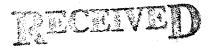
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MAR 1 2 2008



DIVISION OF SITE

ASSESSMENT & REMEDIATION

Transcript of the DHEC Public Meeting

February 5, 2008

In Re: EFP Products State Superfund Site

## COPY

Southern Reporting, Inc.

Phone: 803.749.8100

Fax: 803.749.9991

Email: SouthernReporting@sc.rr.com

The original sealed transcript filed in Pat Vincent's office.

			Page	<b>=</b> 1
State of South Carolina	)			
County of York	)			
	)			
South Carolina Department	)			
of Health and	)			
Environmental Control,	)			
Bureau of Land and Waste	)	Transcript		
Management,	)			
	)	of		
In Re:	,	Public Meeting		
EFP Products State	)	rubile Meeting		
Superfund Site	, )			
Superfund Site	)			
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The within public meeting was taken before Stephen K. Tackett, a notary public in and for the State of South Carolina, commencing at the hour of 7:07 p.m.,

Tuesday, February 5, 2008, at the office of Hunter

Street Elementary School Cafeteria, 1100 Hunter Street,

York, South Carolina.

Reported by

Stephen K. Tackett

Page	e 2
1	APPEARANCES
2	
3	DHEC-BL&WM: Ms. Angie R. Jones
4	Mr. R. Gary Stewart
5	Ms. Pat Vincent
6	Mr. Konstantine Akhvlediani
7	TIT. Hono cancine many icarani
8	
9	DHEC-Region 3: Steve Moseley
10	Paul Edinger
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13	TRC: Jean Oliva
14	Robert Smith
15	
16	SPX: Dan McGrade
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18	Enviro-Pro: Tom Bolyard
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## STIPULATIONS

MS. VINCENT: Good evening. I want to thank all of y'all for coming out tonight for the public meeting for the EFP Products site that we have here in York, South Carolina.

The department is available today for several purposes. First, the department would like to share some information with you regarding the -- the EFP Products site; and the second purpose is to provide an opportunity with which the department can discuss the proposed plan for cleanup at the site and to respond to any questions that you may have or comments that you may have. As you may know -- that the site is located at 6247 Campbell Road in York.

And we have several folks we'd like to introduce to you today. My name is Pat Vincent, and I'm with the State Remediation Section of the Bureau of Land and Waste Management of the South Carolina Department of Health and Environmental Control, and I have helped the site team today with — or in the last few months with this: setting up the location of this meeting today and forwarding you the fact sheet and announcement of the meeting today.

Page 4 1 And I am the one who goofed and put Thursday, 2 February the 5th. I'll go ahead and acknowledge that; I apologize. We had several changes on those schedules and with the holiday season, it was a little hard trying to find everybody available, so 6 I apologize that that did occur. 7 I wanted to also let you know that we publicized this meeting today in the Sunday paper as -- and that was in "The Herald" as well as in 10 today's publication of "The Herald." 11 I also have -- with me today is Angie Jones. 12 Angie is our project manager. She's also the 13 spokesperson for the site, and she's reviewed all 14 the documents that are -- have been developed for 15 this site, and she will be presenting the 16 presentation in a few minutes to you. 17 I also have Gary Stewart. Mr. Stewart is with 18 -- the manager of the State Remediation Section, so 19 he is the supervisor of Angie and I. We also have 20 Konstantine Aquavediani -- Ahkviediani. Excuse me. 21 MR. AHKVIEDIANI: That's right --22 MS. VINCENT: Yes. 23 MR. AHKVIEDIANI: -- so --24 MS. VINCENT: He is with the -- he's a hydrologist, and 25 he's with the -- the department's hydrogeology

department. And so one of the things that he will -- his concentration is, is with the groundwater issues. And we also have some regional folks with us today. Steve Moseley is here. Would you stand? Thank you. And Paul Edinger. They are -- they work out of the Lancaster office, but they also serve you in this community.

There are some things I'd like to go over before we get started. I want to make sure we cover everything. We do have a sign-in sheet. We're asking everybody to sign in today. One of the things that that helps us with is providing notice to you in the future, and if you ever want your name to be removed from the mailing list, you can always contact us. The sign-in sheet -- we ask you, of course, to write legibly so that I can read that later on. And this -- the sign-in sheet will be placed in the bureau's file that's located in Columbia.

Secondly, the department has also established an administrative record for this site. The administrative record is a -- a group of documents that the department has relied on in making its decisions -- the technical decisions regarding the site. And we have that stored at the York County

Page 6 1 Public Library, and that's at 21 -- (clears throat) excuse me -- 21 East Liberty Street. And so you 3 can go and look at -- there. It's not the department's full file on this site, but it does give you the documents that we relied on in making decisions. 7 We also -- you can come down to the -- the department's office and review any of our files 9 there with a -- a Freedom-of-Information request, 10 and we'll make those files available to you as 11 well. 12 There is also a gentleman that I probably 13 should introduce to you. Steve Tackett is here 14 with the mouthpiece on his mouth. He is actually 15 our court reporter for tonight. He will be 16 transcribing the meeting word for word so that we 17 can be sure to recollect all the questions and 18 comments that you may have that may be presented to 19 us later. And we do have microphones that will be 20 coming around to make sure we -- we've captured all

I think Ms. Jones will be here to provide you with some background information regarding the site and provide you some investigative results as well as providing a -- a summation of the alternatives

your questions and comments.

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that the department looked at in trying to decide how to clean up the soil and groundwater at the site.

You, as the public, and -- are allowed the opportunity to provide us written comments regarding the site and those comments have to be to us by March the 7th. And you can send those to -- to myself, Pat Vincent. I am on a fact sheet here, and I also have my business card here if you didn't get a fact sheet in the mail. Next I will let Ms. Jones take over.

MS. JONES: Thanks, Pat. First, I want to thank
everyone from the community for showing up tonight.

I -- I really appreciate this. As Pat said, I will
give a brief history of the site and talk about the
investigations and, really, what led us to come
here tonight and ask for your input on the remedy
of this cleanup. So I'll talk about the
investigations; I'll give you a description of each
cleanup alternative; and then I'll also present to
you the one that the department has preferred.
It's our proposed remedy that you would've received
in your fact sheet.

