

**Minnesota Pollution Control Agency Public Meeting - 5/19/2011**  
**Remedial Investigation of UMore Park East**

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MINNESOTA POLLUTION CONTROL AGENCY  
University of Minnesota  
Remedial Investigation of UMore Park East  
Dakota County, Minnesota

Public Meeting

May 19, 2011

6:00 p.m.

Rosemount Community Center  
13885 South Robert Trail  
Rosemount, Minnesota

Speakers: Gary Krueger  
Minnesota Pollution Control Agency

Janet Dalglish  
University of Minnesota  
Allan Gebhard  
Barr Engineering

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1 \* \* \*

2 MR. KRUEGER: Good evening. I just  
3 wanted to thank you for coming out tonight. It's  
4 a nice night. There are a lot of other community  
5 activities going on, so we appreciate you coming  
6 and hearing more about the planned investigation  
7 that the University will be doing in the UMore  
8 East area.

9 My name is Gary Krueger, and I'm  
10 with the Minnesota Pollution Control Agency. I'm  
11 a project manager in the Superfund Program, and  
12 what Superfund is is the program that oversees or  
13 does investigations at old industrial sites,  
14 identifying contamination issues and looking at  
15 what type of cleanup actions may be needed.

16 What the University is planning to  
17 do and what we're going to hear a little bit more  
18 detail about tonight is the remedial  
19 investigation that's going to be conducted in the  
20 UMore East area. I just wanted to -- what the  
21 University is going to be focusing on in this  
22 study area is pretty much the area outlined in  
23 red. The western part is the University UMore  
24 Mining Area, that's been evaluated or looked at.  
25 The southern part is Vermillion Highlands.

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1 That's right now managed by the University and  
2 the DNR, and the primary study area that the  
3 University is looking at now, plan to investigate  
4 this summer, again, is that red area. Most of  
5 that area is -- was the old Gopher Ordnance  
6 Plant, and I think Gopher Ordnance, again, was an  
7 old Army ammunition plant -- or planned to be an  
8 Army ammunition plant that was built and got up  
9 and running for only a short period of time back  
10 near the end of World War II.

11 So what the University is planning  
12 to do is conduct some soil testing and  
13 groundwater testing in that area, look at areas  
14 of where there may be contamination issues and  
15 try and identify what type of contamination is  
16 there and identify what may need to be done down  
17 the road. Again, part of that, an important part  
18 that, called the Superfund process, is community  
19 involvement, as we're doing tonight, community  
20 meetings, getting your input and your comments on  
21 what the University is planning to do. Down the  
22 road, once this investigation is done, take a  
23 look at what the results are, what our findings  
24 are, identify what maybe what data gaps there are  
25 and start to focus in more on what may be needed

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1 as far as cleanup down the road.

2 My role in this process is to  
3 review -- it's, basically, an oversight role,  
4 review and approve of what the University is  
5 planning to do. So they prepare the work plans  
6 and sampling plans. We, at the MPCA, take a look  
7 at that, comment and review and approve and maybe  
8 make adjustments to that plan so that it meets  
9 our requirements for the Superfund investigation.

10 We want to take your comments on  
11 that, we want to take your input on what the  
12 University is planning to do. The University, --  
13 at the front table you'll see these comments  
14 forms. You can fill those out tonight and hand  
15 them into the front desk up there, or my name and  
16 address is on there, you can send them to me or  
17 any other communication you can submit to me, my  
18 attention. We'll take a look at those comments  
19 and take those into consideration when we review  
20 and ultimately final approve the work plan.

21 Again, our role is an oversight  
22 role. The University is working very  
23 cooperatively to conduct this investigation. We  
24 have great partners in this, especially with  
25 Dakota County. I want to recognize Dakota County

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1 staff that has been a valuable research and  
2 partner to this investigation, Jill Trescott,  
3 Dakota County. They're a valuable resource and  
4 great knowledge, they have knowledge of history  
5 of this site and moving forward on the  
6 investigation.

7                   As I said, I think we'll have the  
8 University of Minnesota staff come up. Janet  
9 Dalgleish is the project manager at the  
10 University, give a little more background, and  
11 then we'll turn over to Barr Engineering, who is  
12 the environmental consultant that is preparing  
13 the work and will do the work at the site.

14                   We'll be around after the brief  
15 presentation. We'd like to get through the  
16 presentation and then have time for questions and  
17 answer afterwards. We'll stay as long as we  
18 need. If you want more in-depth questions or  
19 want to discuss anything more directly with me,  
20 I'll be here after the meeting, and I can  
21 certainly do that. Again, the comment forms are  
22 available at the front table or you can send  
23 those to my attention.

