is it Emily Sidorfsky? Probably
22 butchered that one. I'm sorry. Yeah, Sidorfsky.
23 Any Emilys in here?

24 I was looking forward to that name.

25 Doug VanderVeen.

1 MR. VanderVEEN: I'm all set.

2 MR. PAULSON: Thank you, sir. We have a
3 little bit of time left before they throw us out.

4 Yes, ma'am.

5 MS. PASS: I am just wondering --

6 MR. PAULSON: May I have your name,
7 please?

8 MS. PASS: Oh, sorry. My name is Carol
9 Pass P-A-S-S. Is that all you need?

10 MR. PAULSON: Thank you.

11 MS. PASS: Okay. I would like it very
12 much if the landlords that are in this area and have
13 been tested and their property is -- is within the
14 range of testing or even close, that I could see
15 where a landlord would not want to do this because
16 it would disrupt his business. And I think it's
17 appropriate for future tenants to know that he has
18 not -- he or she has not had their property
19 remediated when it should be.

20 I think this should be public knowledge.
21 It's public knowledge with regard to lead. We are
22 required to say, if we're a landlord, that we --
23 that our building was a pre-1978, all of this. I'm
24 sure most of you know this. So any landlord has to
25 tell people this. But if a landlord has, you

1 know --

2 MS. GLAD: Carol, it does. It does. It
3 does. There's a --

4 MS. PASS: So they have to -- it's public
5 knowledge? We have to inform tenants, if we're
6 landlords, if we do not remediate our property?

7 MR. PAULSON: Let me ask that question of
8 one of our representatives.

9 MS. PASS: Let me say one last thing.
10 The lady's property over there is two blocks outside
11 of the circle.

12 MS. BOWMAN: I wasn't sure. Thank you.

13 MR. PAULSON: Thank you for passing that
14 along.

15 Questions? Comments? Last chance.

16 I want to thank you for -- Oh, I'm sorry.
17 May I have your name, sir?

18 MR. GOSIEWSKI: My name is Sean
19 Gosiewski, it's G-O-S-I-E-W-S-K-I. And just -- can
20 we -- can we like talk about air for a minute?
21 Because, I mean, the EPA is changing some of its
22 rules now about air pollution, to have lower limits
23 of tolerance. And I just was wondering if -- right
24 now the Twin Cities is still in compliance with the
25 Clean Air Act in general, but right around here it's

1 quite bad. And I was just wondering if the EPA
2 might want to give any more assistance to cities
3 like Minneapolis to deal with areas that have a lot
4 of especially mobile storage, air pollution, which
5 is probably a much higher health risk for everybody
6 in this room than the soil contamination. I just --
7 do you guys have any knowledge about what the EPA is
8 doing around air issues in helping in areas like
9 this?

10 MR. PAULSON: I'm afraid we pretty much
11 have to stay on this topic here, sir, for this. But
12 I don't know.

13 MR. PRENDIVILLE: No one in this room has
14 the air expertise to answer your question. You're
15 better off contacting our air division. I don't
16 have a name to give you but --

17 MR. PAULSON: I'll tell you what, sir,
18 I'll come over later on, I'll get your address and
19 get in touch with the air people next week and then
20 I'll give them -- well, I'll give you their name.

21 MR. GOSIEWSKI: Okay.

22 MR. PAULSON: All right? That way we'll
23 make sure there gets contact. All right, sir.

24 Anyone else?

25 I want to thank you for coming. Thank

1 you very much. You're a very important part of this
2 and all these comments will indeed be read.

3 Please remember, you can send it to us,
4 either fax or e-mail or letters. Thank you.

5 (Adjourned at 8:25 p.m.)

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