And then I'll open up the floor to comments and questions, so if we could hold the questions

Page 8 until the end, I think my presentation may take about 15 to 20 minutes, unless I speak faster than 3 I think. In the early '50s, a company called "Metals 5 Protection Company" operated a plating business at 6 Steel plates were rinsed through various 7 methods after they were dipped into chromic acid baths. When these plates were drained, they were drained by various methods. One was into a rock 10 field sump, which was built over an abandoned well. 11 That well was about 50 foot deep. We consider this 12 to be our main source area for the groundwater 13 contamination at the site. Some rinse water was 14 also pumped into a settling basin, and these early 15 rinsing methods did not remove all the chromium 16 from these plates, so it -- it's in the 17 groundwater. It -- its -- has percolated into the 18 groundwater. 19 Then throughout the '60s, '70s, and '80s, the 20 ownership transferred numerous times, finally to 21 EFP Products, which is the name that's still in 22 front of the building at the site. In 1990 there 23 was a merger; SPX Corporation assumed all the

liabilities of a previous owner, so SPX is the

responsible party for performing the remedy at the

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site.

Then in 1991 DHEC began discussions with both EFP, who was operating at the site, as well as SPX about the chromium contamination on the property. Several reports were developed, and in 1994 a groundwater report was submitted to DHEC which really showed us how much contamination was on the property.

That following year in 1995, we entered into a consent agreement with SPX. Through this consent agreement, SPX is required to perform a remedial investigation to determine the nature, the source, the extent of any contamination on the property. They're also required to conduct a feasibility study, which is the phase we're at now. The feasibility study evaluates options for cleanup after the site has been determined to be fully investigated.

So that's what we're here tonight to talk about: a summary of that feasibility study and the options that were presented for the remedy. So let me first start out by giving you some -- some history of the investigations at the site.

Numerous monitoring wells were installed; I believe there are close to 30 on the site. These

Page 10 1 wells are sampled, some quarterly, some annually. 2 There are also five residential wells that have 3 been sampled since 1997. I do believe we're only sampling four of those wells now. One is no longer 5 in operation. 6 There were some surveys, geophysical surveys, 7 to identify some bedrock fractures, because we do 8 have groundwater contamination in the bedrock. 9 investigated various areas on the property that we 10 thought may be potential sources: A sludge 11 disposal trench, some plating areas, there was an 12 old lagoon on the property. I believe our next 13 slide will show a map of these locations. 14 This is Campbell Road at the top here, so the 15 entrance to the facility -- you know, you come down 16 the driveway right here. There's an old plating 17 bath, and that 50-foot disposal well is on this 18 part of the property. Here's our lagoon location; 19 here's a sludge disposal trench. These were 20 various areas through historical sampling and 21 investigation that -- that were investigated 22 through the '90s. 23 So after installing these wells, collecting 24 these soil samples, performing these tests, what 25 did we find? We found that both the soil and the

groundwater was contaminated with chromium on this facility, and the groundwater, both shallow and deep, is contaminated with chromium.

So now, after the department has the data, we need to decide what to do with the information we have. So if we know the soil is contaminated, how bad is it? So we have evaluation standards that we look at, so I'm going to separate this presentation into two topics. One, the soil -- and we'll talk about the soil first, and then we'll talk about the groundwater.

So the soil cleanup standard -- EPA has set two limits for what they consider to be goals and levels for direct contact or ingestion. For an industrial area, that limit is 64 milligrams per kilogram. For a residential area, that number is 30 milligrams per kilogram. So this is an industrial site, so we're going with the industrial number at 64 milligrams per kilogram.

Okay. So now that we know what our number is -- our standards, our 64 and our 30 -- I can tell you that from all the samples collected around that site, samples outside the footprint of the building range from 0 -- non-detect -- to 55 milligrams per kilogram.

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Page 12 1 So that 55 is above a residential number, but 2 it's below the industrial number. Now, beneath the 3 building where the plating baths were, the numbers 4 greatly exceed the residential and industrial numbers, so we have exceedances under the building 6 very high above industrial standards. 7 And the next slide shows the area from my 8 first map. Campbell Road is up here and you pull 9 into the facility. This is the -- the area of the 10 plating bath, and we -- these are the sample 11 locations. And it may be hard to see, but these 12 numbers indicate the concentrations of the chromium 13 that were collected from this around the -- the 14 former plating bath area. 15 So we do know exactly where the soil 16 contamination is underneath the building. So once 17 we know what limits we've exceeded and we know 18 where we have exceeded those limits, the department 19 has specific goals. We want to prevent any 20 exposure to chromium exceeding that industrial 21 number; we also want to prevent that chromium from 22 migrating from those impacted soils and creating a 23 larger area of contamination. 24 So the document that DHEC reviewed, the

feasibility study, gave us three alternatives for

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soil remediation, and I will explain each of these three. The first one is no action. We are required by the National Contingency Plan -- it's just a regulation that we have to compare the other alternatives to a no-action so you have a baseline. This would be no active remediation, no deed restrictions on the property and, of course, there is no cost associated with this alternative either.

The second alternative that was evaluated was basically no active remediation but deed restrictions to be placed on the property. These deed restrictions would ensure that the building -the integrity of the floor was maintained. would also prevent the portion of the facility being converted into a residential development. So it can only be zoned industrial. The estimated present worth cost for this alternative is \$150,000. Now, that cost is made up by the legal fees associated with placing the restriction -- the deed restriction on the property, as well as maintaining the -- the integrity of that floor and -- and the roof over that area of the building where the soil contamination was.

The third alternative is the most costly: 800,000 to about \$1.5 million. This is excavation

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Page 14 1 and off-site disposal. Basically, we would come in 2 and remove the concrete floor; remove those areas 3 of contaminated soil beneath that floor. We would 4 have to characterize those soils to see how they 5 would need to be disposed, and they would be 6 disposed of off-site at a -- at a proper facility. 7 We'd bring clean backfill in and replace the floor. 8 Now, if these soils -- if the contamination levels 9 were too high in these soils, they may need to be 10 stabilized if leachability was a concern. So that 11 -- that drives up some of the cost. 12 restrictions would also be placed on the property 13 with this alternative. Once again, for 14 nonresidential development and maintaining the 15 floor over that area where the soils were removed, 16 but we would still need to maintain the integrity 17 of that floor. 18 So those were our three descriptions of our --19 I'm sorry -- the three alternatives described. 20 the department uses some evaluation criteria in 21 order to help us determine which of those three 22 alternatives would be the best one to select. 23 First of all, I have to make sure that each 24 alternative protects human health and the 25 environment and complies with state regulations

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state and federal regulations. Then I also look at long-term effectiveness, reduction of toxicity, short-term effectiveness, implementability, and cost. I have to look at those and compare each alternative against these criteria.