24                   With that, we'll turn it over to  
25 Janet.

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1 MS. DALGLEISH: Hello. I want to  
2 welcome you all. I'm also from the University,  
3 and I want to let you know that the University is  
4 very committed to this project, and today we have  
5 with us Craig Moody, who is the Director of  
6 Health and Safety, and he's the person that I  
7 report directly to. There's Leslie Krueger,  
8 Chief of Staff, University of Services, and Tim  
9 Busse, Director of Communications, and I'm really  
10 glad that they're here and can help support this  
11 process.

12 I started to tell you that the  
13 University is excited to be conducting this  
14 investigation. I thought twice, because I  
15 realized that Jim Eidem and I are environmental  
16 scientists, and we're excited to conduct this  
17 investigation. But the University is very  
18 committed to it, and we want to conduct a  
19 comprehensive remedial investigation that looks  
20 at the Gopher Ordnance Works and the post Gopher  
21 Ordnance Works period, period of time.

22 We have worked very hard to gather  
23 as much data as possible, and Barr and their team  
24 have done an exceptional job of sifting through  
25 thousands of pages of reports and documents,

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1 historical documents from the as well as all of  
2 the tenant records that we could find, and we had  
3 people like Kathy Boudreau who was just like  
4 pulling tenant records out of the walls, and  
5 everyone has done a very cooperative job in terms  
6 of bringing this all together and bringing as  
7 much data to the table as possible, and now we're  
8 taking that data, and we're ready to go and  
9 investigate the site.

10 We have looked at all the  
11 possibilities, we have looked at how best can we  
12 get the most data and information for the dollars  
13 that we have to spend; and so I just want you to  
14 know that we are being looking at areas across all  
15 of the Eastern UMore Park area, and we're going  
16 to do our best to find as much as possible by the  
17 end of this year, and we will have a data report  
18 that will be public and will be on our Web site  
19 at the end of the process; and from that process  
20 then we're going to also look at what we don't  
21 know and where we'll have to go from there.

22 So I welcome you, and I'm going to  
23 let Al Gebhard, who is the principal from Barr  
24 Engineering, who is working on this, and senior  
25 vice-president, and he was also president when I

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1 was working there.

2 MR. GEBHARD: Thanks, Janet. I'll  
3 try to use this microphone, if I can, so I can  
4 use my hands to change the slides.

5 My name is Al Gebhard. I'm a civil  
6 engineer for Barr Engineering Company. Speaking  
7 for Barr Engineering Company, we are very excited  
8 about this project and excited to be selected by  
9 the University to study a site that has this kind  
10 of history and this kind of importance to the  
11 area, to the region, to the area and to the  
12 University of Minnesota.

13 As was explained, the study area  
14 that we're tackling here is outlined in red. At  
15 least --

16 UNIDENTIFIED MAN: Al, sorry to  
17 interrupt.

18 MR. GEBHARD: You can't hear me?  
19 I'll speak up. Is that better?

20 UNIDENTIFIED MAN: Can you guys  
21 hear him?

22 MR. GEBHARD: Can you hear me?

23 UNIDENTIFIED MAN IN AUDIENCE: No.

24 (Discussion off the record.)

25 MR. GEBHARD: Thanks, Jim. Is this

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1 better? Okay.

2                   The area that we're studying here  
3 is outlined in red on the slide, and the area to  
4 the west, or to your left, is the -- what's  
5 called the UMore mining area, and that area was  
6 studied in 2009 and 2010. We did sampling out  
7 there, and there was also a comprehensive  
8 environmental impact statement done around the  
9 gravel mining project that's proposed there, and  
10 the area to the south, as was explained, is  
11 Vermillion Highlands, and that's managed jointly  
12 by the University and DNR.

13                   There has been some environmental  
14 assessment work done down there as well, but the  
15 area of focus here is the red area. It's called  
16 UMore East, and it's about 3500 acres, so it's a  
17 large area, and it was the site of most of the  
18 former Gopher Ordnance Works, that I'll refer to  
19 periodically as the GOW.

20                   Let's talk about the remedial  
21 investigation process, and remedial investigation  
22 is a term of art. It comes from the Federal  
23 Superfund Law, and, basically, it means a  
24 thorough investigation of soil and groundwater,  
25 surface water quality, groundwater quality in the

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1 study area. There is a process that's covered  
2 and described in both MPCA, Pollution Control  
3 Agency, and the U.S. EPA guidance that  
4 consultants like Barr follows whether you're  
5 doing a study in Rosemount or anywhere else in  
6 Minnesota or really anywhere else in the United  
7 States.

8                   It starts with a phase, what's  
9 called a Phase I Environmental Site Assessment.  
10 I'll explain what that is in more detail, but  
11 that's really a paper study where we look at all  
12 of the information that's available about a  
13 property or an area and we conduct a site  
14 reconnaissance where we walk the property or the  
15 site looking for evidence of chemical releases or  
16 chemical use.