And the last evaluation criteria is community acceptance. That's why we're here tonight to get your input. If you have some concerns about the remedy that DHEC has selected/proposed, then we would like to hear your input, and that will help us decide what our remedy would be.

So I took each alternative -- the first one was no action. And this does not meet any evaluation criteria that I just showed on that -- on that list. It is not protective of human health and the environment; it does not prohibit that material from moving; so we did not like this alternative.

The second alternative was the alternative where we just placed deed restrictions on the property. If we can maintain the integrity of that floor, and if we can keep precipitation from hitting that soil and causing soil contamination to migrate, this is very effective in the long term.

It also -- the deed restriction also prohibits

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Page 16 1 any residential development on the property, so that's protective over the long term. It's easily 3 implemented. You just go to the courthouse, place a deed restriction on the property. And there are 5 no short-term risks. You don't have to come into 6 contact with the soil and the -- the workers who 7 are out there would not have any risk associated 8 with that. The third alternative was the removal and 10 off-site disposal alternative. If you remove the 11 soil, you have greatly reduced your mobility of the 12 -- the soil contamination. It -- it can't go 13 anywhere if it's already been removed. 14 restrictions are also effective long-term. One 15 thing that is a drawback to this alternative -- the 16 excavation activities may be limited due to the 17 presence of the building. First of all, you have 18 to remove the concrete floor, and I'm not sure how 19 thick it is, but it's -- it's -- it's substantial. 20 Also the height of the building and any -- any 21 shoring activities due to having to excavate this 22 property would be greatly limited by having that 23 building in place. So I'd -- I'd hate to tear down 24 that building and remove that flooring if it was

unnecessary.

And the other short-term risks associated with the building is, once again, working in the tight area inside that building with the large equipment and then also managing the contaminated soil once it's removed. So there are some risks to the workers that would be performing this work.

Okay. The alternative that DHEC prefers is No. 2, no action. Basically, no active removal, but deed restrictions placed on the property. It prevents any future exposures to the soil; it prohibits the leaching of these soils into the groundwater; and it's very cost-effective. So that is the alternative that DHEC would like to implement for the soils.

Now, I'd like to switch gears and discuss the alternatives presented for the groundwater. We know the groundwater's contaminated and the limit that I must remediate that groundwater to is a number established by the EPA, and DHEC has maximum contaminate levels. Now, that level that is a safe drinking water level is 0.1 milligrams per liter, and I'll show you some other numbers here in a minute so you can see how that compares to the actual contamination on the property.

Chromium has exceeded that regulatory level,

Page 18 1 .1 milligrams per liter in both shallow, intermediate, and deep bedrock wells on-site. 3 nearby residential wells that we have sampled have 4 never showed any site-related contamination, and 5 they have been sampled since 1997. sampled quarterly. This first map shows the shallow -- what we 8 call "saprolite" -- shallow groundwater 9 This area is also the area where contamination. 10 our soil contamination was. The old disposal well, 11 the old plating baths are located in this area. 12 The next slide -- this slide shows the 13 bedrock contamination -- the deeper contamination. 14 Once again, here's -- here's Campbell. So it's a 15 little bit larger area of contamination in the 16 bedrock, and then we have an area over here of 17 deeper bedrock contamination near this former 18 lagoon. 19 But you can also see -- I think one of the 20 reasons why a lot of people showed up was because 21 of where they live and they're concerned about 22 groundwater potentially impacting their drinking 23 water wells since you're not on city water out

What I can tell you from this is that those

of you that are living, you know, half a mile or a

here.

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mile away are not in any harm.

From this map, I can show you that I know where the contamination is, if -- it's right here on the property. Now, granted, this figure right here, I do know that my contamination has been detected in this well right on the property line, but I also have a boundary well over here. located off the property, but it has not shown contamination, so I know that the contamination has not migrated past this area. Groundwater flow in this area does flow toward the southeast, and I believe the neighborhoods here tonight are located, I guess, northwest of this property. So I do understand your concerns, and I just -- I wanted to go ahead and clarify that. We know exactly where the groundwater contamination is on this property.

So just as we set our goals for the soil, we also set our goals for the groundwater. We want to restore that groundwater, because it is a drinking water source of the state. So we want to restore the groundwater to that .1 milligram per liter, making it safe. While that's being remediated, we want to prevent any exposures to that groundwater where it exceeds that .1 level. We also want to limit any migration of the chromium-contaminated

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groundwater any farther than it's migrated already.

So in order to meet these goals, we have four -- let me clarify that -- we have five alternatives for groundwater remediation. The first one, just like for the soils, is no action. We are required to consider this just as a baseline for comparison with our other alternatives. There would be no active groundwater monitoring. Right now, I said, we're doing some quarterly and some annually, but with this option there would be no monitoring. There would be no deed restrictions placed on the property, no protections for contamination migrating any farther, getting to nearby residential wells. One good thing is there's no cost.

The second alternative is extraction, treatment, discharge -- basically, pumping the groundwater out of the ground. There would be some studies to determine our best system design. Then we would pump the groundwater out of the ground. We would treat it on-site. We would continue monitoring the wells to make sure that our pumping was effective; we would place restrictions on the property, because this would not occur quickly, with this pumping activity; we would have to get a

sewer line run to the property, because once this water has been treated, it will be discharged to the -- the sewer and eventually to the POTW. The estimated present worth value of this alternative is \$7.7 million.

The third alternative incorporates a little bit of the second alternative I mentioned: pumping. We would remove the groundwater in the source area where I mentioned the plating baths and the disposal well were located under the building. We would extract the groundwater from that area, once again treat it, and discharge it to the sewer. Outside those areas, if you remember to the -- the figure to the right where I showed the lagoons -there was some off -- there was some contamination there in the -- in the deep bedrock. Outside the source area, we would have some in situ treatment. That just basically means "in place," so the groundwater would stay in the ground, and -- and our remedy would be inserted into the ground. would continue monitoring. There would be groundwater restrictions -- groundwater use restrictions on that property so nobody could drill a well and drink from that contaminated area. Once again, water supply and sewer would have to be

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1 supplied in order for this remedy to occur. And
2 this alternative is a little more costly at \$8.1
3 million.

The fourth alternative does not include any pumping. It is all in place. It is all in situ treatments. We would continue monitoring the wells, probably a different monitoring network than we have right now, but we would continue monitoring to make sure that plume decreases, but it does not increase. Deed restrictions would still be placed on the property to make it protective for residentials nearby. And this alternative also has a contingency for future water supply. If residential wells become impacted, we would need to make sure that these residences were hooked up to city water.

This alternative is broken down into two options. The first option, 4A, we want to inject this material to remediate the chromium in both the shallow and the deep aquifers. So we want to target both areas where we have exceeded that .1-milligram-per-liter limit. So the estimated present worth of injecting into both the shallow and the deep is about 2.6 million.

Now, the other option for this alternative is

to only inject in the deeper bedrock aquifer. The shallow groundwater really hasn't changed much since about 1996, so the contamination is -- it's pretty localized and -- and hasn't moved very far, but it still exceeds the -- the cleanup levels that DHEC wants to protect the groundwater. So this second remedy, GW-4B, would only inject into the deeper groundwater. Estimated present worth: \$1.1 million.

So there you have the alternatives described. So then what I do is I take those same evaluation criteria, and I compare all these alternatives and see which one ranks at the top, once again, with community acceptance being very important.

So the first alternative, no action, is not protective of the environment. It's a -- in order to reach this MCL as chromium breaks down, it would take years. So reaching this 0.1 milligram per liter is -- is highly unlikely. There would be no long-term protections. There is no short-term risk since nothing would be occurring at the site, but these remedial objectives would not be achieved if -- if nothing occurred at the site.

The second alternative was the pump-and-treat method. Long-term protection would be achieved

Page 24 1 with this, because in the long-term, there would be deed restrictions. People would not be drinking from the contaminated aguifer. Eventually, all the contaminated water would be pumped and treated. does require a long-term operation and maintenance of a treatment system. Now, through our pre-design studies, we would be able to tell you exactly how 8 long this pumping would occur, but as of right now, 9 I -- I don't know. It would be many years. There 10 is some short-term risk associated with the workers 11 that would be handling this extracted groundwater 12 and any of the sludge that occurs from the 13 remediation of the groundwater. And once again, 14 you -- we would have to construct a -- a water and 15 a sewer line, so that's very costly and 16 time-consuming as well. 17 The third alternative: incorporate a little 18 bit of the pump and treat with some of the 19 in-place. Once again, long-term protection -- is 20 protected, is provided. Still, the short-term risk 21 -- pretty much everything that I said with the --22 the pump and treat. The one issue with this that 23 differs is the in situ may reduce the overall time 24 frame for the remediation to occur. It might occur 25 faster if you're -- if you're placing something in

the ground to help break down that chromium. A negative with this is the permeability of the saprolite. That means the -- the porosity and -- and the compaction of the clays that are very shallow. It may prohibit the material from reaching into the groundwater. So that -- that's one issue that we'll have to study during some of our design studies. And once again, long-term operation and maintenance.

The fourth alternative reduces toxicity, prevents exposure. There is a contingency action of the water line in case residences are exposed. Faster reduction in chromium because you're going to treat both the shallow and the deep aquifer at the same time. Once again, the -- the compaction of that shallow soil, that -- the saprolite may complicate this remedy. You would have to install an extensive injection system, multiple points drilled into the ground so that you can get your material into the ground. So -- so a system will have to be developed, and that will take time and -- time and money.

The second option for -- for this alternative was treating only the bedrock. Similar to the first option, but you're only targeting one

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1 aquifer. Although there would still be long-term
2 protection, it will reduce the toxicity mobility,
3 but we're not -- not expected to impact any of the
4 shallow groundwater.
5 DHEC has selected alternative GW-4A, which was
6 the in situ injection into both the saprolite and
7 the bedrock. It does provide protection to human

health and the environment; it reduces the groundwater contamination because you're actively treating it. There will still be monitoring ongoing to make sure that the plume is decreasing in size. And once again, the contingency action

has been provided, that public water may be supplied if necessary.

So the next step -- DHEC has evaluated the investigation results; DHEC has evaluated the feasibility study, which is at the library. What I've done was taken this document -- basically, tweaked it down into the fact sheet that you were provided, and that's what I've presented here to you tonight.

So after explaining this proposed plan to you, we welcome any comments. So for the next month, we'll take any of your comments -- tonight and until early March. Once we've all decided on the

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remedy, I will write a record of decision so that the company knows exactly what is expected of them, which alternative has been selected, and what DHEC and the community would like to occur at this facility.

Okay. After this record of decision has been written, where we select the remedy, the consultant and the responsible party will have to come up with a design. So the day after the -- I write the record of decision, you probably will not see activity at the site. There will be some studies and some discussions with the department, some designs so that we make sure we're -- we're going down the right path. So this remedial design will be submitted to the department. We will review it, and then we can begin implementing the remedy.

So once again, the administrative record is at the York County Public Library. We will accept comments over the phone, via e-mail, written, and I would like to answer any questions you may have here tonight, and -- let me first say that if I can't answer everything, I have some other folks here that may be able to help me answer some of those questions. Yes, sir?

MR. PENLAND: What is considered a shallow well and deep

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Page 28
          well as to -- talking about the depth?
     MS. JONES:
                 Uh-huh.
     MS. VINCENT: Please tell us your name.
     MR. PENLAND:
                   Steve Penland. Steve Penland.
     MS. JONES: The -- the question was what do we consider
          to be shallow and what do we consider to be deep
          bedrock? Make sure I -- make sure I answer this
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          correctly, Jean.
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               Some of our wells that were installed in the
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          saprolite go down to, say, 45/50/55 feet and then
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          our bedrock is deeper than that. It's 75 to 80.
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          (To Ms. Oliva) Is that correct? Close?
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     MS. OLIVA:
                It -- it starts at about 50 --
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     MS. JONES: It -- it --
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     MS. OLIVA: -- and continues down.
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     MS. JONES:
                 I would say that the -- the difference right
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          there starts at around 50/55, but I mean we've --
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          some of our wells are 120/140 foot deep.
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     MS. VINCENT:
                   Next question. Hold on just a moment.
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          Let me get me you on the mike. Please announce
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          your name too.
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     MR. SMITH:
                 My name's Tom Smith. I'm -- I was the local
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          developer over there with Homestead -- did the
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          three developments, so I've got a -- sort of, a
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          litary of questions. And I'm also the councilman,
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Page 29 1 and I also live out there. 2 MS. JONES: Okay. 3 Mr. SMITH: And there -- there -- there's concern to me as far as how we got to this point, because as a 5 developer, we -- we did environmental assessments 6 on all of our properties out there and -- and I 7 talked to you, Angie --8 MS. JONES: Uh-huh. MR. SMITH: -- the other day, and this was not caught, 10 you know? And there seems to be a breakdown in the 11 system, meaning, you know, while these preliminary 12 investigations were going on, you know, why wasn't 13 local DHEC aware of it through the system --14 MS. JONES: Uh-huh. 15 MR. SMITH: -- you know? Because there's no way to 16 really, you know, find out about these things. Ι 17 mean, you know, when we did the -- the Campbell 18 property, there were some tanks that had to be 19 removed over there. They were done. Over at 20 Vander Lakes there was a -- a ditch -- a trench 21 that was dumped on for years; we found that and 22 tested those, but there was nothing -- and we used 23 two environmental companies, so there was a, you 24 know --