17                   When I say chemicals, I'm talking  
18 about hazardous substances, which is another term  
19 of art, involves most every industrial chemical  
20 that you can think of, and petroleum products,  
21 which are, of course, something that's derived  
22 from oil.

23                   So the first step is to do this  
24 paper -- this desktop paper study to try to  
25 understand where chemicals were handled on the

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1 site and where releases might have occurred.  
2 Then, based on that, you set about figuring out  
3 develop a -- what's called a RI or Remedial  
4 Investigation Work Plan, and that describes how  
5 you're going to conduct sampling to assess  
6 whether, indeed, releases of chemicals has  
7 occurred and, if it has occurred, what's the  
8 magnitude and extent of that release.

9           So we're at the second step on this  
10 slide. We have developed a RI Work Plan, and  
11 it's now at the Minnesota Pollution Control  
12 Agency for approval, and what we're doing here  
13 tonight is explaining what's involved in that,  
14 going to be involved in that work, and soliciting  
15 your comments for ideas about things that should  
16 be included if they are not.

17           The next step, then, will be to  
18 implement the Remedial Investigation Work Plan,  
19 as approved, and we're setting that up in two  
20 stages. We want to sample smart out here on this  
21 site. It's a very large area, a lot of things  
22 have gone on. We want to get as much bang as we  
23 can for our samples, and so we've set this up in  
24 two stages.

25           Stage I is described in the Work

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1 Plan in detail, where we're going to place  
2 borings, where we're going to place new  
3 monitoring wells, where are we going to collect  
4 soil samples. Then we'll take a look at the  
5 results from Stage I and decide what we'll sample  
6 it Stage II, and the objective is to identify all  
7 of the chemical releases that have occurred on  
8 this property and define the magnitude and extent  
9 of that contamination that has resulted; and at  
10 the end it will be summarized in a report that,  
11 basically, will present the findings and the  
12 conclusions from our investigation, and all this  
13 will be conducted during the rest of 2011.

14 Let's look at the Phase I  
15 Environmental Site Assessment that we've  
16 completed. These site assessments are,  
17 basically, performed to an ASTM, American Society  
18 of Testing Materials, who has developed a  
19 standard that professionals like Barr and other  
20 consultants follow as the first step in most any  
21 property investigation or cleanup throughout the  
22 United States, and the purpose is to define  
23 what's called in the standard recognized  
24 environmental conditions, which are basically  
25 areas where no one expected releases of

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1 chemicals, again, hazardous substances or  
2 petroleum products, the whole gamut of the sort  
3 of contaminants that are typically cleaned up  
4 before a site is developed.

5           There are five components to the  
6 Phase I Environmental Site Assessment. The first  
7 is the records review, review all the available  
8 information on how chemicals were handled on the  
9 property and on surrounding properties. There is  
10 typically a regulatory database report that's  
11 purchased, and there are vendors who have access  
12 to all of the files of the various regulatory  
13 agencies, and so we get that information, that  
14 provides us some understanding of all the  
15 information about chemical releases,  
16 contamination issues, soil and groundwater that  
17 exist on the property or on surrounding  
18 properties within a mile.

19           Then there is -- on this site there  
20 are geological reports that have to be prepared  
21 so that when we do the sampling it's important  
22 that we understand the geology, how the soils are  
23 present, where the bedrock is, how groundwater  
24 flows and so forth. So we review that kind of  
25 information.

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1                   We also looked at a lot of  
2 historical aerial photos, going back to 1937.  
3 There are sets of aerial photos of this property  
4 that have been reviewed by our professionals,  
5 looking for evidence of dumping, evidence of  
6 stage soils, other things that would indicate,  
7 give us some clues to where chemicals, perhaps,  
8 were released.

9                   We then looked at the historical  
10 plan sheets that are available on the  
11 construction and demolition of the GOW and we  
12 looked at a tenant list to understand the kinds  
13 of companies that had used this property while it  
14 was owned by the University; and then, as Janet  
15 said, we looked at the previous investigation  
16 reports, of which there are more than 60,000 of  
17 pages. There's been a lot of work done out on  
18 the property. It's important to understand that  
19 work because, again, we want to sample smart. We  
20 want to build on the information that's  
21 available. So that's the first part of the  
22 Phase I Environmental Site Assessment, the  
23 records review.

24                   The second part is the site  
25 reconnaissance. We go out on the site, we walk

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1 the property looking for evidence of chemical  
2 releases or chemical use. This involved  
3 two-person teams on the site, and they were out  
4 there for a total of three days, walking around,  
5 looking at various things that can be observed,  
6 just looking in the sewers, for example, looking  
7 at the ruins, walking over some of the old dumps  
8 that are present there, taking a look at the area  
9 so at that we can see exactly how the ground  
10 surface looks now; and we had to wait for the  
11 snow to leave because seeing the ground surface  
12 is a very important part, obviously, of a site  
13 reconnaissance.

14           The third part is interviews with  
15 people, people with knowledge about the property.  
16 We interviewed three University of Minnesota site  
17 managers with long-time experience on the  
18 property, and we also interviewed two Dakota  
19 County staff. As was mentioned, Dakota County  
20 has a lot of knowledge about this property, and  
21 they were very, very useful and very helpful in  
22 transmitting their understanding of the records  
23 and the site to our folks so that we could  
24 incorporate that into the Phase I Site  
25 Assessment; and, again, what we're looking for

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1 are places on the property where chemicals were  
2 handled or potentially released.

3           The fourth part, then, is an  
4 information evaluation. We, basically, develop  
5 what are called findings, which are the areas and  
6 the uses of chemicals on the property. We then  
7 develop an opinion about whether or not it was  
8 likely that there was a release of chemicals from  
9 the places that the chemicals were used, because  
10 what you're trying to find is evidence of -- of  
11 chemicals that had been released to the soil or  
12 groundwater or may be present in dumps or waste  
13 disposal areas; and the final part of the  
14 Phase I, then, is the report that has been  
15 prepared and is available in the various document  
16 locations that the University is maintaining,  
17 also, I think, on the Web site.

18           I'll talk a little bit about the  
19 summary of results from the Phase I. So, again,  
20 the Phase I environmental Site Assessment is what  
21 we call a desktop information review and summary,  
22 no samples are collected for this document.

23           We organized the site into seven  
24 sub-areas, and they're available on the maps, and  
25 I want to talk about what went on in each of

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1 those sub-areas.

2                   The first one is the GOW -- what  
3 we're calling GOW East, which is way over on the  
4 eastern side of the site. Here's County Road 46  
5 coming through the center of the site. GOW East  
6 is this area over here, that was one area, second  
7 is what we call the ABC line, where cannon powder  
8 was produced for a short time in the mid-1940s;  
9 and, then, there's the central area, located  
10 here, GOW central; and then the DEF line here  
11 where was partially constructed for rifle powder  
12 to be made, but it was never used. There's what  
13 we call the Navy burning ground area. This is  
14 where the Navy had their facility, as well as  
15 where the burning ground was for where all spent  
16 powder and materials from the Gopher Ordnance  
17 were burned. Then there's GOW West up here in  
18 the corner; and GOW North, where the  
19 administrative buildings were, up here, along 42;  
20 and, then, I think those are the seven areas that  
21 were defined.

22                   I'll talk a little bit about what  
23 went on in each of these areas because this is  
24 important information for the Remedial  
25 Investigation Work Plan, but in GOW -- oops,

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1 operator error here. In GOW East, it was  
2 basically the nitric acid and the sulfuric acid  
3 production area, was where the coal-fired power  
4 plant was for the eastern side of the Gopher  
5 Ordnance Works, was the coal ash pond, that's  
6 where the wastewater treatment plant was, and  
7 that's where the outlet of the main sewer systems  
8 for the old Gopher Ordnance Works existed.

9 In the A,B,C line here  
10 (indicating), this was the -- was only used for  
11 nine months, and I think only one of the -- the  
12 A,B,C was, basically, three lines that were  
13 constructed for manufacturing and processing of  
14 cannon powder, and I think only the B line was  
15 used for any length of time at all, and the other  
16 two lines were not -- were not used. It also  
17 included the main shops area, and in that area  
18 now there's a lot of ruins and a lot of sewers  
19 from the old operation.

20 Post GOW, post GOW, that's where  
21 the location -- there were three parts of the  
22 University of Minnesota Rosemount Research Center  
23 Superfund site are located, and these were  
24 tenants that did things that might have been  
25 common back in that day but which caused some

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1 problems. One was George's Used Equipment, the  
2 other one was U.S. Transformer, and the third one  
3 was Porter Electric; and what these operations  
4 were doing were recovering batteries, recovering  
5 metal, and caused contamination of the soil with  
6 polychlorinated biphenyls, PCBs, and metals.

7           Those areas have been remediated  
8 under the overview of the Minnesota Pollution  
9 Control Agency and the U.S. EPA back in the late  
10 1980s, and contaminated soil has been excavated  
11 or some of that soil was incinerated on site and  
12 other areas have been capped. So those three  
13 parts of the University Superfund site have been  
14 closed.