MS. JONES:

Well --

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Page 30
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     MR. SMITH: -- we could have used --
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     MS. JONES:
                  -- once again, can I ask you the time frame?
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          When -- when were these --
     MR. SMITH:
                 This was --
 5
     MS. JONES:
                  -- developments --
 6
     MR. JONES: from '80s --
 7
     MS. JONES:
                Okay.
 8
     MR. SMITH:
                 Okay. -- through the mid '90s.
 9
     MS. JONES:
                 Okav.
10
     MR. SMITH:
                 And what -- what concerns me is that even up
11
          into '97, '98, '99, when Vander Lakes was going on,
12
          which is really the closest property local DHEC
13
          still permitted wells to be placed out there.
14
     MS. JONES:
                 Uh-huh.
15
     MR. SMITH:
                 So there's a -- there's a -- there's a
16
          problem with the system.
17
     MS. JONES:
                Well, I believe they were able to let those
18
          wells be installed because there was no concern for
19
          groundwater contamination in the area you're
20
          talking about.
21
     MR. SMITH:
                 So you guys knew that -- you know, there was
22
          no concern even if they're 1300 feet away or 1500
23
          feet away? I mean, you said a half a mile. You
24
          know, what -- what's the -- you know, I know some
25
          of the adjacent properties have been tested and --
```

- MS. JONES: Uh-huh.
- MR. SMITH: -- and so far, luckily, nothing's escaped --
- MS. JONES: Uh-huh.
- 4 MR. SMITH: -- you know?
- <sup>5</sup> MS. JONES: Uh-huh.
- 6 MR. SMITH: But water has a funny way of traveling --
- MS. JONES: Uh-huh.
- MR. SMITH: -- in different areas, and I don't know that
- any of us could -- you know, can really say for
- sure if -- I mean, can you say for sure that
- 11 it's --
- MS. JONES: Well --
- MR. SMITH: -- safe?
- MS. JONES: -- we have shallow wells; we have deep
- wells; you know, we have them located all over that
- property.
- MR. SMITH: Right.
- MS. JONES: The site's littered with wells, and we feel
- we have a very good hold as to, you know, how deep
- the contamination is, how widespread it is --
- MR. SMITH: Right.
- MS. JONES: -- and that's -- that's why that -- the blue
- -- the blue area --
- MR. SMITH: Sure. No. I --
- MS. JONES: -- on the map -- you know, we -- we know

```
Page 32
 1
          where it is.
     MR. SMITH: And -- and -- look, I've been developing for
 3
          25 years. I'm very familiar with --
     MS. JONES:
                 Right.
 5
     MR. SMITH:
                -- environmentals and -- you know, in fact,
 6
          we -- we talked. We've got one up on Pole Branch
                 We had to drag water a mile and a half up
 8
          the road, because we did an environmental
 9
          assessment, found out there was contamination, so
10
          we put in monitoring wells, yet local DHEC didn't
11
          know about it.
12
     MS. JONES:
                 Uh-huh.
13
     MR.
         SMITH:
                 We had to find out about it, and DHEC UST
          knew about it since '92, so there's a concern
15
          there, just over all --
16
     MS. JONES:
                 Okay.
17
     MR.
         SMITH:
                -- and we'll talk about that.
18
     MS.
         JONES:
                 Okay.
19
     MR. SMITH:
                 The next thing is, though, is the history of
20
          this site. What -- what triggered -- I mean, it's
21
          -- it -- it's been monitored for so long, what
22
          finally triggered the cleanup? I mean, what's --
23
          what -- what triggered it? I mean, if you knew you
24
          had problems out there --
25
     MS. JONES:
                 Uh-huh.
```

```
1
     MR. SMITH: -- years ago, why -- why did -- why did --
 2
          why did it take so long to get this site to -- to
          come to this point?
     MS. JONES:
                 That's a good question. Let me --
 5
     MR. SMITH:
                 And then, you know, as -- as far as the
 6
          adjacent property owners, you know, what can they
 7
          -- these are questions I know they have.
                                                      What are
 8
          they going to be able to do with their property,
 9
          whether it's -- you know, there is no water and
10
          sewer out there. Most of the property zoned behind
11
          that property and around it is zoned industrial,
12
          and water and sewer will probably run through those
13
          properties one day, but as far as the residential
14
          or the farmland around it, you know, can these
15
          people put wells if they needed it for irrigation
16
          or -- or, you know, can future homes be put out
17
          there? Or, you know, is DHEC going to say, "Look,
18
          if you're within 500 feet or 1000 feet of this
19
          site, no more wells of any type so we don't draw
20
          down and pull out these contaminates"? Or --
21
         JONES:
                 I'm sure the location of where those wells
22
          would potentially be installed would be of concern
23
          to --
24
     MR. SMITH:
                Right.
```

Southern Reporting, Inc.

But --

-- DHEC, yes.

MS.

JONES:

```
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 1
     MR. SMITH:
                 Okay.
     MS. JONES:
                -- that's why if we can get out there, you
 3
          know, right now and start this remedy --
 4
     MR. SMITH:
                 Uh-huh.
 5
     MS. JONES: -- we don't even --
     MR. SMITH: Does local DHEC right -- right now know
 7
          about this?
 8
     MS. JONES:
                 Yes.
 9
     MR. SMITH: DHEC -- as far as somebody wanting to build
10
          a house out there right now?
11
     MS. JONES:
                 Yes.
12
     MR. SMITH:
                 Okav.
                         And I just -- you know, I'm just
13
          curious about the -- the questions -- as far as the
14
          cleanup, it seems to me, on the proposal for the
15
          -- the soils, you know, if -- if No. 2 is done, you
16
          know, first of all, who's going to continue to make
17
          sure that that floor stays in place and that roof
18
          stays okay and --
19
     MS. JONES:
                 The property owner.
20
     MR. SMITH:
                 The property owner. Okay.
                                              What happens if
21
          the bus hits that property owner?
22
     MS. JONES:
                 If the what?
23
     MR. SMITH:
                 What happens if that property owner
24
          disappears? What happens?
                                      Okay.
25
     MS. JONES:
                 Then I guess that's when the -- that's when
```

- the local DHEC and -- and state DHEC goes -- goes
- to make sure that --
- $^3$  MR. SMITH: But why would we --
- MS. JONES: -- there's a new property owner that -- that
- 5 knows about it.
- 6 MR. SMITH: Okay. Well, I don't know if a -- you
- 7 know --
- 8 MS. JONES: It's not --
- 9 MR. SMITH: Taking on a contaminated site -- I don't
- 10 know --
- MS. JONES: It -- it's a corporation.
- MR. SMITH: Okay. I know, but if -- if they sell to
- somebody and they --
- MS. JONES: Uh-huh.
- MR. SMITH: -- somebody takes it on, they get it real
- cheap, and they do it, and they feel okay with it
- for whatever reason --
- MS. JONES: Uh-huh.
- MR. SMITH: -- and if something happens to that person,
- does it fall -- does it fall back on the previous
- owner?
- MS. JONES: Gary, do you want to answer? Because this
- happens quite often.
- MR. SMITH: Uh-huh.
- MR. STEWART: Yes. When we place -- require

Page 36 1 restrictions to be placed on a property, they're required -- the property owner is required on an annual basis to provide us information showing that the restrictions are still in place and they're 5 still being protective. It's on our back to make sure, on an annual basis -- and I think the basis 7 -- I -- I think our stuff is due, like, May 29th of 8 each year. 9 We require parties to notify us, and we have 10 to verify that everything is still in place. 11 can be verified through drive-bys on a periodic 12 basis, various measures just to make sure the 13 restrictions are still in place. And if a -- if a 14 party goes belly up, there's -- there's not a whole 15 lot we can do about pursuing that party, but we do 16 have a state fund, the Hazardous Waste Contingency 17 Fund, which can be used to address situations such 18 as this if a private party's unable to. 19 SMITH: But as we have a private party right now, 20 why would we have them take it out? You know, 21 instead of being stuck with this thing in 15 years 22 if somebody goes belly up, and then the taxpayers 23 have to pay for the cleanup. 24 MR. STEWART: Well, under the laws and regulations we 25 deal with -- we deal with the Superfund Law, which

has -- has also been adopted as state law -- we're required to select and implement remedies that are cost-effective and protective of human health. The -- the Alternative No. 2 is protective of human health and it is more cost-effective than Alternative No. 3.

MR. SMITH: And I -- I -- as somebody that, you know, is a councilman and somebody that lives out there, and I got neighbors and friends and family, I just think -- you know, I -- my uncle taught me this in business: If -- if -- if the bus hits you, what are you left with? And if the bus hit somebody over there, you're left with that contamination when you had a chance for the party -- now, I don't know who the company that owns it now, if they were responsible for this or was it the company before or before or before -- you know, I don't know.

But the fact is if you have somebody that has finances and is able to clean it up and it was the -- you know -- you know, everybody needs to take care of their own responsibilities and it shouldn't fall back on us. That's all I'm saying, because you're asking us for a recommendation. As a councilman in this area, I would say they need to clean that thing up -- you know, it -- it -- so

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          that we don't get stuck with it. You guys
          shouldn't have to --
     MR. STEWART:
                   And we --
     MR. SMITH:
                -- mess with it either.
     MR. STEWART:
                  -- we appreciate your concern in that --
     MR. SMITH:
                 Uh-huh.
     MR. STEWART:
                  -- area and -- and that's part of the
          reason we're here tonight. We want to hear what
 9
          you think. We want the company to know what you
10
          think.
11
     MR.
         SMITH:
                 Uh-huh.
12
     MR. STEWART:
                   We're here with a proposal tonight.
13
          not carved in stone that this is the remedy.
14
          back, and we evaluate all the comments, and we can
15
          change the -- the remedy before it's actually put
16
          in place.
17
     MR.
         SMITH:
                 That -- that's -- I just wanted to --
18
     MR.
         STEWART:
                   Right.
19
     MR. SMITH:
                 -- put that out there just so that it was
20
          put out there that, you know, we got to think down
21
          the line, you know --
22
     MR. STEWART:
                   Right.
23
     MR. SMITH:
                -- because apparently whoever put this in
24
          the ground wasn't thinking too far down the line.
25
               So as far as the cleanup on the GW-4A, where
```

- has that done been -- you know, where has it been
- done before, how --
- MS. JONES: The in situ? Yes. It's --
- 4 MR. SMITH: Yeah. And was it --
- MS. JONES: It's been done at numerous sites.
- 6 MR. SMITH: With -- the same contaminates?
- MS. JONES: Yes.
- MR. SMITH: Okay. And how long did you see the effects?
- I mean, how long did it -- I mean, I know it's
- tough to say on -- each site's different, but was
- it three years or five years or -- you know, where
- you really saw something effective?
- MS. JONES: (Mr. Akhvlediani) Which -- would you know?
- Have -- have you had any chromium sites where you
- can tell what it -- the time frame --
- MR. AKHVLEDIANI: It's hard to tell. It depends on the
- site.
- MR. SMITH: Uh-huh.
- MS. JONES: (To Ms. Oliva) Would -- would you know,
- Jean?
- MS. OLIVA: It -- it can -- it can --
- MR. AKHVLEDIANI: -- range --
- MS. OLIVA: My name's Jean Oliva; I'm with TRC.
- MS. JONES: Jean prepared this plan, this -- this
- feasibility study, so she's highly familiar with

```
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 1
          the -- the investigation and the -- the
 2
          alternatives.
     MS. OLIVA:
                 Yes. This has been used on -- on some
          sites. I -- as you mentioned, it depends on the
 5
          site conditions and on the levels of contamination.
          At lower levels of contamination like the -- the
          areas around the -- the areas around the outside of
 8
          those blue circles, those should be able to be
 9
          remediated within, I would think, one or two years.
10
          In the center we have some -- in the source area,
11
          we have some higher level and that might take a
          little longer to get those cleaned up.
13
     MR. SMITH:
                 That's all I got.
14
     MS. JONES:
                 Okay. Okay.
15
     MS. VINCENT:
                   Thank you.
16
     MS. JONES:
                There was a question over here. I'm not
17
          sure --
18
     MS. VINCENT: Did we finish with Mr. Smith?
19
                 Yeah. I'm done.
     MR. SMITH:
20
     MS. VINCENT:
                   Okay.
21
     MS. JONES:
                 Okay.
22
     MS. VINCENT: (To Ms. Jones) Sorry. (To Mr. Hurley)
23
          If you'll announce your name too.
24
     MR. HURLEY: Carl Hurley. I live at Leland Court, so
25
          I'm within the 1-mile radius. I also have an MPH,
```