15           The third area is GOW Central, kind  
16 of comes down here (indicating). In this area  
17 was cannon powder processing and packaging.  
18 There were rail lines there, powder cans for  
19 storage in what was called the Christmas trees,  
20 which were light-gauge railroads, and there was a  
21 lot of demolition debris disposal at the time the  
22 Gopher Ordnance Works was shut down; and, also,  
23 that includes the fourth part of the University  
24 Superfund site, which was the University of  
25 Minnesota Rosemount Research Center burn pit,

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1 which has already been capped and closed under  
2 the oversight of the U.S. EPA and Minnesota  
3 Pollution Control Agency in the 1980s.

4           The fourth area is the D,E,F line  
5 here (indicating). As I had mentioned, that was  
6 constructed for the production of rifle powder.  
7 It was never really put into operation. It was  
8 also the location of an aniline plant that was  
9 going to be used to manufacture stabilizer for  
10 the rifle powder. That was also never put into  
11 production.

12           The Navy burning grounds here,  
13 where the off-spec powder was burned, also where  
14 the Navy satellite operation center was located.  
15 GOW West, up in the corner here (indicating), was  
16 largely unused. The railroad came through there  
17 that served the Gopher Ordnance Works. There  
18 were also a lot of gravel pits there that were  
19 probably used for gravel to construct the --  
20 construct the Gopher Ordnance Works are located  
21 in that area, and it's also the University's beef  
22 farm.

23           Finally, the GOW North, up here  
24 (indicating), scenario where the administrative  
25 offices were located. There's an area where

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1 parking was located. Again, the heavy-gauge  
2 railroad went through there and hauled materials  
3 into and out of the Gopher Ordnance Works. There  
4 is a natural gas pipeline through that area.

5 As we reviewed all the information,  
6 we identified about 100 findings. Those were  
7 areas where chemicals were used or stored or  
8 released on the property, and both associated  
9 with the Gopher Ordnance Works and associated  
10 with tenants that have occupied the area since  
11 the Gopher Ordnance Works closed.

12 Then we looked at those 100  
13 findings, and we used our professional judgment  
14 to say which of those areas could have resulted  
15 in a release of chemicals because we have  
16 information data that's been collected that would  
17 show that or, in our judgment, could have  
18 resulted in a release of chemicals above the  
19 de minimis quantities. You know, a few molecules  
20 isn't going to cause a problem. The way we think  
21 of it, if that release would likely have brought  
22 regulatory scrutiny in this day and age today,  
23 then, that becomes what we call recognized  
24 environmental condition.

25 Our environmental professionals

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1 concluded that out of those 100 findings, 67 of  
2 those, or two-thirds, rose to the level of a  
3 recognized environmental condition, and that's an  
4 area where release of chemicals has occurred or  
5 could potentially have occurred above de minimis  
6 levels.

7                   So that, then, completed the  
8 Phase I Environmental Site Assessment. Those 67  
9 recognized environmental conditions were then  
10 carried into the work plan for the remedial  
11 investigation.

12                   Let's talk a little bit about our  
13 Work Plan. With that many sites of concern, or  
14 SOCs, we needed to categorize and prioritize  
15 those, and we had so many samples and so much  
16 budget was available, so we had to prioritize  
17 those and emphasize the worst first, but we are  
18 going to look at all of the recognized  
19 environmental conditions except those that are  
20 being studied currently by the Army and those  
21 that are existing tenant sites where the  
22 University already has tenants living and  
23 operating there.

24                   We divided these findings or these  
25 recognized environmental conditions into various

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1 categories. Category 1 were, basically, those  
2 where a release has been documented with the  
3 studies that have gone on out here in the last,  
4 oh, 20 or 25 years. There has been a lot of data  
5 collected on various specific areas of the site,  
6 so we put 21 of those recognized environmental  
7 conditions into Category 1 where we know a  
8 release has occurred. So the objective there in  
9 our studies is to define extent and magnitude,  
10 because before you can contemplate how you're  
11 going to clean something up, understand how the  
12 situation would fit with the future development  
13 of the property, you have to know extent and  
14 magnitude of the contamination. So in the  
15 Category 1 sites, we're going to go right into  
16 Stage I into defining extent and magnitude.

17 In Category 2 and Category 3 --  
18 Category 2 sites are those where we don't have  
19 data that would show that a release has occurred  
20 but we think it's probable that a release has  
21 occurred, and there's -- out of our 67 we put 41  
22 sites into that category.

23 What we have to do there is do some  
24 sampling to see whether a release really did  
25 occur. So, in Stage I, we're going to sample

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1 each of those sites and determine whether there  
2 was, indeed, a release of chemicals above  
3 screening levels that we use in this business  
4 that are based on human health concerns. So if  
5 we find a concentration, then, that is above  
6 human health concerns screening levels at those  
7 sites, we would then in Stage II go about  
8 defining extent and magnitude.

9           The Category 3 areas are really  
10 grids which are sort of between the various  
11 recognized environmental conditions we found, and  
12 we're going to sample five of those grids to see  
13 whether there's contamination out there that  
14 might be wind-blown contamination or from a  
15 source that's not directly connected with that  
16 location. We don't want to just study the areas  
17 where releases may have occurred and miss that  
18 there is some larger issue on the site that has  
19 resulted from, as I say, wind-blown deposition or  
20 erosion or some other mechanism that has moved  
21 the contamination from the release areas; and,  
22 then, the Category 4 areas are the areas that we  
23 aren't going to study. These are the ones  
24 where we don't think releases have occurred and  
25 where there won't be further work; and now, as I

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1 said, the objective of our work this year is to  
2 define all of the releases that have occurred on  
3 this property, on this 3500 acres, and do as much  
4 as we can to define the magnitude and extent of  
5 those releases.

6                   When you set up your sampling plan,  
7 you need to understand what we call the  
8 conceptual release model, which tells us how the  
9 contamination may have been released to the soil  
10 or groundwater, and there are several conceptual  
11 release models that we're looking at on this  
12 property. One is the release to the surface  
13 soils but then infiltration from the surface  
14 soils to the subsurface soils and down to the  
15 groundwater, and that one would apply for spills  
16 that would have occurred on the ground surface or  
17 releases to the ground surface.

18                   A second release model would be for  
19 underground storage tanks, septic tanks and drain  
20 fields and sewers, and that would be a release  
21 directly to the subsurface soils from  
22 infiltration or leakage and then, perhaps,  
23 infiltration then from the subsurface soils down  
24 to groundwater.

25                   The third conceptual release model

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1 is for dumps. Contamination could be in the dump  
2 materials or it could have leached from the dump  
3 materials down into the underlying soils and  
4 perhaps to groundwater.

5 So those are the three main  
6 conceptual release models that we're applying as  
7 appropriate to each of the release areas, the  
8 chemical release areas; and, as I said, we are  
9 going to try to do the sampling in two stages,  
10 and Stage I will focus on Category 1, 2 and 3  
11 sites, seeing if releases have occurred in the  
12 Category 2 and 3 sites, and try to define lateral  
13 extent, not vertical but lateral extent of the  
14 contamination in the Category 1 sites where  
15 contamination has already been identified.

16 In Stage II, after we get the data  
17 from Stage I and look at it, we'll design  
18 Stage II, and Stage II will basically focus on  
19 defining the magnitude and extent of the releases  
20 that have been identified in Category 2, three  
21 sites in Stage I and now doing vertical profiles  
22 and vertical extended contamination in the  
23 Category 1 sites, as well as the Category 2 and 3  
24 sites.

25 The Stage II Work Plan, sampling

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1 plan will be defined based on the Stage I  
2 results, so that Stage II sampling plan will be  
3 submitted to the Pollution Control Agency and  
4 Dakota County for their review and comment.

5                   Stage I, as it's currently defined,  
6 will involve about 100 surface samples, 190 test  
7 trenches, and 24 deeper soil borings, to give us  
8 an indication of whether release has occurred in  
9 the Category 2 and 3 sites and the magnitude and  
10 extent of contamination from Category 1 sites.  
11 Basically, looking at about 760 groups of  
12 analyses conducted on the 300 to 350 samples that  
13 are anticipated to be collected.

14                   So Stage I will significantly  
15 improve the knowledge of these 3500 acres in the  
16 areas where releases of chemicals could have  
17 occurred. Samples will be collected at the  
18 ground surface, which we're defining as zero to  
19 six inches, collected near surface, which is zero  
20 to four feet, and the subsurface for twelve feet  
21 and from inside utilities and structures that  
22 we've identified. In the groundwater sample  
23 locations we're talking about sampling nine  
24 existing wells, some of which have not been  
25 sampled for a long time, and seven new wells that

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1 will be placed to see what the groundwater  
2 quality situation is under the site.

3 We're also conducting a geophysical  
4 survey in some of the large dump areas to give us  
5 a good indication of the extent of the dumps that  
6 are present. Stage II, as I said, will build on  
7 the data from Stage I, and we're looking at a  
8 comparable number of samples in Stage II.

9 The report will be prepared by the  
10 end of this year. It will show where the  
11 releases have occurred above human health  
12 screening levels. It will show the anticipated  
13 magnitude and extent of the identified releases.

14 Showing you a bit about some  
15 examples here. Here's the east sub area  
16 (indicating). We've identified on here are  
17 sampling locations, and you can see these on the  
18 boards that are present. We also have copies of  
19 the Work Plan. If you want to look at a specific  
20 area and see where we're sampling in Stage I,  
21 we'd be glad to share that with you. It's hard  
22 to see from up here. We then -- this is the map  
23 of the northern part of the east sub area,  
24 basically showing the existing conditions, and,  
25 again, you can see the sampling locations are in

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1 colors. There's also some of the buildings from  
2 the GOW that we've labeled there so that we can  
3 orientate ourselves while using these maps; and,  
4 then, also, we put these sampling locations on a  
5 map, and this is the 1945 photo showing the  
6 Gopher Ordnance Works when it was in operation.