- and I -- you guy's have done a great job.
- MS. JONES: Thank you.
- MR. HURLEY: Anybody here qualified to speak to the
- 4 health risk of chromium?
- <sup>5</sup> MS. JONES: No. No.
- 6 MR. HURLEY: So they --
- MS. JONES: The -- the question was, was anybody here
- 8 tonight to speak as to the health effects of
- 9 chromium, and unfortunately, no, we did not bring
- anyone since we know that no one is currently being
- exposed.
- MR. HURLEY: But there's potential exposure. Can you
- get those and have them mailed to us?
- MS. JONES: Yes, I can do that.
- MR. HURLEY: Thank you. Okay. You mentioned city water
- supply if any of the residential wells become
- contaminated. At whose cost? city water supply?
- <sup>18</sup> Who --
- MS. JONES: The line --
- MR. HURLEY: -- pays --
- MS. JONES: -- the line would be installed at the cost
- of the responsible party.
- MR. HURLEY: So there'd be no cost to the homeowner?
- MS. JONES: For the installation of that water line, no.
- MR. HURLEY: Okay.

# DHEC Public Meeting, In Re: EFP Products State Superfund Site 2/5/2008

- UNKNOWN MALE: You have to pay for the water meter.
- <sup>2</sup> MS. JONES: Probably.
- MR. HURLEY: Any way I can get my well tested?
- MS. JONES: Not by DHEC regarding -- related to this
- site. We -- we don't feel the need to go out and
- sample private wells since we know where the
- 7 contamination is on this property.
- 8 UNKNOWN MALE: Even -- even if you --
- 9 MR. HURLEY: Now, the groundwater --
- UNKNOWN MALE: -- know the groundwater is --
- MR. HURLEY: -- flows in -- underground, and we don't
- know where that goes.
- MS. JONES: But -- but the two maps that I -- I
- placed up there, we know where the contamination
- is. We know where -- we know which way the
- groundwater is flowing, and we know where currently
- the contamination is.
- MR. HURLEY: Okay. On behalf of a homeowner, I'd like
- DHEC to at least reassure me by testing my well.
- MS. JONES: Thank you.
- MS. VINCENT: Hold on just a minute, sir.
- MR. HILTON: Hi, I'm John Hilton.
- MS. JONES: Hello.
- MR. HILTON: You didn't answer the question about which
- way the water is flowing under the plant.

- <sup>1</sup> MS. JONES: Southeast.
- UNKNOWN MALE: Do you have a well there?
- 3 MR HILTON: Thank you.
- <sup>4</sup> MS. JONES: Yes.
- 5 UNKNOWN MALE: Does it have contamination?
- 6 MS. JONES: The question was which way is the 7 groundwater flowing, and I said toward the 8 southeast, which is away from the residential 9 development. He asked if a well was installed in 10 that area; I said yes. And then the third question 11 Was there contamination in that well? was: 12 the farther-most well that we have in that 13 location, no, there was not.
- 14 MR. PENLAND: Steve Penland. I can address some --15 maybe some of the health concerns. I did a map of 16 the folks who lived down Campbell Road and within, 17 really, a half a mile of the 24 houses that's 18 there, there's been 11 cases of cancer. In those 19 11 they're cluttered around on both sides of the 20 plant, and I was going to supply that with y'all --21 with a copy of all the -- the cancer, that -- from 22 long-term residents. Now, someone that's lived 23 there for maybe two or three years, it's not, but 24 -- but the cases are -- are right there from all 25 the way down the road, and that -- and that was the

```
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 1
          reason that I would like to get my water tested.
               And you mentioned five residential wells.
 3
          only know of three of my neighbors who said they
          were getting their wells tested.
     MS. JONES:
                 And I might've misspoke earlier when I said
                 I -- five initially were sampled; then I
          think we were down to four. One of them may have
          been at that -- the little store that was formerly
          located across the street.
10
     MR. PENLAND:
                   Yeah.
                          That's -- that's the Martins.
11
     MR. MARTIN: That's my well.
12
     MR. PENLAND: The Martins, the Carpenter, and the
13
          Davison.
14
     MS. JONES:
                 I have four wells that we -- that we sample,
15
          and I can -- I can show you the date on the --
16
          there are four residential wells that are sampled.
17
     MR. PENLAND: Can you -- I've listed three of them.
18
          What's the fourth one? Is it on the plant?
19
     UNKNOWN MALE: Steve, that's mine.
20
     MR. PENLAND:
                  Oh.
21
     UNKNOWN FEMALE: Yeah, but you would be Davison, you
22
          know, because --
23
     UNKNOWN MALE:
                    That's right.
24
     MR. PENLAND:
                   Yeah.
25
    MS. JONES: This is public information, so I --
```

- <sup>1</sup> MR. PENLAND: Uh-huh.
- MS. JONES: -- can give the addresses.
- <sup>3</sup> MR. PENLAND: Okay.
- 4 MS. JONES: 6357 Campbell.
- UNKNOWN MALE: Yeah, that's --
- 6 UNKNOWN FEMALE: But you --
- UNKNOWN MALE: -- that -- that'd be my mother-in-law.
- She's passed away --
- 9 MS. JONES: Okay.
- UNKNOWN MALE: -- but that well was tested.
- MS. JONES: Okay. And 6270 Campbell?
- MR. MARTIN: That's mine.
- MS. JONES: Okay.
- UNKNOWN MALE: 6270 would be --
- MR. PENLAND: -- Martin.
- UNKNOWN MALE: Yeah.
- <sup>17</sup> MS. JONES: 6145.
- MR. MCLEAN: That's mine.
- <sup>19</sup> MS. JONES: 6115.
- UNKNOWN MALE: That's the same well. Same well.
- MR. PENLAND: Same well.
- UNKNOWN MALE: Those two addresses are on the same well.
- MR. PENLAND: Yeah.
- <sup>24</sup> (Multiple attendees speak simultaneously
- without benefit of the microphone.)