7                   So you're welcome to look at these  
8 maps. Jim Eidem has amazing knowledge of every  
9 detail in our sampling plan, so he'd be glad to  
10 stay as long as you want to stay to talk about  
11 specific areas, and how we're proposing to attack  
12 each area.

13                   Our project schedule, the Work Plan  
14 has been submitted to the Pollution Control  
15 Agency, they're in the middle of their review.  
16 They're hopeful that they'll have their review  
17 done by the middle of June. They'll give us  
18 comments, we'll finalize the plan. We want to  
19 get into the field in June for our Stage I  
20 sampling to begin that. June 20 is kind of the  
21 day that the checkered flag or the green flag, I  
22 think, goes down to start. We hope to complete  
23 that Stage I work in July, review the results,  
24 get a sampling plan into the Agency, get that  
25 reviewed by the Agency and get our Stage II work

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1 done in September, with our report in December.

2 Any questions? I forgot to look at  
3 the court reporter. Did I read too fast?

4 Questions, comments?

5 MS. DALGLEISH: So does anyone have  
6 questions either about the process or have  
7 information that you'd like to share or any  
8 questions at all regarding this? Yes, Myron.  
9 Oh. Would you please say your name and I'll give  
10 you the microphone.

11 MR. NAPPER: Thank you. Myron  
12 Napper, and I'm glad to -- finally realizing that  
13 they're going to be doing something with this  
14 situation after 60 some years. You know, it's  
15 really -- it helps take a load off my shoulders,  
16 really. The things, you know, over the years  
17 that we've been lied to and everything else, what  
18 they've been going to do and everything else,  
19 when they come out, yeah, we're going to get the  
20 government to clean this up and all this blarney,  
21 and they send their messengers out here, tell us  
22 what they're going to do, it never happens. I've  
23 been around here for just about 60 years, and I  
24 still have the day to see that the University has  
25 done something good for the City of Rosemount or

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1 the City of Empire. The best thing that ever  
2 happened when they put the gun club in in Empire  
3 Township down there. My son happened to be mayor  
4 of Rosemount at the time, and they didn't want to  
5 do it. He said then we'll cut off your fire  
6 protection if we can't lease that property for  
7 them, and that was the best thing that ever  
8 happened. The DNR has taken over there. They  
9 have a very good strong gun club out there, but  
10 that is about the only thing that I know that  
11 they were forced into.

12                   But, like I'm saying, as far as,  
13 you know, them being a Good Samaritan to us,  
14 that's never happened really, but I know they're  
15 looking for a Santa Claus out there to do a lot  
16 of this stuff, but I tell you what, they ain't  
17 out there. People got to make a living, too, you  
18 know; and what really irks me, we got all that  
19 property from forty -- on the south side of 42,  
20 all the way on the east side of their property  
21 line, clean into Rosemount, that is fairly good  
22 property. There's some that's got a little bit  
23 of contamination there. But why can't we get  
24 developers to buy that property to develop this  
25 thing? As far as the U get -- the University

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1 getting their people in here and they're going to  
2 do this, and twenty, 30,000 people over here, I  
3 mean, they got -- it's one goof-up after another.  
4 Two years ago they hired an outfit that went in  
5 there to dig -- cut all them trees and everything  
6 up. They got them all chopped up and everything,  
7 come to find out they didn't take a permit out,  
8 cost them \$54,000 for the permit, and then they  
9 had to hire a recycling firm to come in and pick  
10 up the asbestos that was laying on top of the  
11 ground, and I don't know. I forget who it was  
12 that was at this meeting a couple weeks ago I was  
13 at, and they wanted to know, you know, who would  
14 be interested, or whatever the question was, of  
15 taking down those 53 concrete things. I told  
16 them there's no Santa Claus out there. So, you  
17 know, they laughed at me, but they ain't laughing  
18 now. This is serious business, and it's been  
19 going on for 60 years, and I put the blame a lot  
20 on local government and county government, as far  
21 as that's concerned. I think they should have  
22 been on this case long before I got on it. Thank  
23 you.

24 MS. DALGLEISH: Well, Myron, thank  
25 you for your comments; and I do want to assure

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1 you that we are going to do this investigation so  
2 that we can move this property forward, and I  
3 appreciate the information that you provided us  
4 in your interview.

5 So do we have anyone else with  
6 questions or comments? Yes? And state your  
7 name, please.

8 MR. KNOLL: Frank Knoll. When  
9 you're sampling this, are you going to take --  
10 first off, are you going to go down just the six  
11 inches all over the place and then decide to go  
12 deeper?

13 MR. GEBHARD: Yes. We're looking  
14 at the release model, and our surface release  
15 model will do surface sampling. But the test  
16 trench, the nice thing about the test trenches is  
17 we can take a look at the soils going down on the  
18 side walls so that we can decide the best place  
19 to sample based on what we see and what we  
20 measure with our field instruments.

21 MR. KNOLL: In other words, you're  
22 going to dig a trench and on each side of the  
23 trench you're going to watch -- dig down so deep  
24 and then you're going to look at the soil as it  
25 goes down?

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1                   MR. GEBHARD: Exactly, and then  
2 take measurements with a vapor analyzer to see if  
3 we can see some evidence of chemical release, and  
4 we'll take the sample in the worst location we  
5 can find.

6                   MR. KNOLL: You're going to do this  
7 all over or is this just in a certain area?

8                   MR. GEBHARD: No, all over, but  
9 looking at the areas where we think releases  
10 occurred, and so we're looking at 190 test  
11 trenches, 100 surface samples in Stage I, and 24  
12 deep borings in Stage I, and, then, about the  
13 same number coming back to confirm things and to  
14 find how far the contamination goes out from  
15 where we found it.

16                   MR. KNOLL: When you check for the  
17 outlying deals, are you going to go just -- you  
18 know, you got -- are you going to dig where the  
19 deepest part is and then tailor it out from  
20 there?

21                   MR. GEBHARD: Yes, yes. As I say,  
22 we try to sample smart because we don't have  
23 unlimited budget in this stage, so we want to  
24 collect as much good information as we can for  
25 the scope of the study.

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1 UNIDENTIFIED MAN: Anyone else?

2 MR. GEBHARD: I'll say it again,  
3 Jim and I will stay around if you want to look at  
4 the maps or if you want us to pull out a Work  
5 Plan and look at the details of all of the seven  
6 areas, each of the seven areas, be glad to stay  
7 for that. I want to be sure that any questions  
8 you might have we try to answer as best we can.

9 MS. DALGLEISH: Thanks for coming  
10 out.

11 MR. GEBHARD: Thanks for coming.

12 MS. DALGLEISH: I just wanted to  
13 remind you that -- I'll speak loudly. I just  
14 wanted to remind you that we do have comment  
15 forms and comments need to be provided in  
16 writing, and we will make sure that the MPCA  
17 receives any comments that are turned in at the  
18 back. Thank you.

19 (Whereupon, the proceedings was  
20 concluded at 7:19 p.m.)

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1 STATE OF MINNESOTA )  
 )ss. CERTIFICATE

2 COUNTY OF DAKOTA )

3 BE IT KNOWN that I, Jean F. Soule, took  
the foregoing proceedings;

4

That the proceedings were recorded in  
5 shorthand by me and reduced to typewriting under  
my direction;

6

That the foregoing transcript is a true  
7 record of the proceedings to the best of my  
ability;

8

That I am not related to any of the  
9 parties hereto, nor an employee of them, nor  
interested in the outcome of the action;

10

That the cost of the original has been  
11 charged to the party who ordered the transcript,  
and that all parties who ordered copies have been  
12 charged at the same rate for such copies;

13 WITNESS MY HAND AND SEAL this 31st day of  
May, 2011.

14

15 JEAN F. SOULE, Notary Public, RPR

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**Remedial Investigation of UMore Park East, Dakota County, Minnesota  
Minnesota Pollution Control Agency and University of Minnesota**

**Public Meeting**

Thursday, May 19, 2011  
6 p.m. to 8 p.m. (formal program starts at 6:30 p.m.)  
Rosemount Community Center

**AGENDA**

- 6:00 p.m. Informal viewing of display boards, maps and related information (project staff and consultants available for questions and conversation). Light refreshments.
- 6:30 Introductory remarks and process for providing public comments – **Gary Krueger**, Environmental Planner, Remediation Division, Minnesota Pollution Control Agency
- 6:35 Project staff introductions – **Craig Moody**, Director of Health and Safety, and **Janet Dagleish**, Environmental Planner, Department of Environmental Health and Safety, University of Minnesota
- 6:40 Remedial Investigation of UMore Park East – **Allan Gebhard**, Senior Vice President, Barr Engineering
- Description of the UMore East Remedial Investigation process
  - Summary of Draft Phase I Environmental Site Assessment findings
  - Review of the Draft Remedial Investigation Work Plan
  - Anticipated project schedule
- 7:00 Opportunity for Public Questions/Comments on the Draft RI Work Plan
- 7:15 Informal viewing of display boards, maps and related information, with project staff and consultants available for questions and conversation
- 8:00 Public meeting adjourns