### DHEC Public Meeting, In Re: EFP Products State Superfund Site 2/5/2008

### Page 46 1 UNKNOWN MALE: I'm sorry. MS. JONES: That's okay. MS. HALL: What -- what types of cancer was --MS. JONES: Just a moment. MS. HALL: What type of cancer --MS. JONES: What's your name too, please? MS. HALL: Sherry Hall. What -- what -- what was the type of cancer that was found? 9 MR. PENLAND: Four breast cancers, one prostate, two 10 brain cancer -- what was a -- what was a -- the 11 Chambers. Because they lost two -- two in their 12 family. 13 MS. PENLAND: Oh. Very complicated cancers. 14 MR. PENLAND: Yeah. 15 MS. JONES: There has been no cancer cluster study 16 performed in this area that I'm aware of. 17 MR. PENLAND: Uh-huh. 18 UNKNOWN FEMALE: My mother just -- excuse me -- was 19 diagnosed with ovarian cancer, and she lives on 20 Campbell Road. 21

- MS. JONES: It's very hard to associate --
- 22 MR. PENLAND: True, but -- but with 24 families --
- 23 MS. JONES: Yes, sir.
- 24 MR PENLAND: -- and to have 12 cases -- I didn't even
- 25 include the 13th one which is a mile away --

- <sup>1</sup> MS. JONES: Yes, sir.
- MR. PENLAND: It -- it just about -- we just lost
- another Campbell -- person by that name.
- MS. JONES: We haven't -- we haven't determined there to
- be any correlation between this site's
- contamination and exposures off the property. I --
- I don't have any better answer for that since we
- have not conducted a study to evaluate that.
- 9 UNKNOWN MALE: Are you planning on doing a study to do
- that?
- MS. JONES: Yeah. Well, we can take that list back and
- give that to someone else that's more qualified to
- answer that question.
- MR. HALL: Charles Hall. Are you planning on doing an
- studies to that?
- MS. JONES: As I just said, we can take that list back
- and -- and see -- sorry. We can take that list
- back. Since I'm not qualified to -- to state
- whether a study should be done or how it could be
- done, I can take that list back and this
- information and -- and let those people -- somebody
- else determine that. But yes, I can -- I can relay
- the information. Absolutely.
- MS. CRAGO: My name is Tammy Crago and I have lived off
- of Paraham Road near the Vander Lake ferry for the

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          past ten years. I left a message on your machine
          probably about a week and a half ago and did not
          hear back from you, so I have several questions I
          would like to be answered.
               First, I'd like you answer Tom's question.
          You all have been testing in this area since
 7
          1997 --
     MS. JONES:
                 Correct.
 9
     MS. CRAGO: -- and -- and we just were informed of it a
10
          week and a half ago. Why? What -- and what
11
          prompted you to finally send us something?
12
     MS. JONES:
                That's a good question.
13
     MS. CRAGO: And I want an answer, please.
14
     MS. JONES: Okay. You will. We were using that time to
15
          collect information. We did have information
16
          available, and I could have come to you whenever
17
          the investigation was complete. I could have come
18
          and said, "Here's our data; here's what we know."
19
          I waited until now --
20
     MS. CRAGO:
                 That would've been nice, because I have
21
          three small children, and I could have gotten my
22
          well tested to make sure they were safe.
23
     MS. JONES:
                 We would've made sure that we sampled any
24
          well that -- that we thought there would've been a
25
          concern in. And we -- if -- if this contamination
```

Page 49 had been migrating off site, we would've come to you much sooner. I'm sorry. We used this time --3 the past year and a half to evaluate our options for cleanup so we could come to you and tell you 5 how we were going to proactively address this 6 contamination. We were not as concerned with the community, because we know the contamination is 8 limited to on-site. - 9 UNKNOWN MALE: You know that now, but not -- not for a 10 -- last 13 years where people would be -- could --11 could be getting contaminated. 12 MS. JONES: That was why we were doing our studies. 13 know, we sampled --14 UNKNOWN MALE: Yeah. But --15 MS. JONES: -- these residential wells --16 UNKNOWN MALE: -- but you're saying that you knew it was 17 chromium there, right? It was like 15 years back 18 when you were studying to see where the chromium 19 was. You didn't know where it was, but nobody 20 around was informed about it. I bought a house --21 you know, next -- I mean, I -- I bought a house out 22 east side of Paraham and Campbell Road. I wouldn't 23 buy a house if I knew there was going to be --24 MS. CRAGO: Me either. 25 UNKNOWN MALE: -- contamination of chromium next to me.

```
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     MS. CRAGO: And we built there.
     MS. JONES: And I believe that's why we -- in 1997 we
 3
          started sampling the nearest residential wells that
 4
          -- that would've shown any impact. We sampled
 5
          those -- those five that I mentioned earlier which
 6
          we're down to four now. That's why we initially
 7
          went out and sampled those to make sure there was
 8
          no hits in those. And if there was no hit there,
 9
          we didn't feel the need to go any further.
10
               But -- but back to your question, ma'am. I
11
          apologize. I -- I think Gary and I might have
12
          gotten our signals crossed in -- in who was calling
13
          somebody back. I thought maybe you had already
14
          received a phone call, and I do apologize that --
15
          that we didn't call you back.
16
     MS. CRAGO: For anybody who's interested, I am having my
17
          water tested at Prism Laboratories.
                                                That's in
18
          Charlotte. And also, I know there's a Carolina
19
                  It's -- it cost me $100 to have my well
          Water.
20
          tested for metals including chromium and the --
21
          what's it called?
22
     MS. JONES:
                Hexavalent?
23
     MS. CRAGO: Hexavalent chromium --
     MS. JONES: Uh-huh.
25
     MS. CRAGO: -- which we've got that test back; it was
```

okay. We're waiting for a few more days for the other test to come back.

But I don't think that we should have to pay to have our wells tested. You're testing some of these wells quarterly, so that means you must be concerned that the contamination could spread.

And my next question is: If this site is disturbed, is it going to increase the chances of the chromium spreading and contaminating the wells that are not already contaminated?

- MS. JONES: If the area over that plating bath area, that -- the -- the -- the floor, if that is disturbed, there is a potential, yes, that that contamination -- when it rains or any rainwater infiltrates it, that it could spread and it could get into the groundwater, yes.
- MS. CRAGO: So that's the reason why you think it would be safer for our health to keep that building there rather than take it down?
- MS. JONES: The keeping --
- MS. CRAGO: I don't want to just do -- do the easy -
  get -- take the easy way out and the most -- you

  know, the cheapest way out, because this area's

  growing by leaps and bounds --
- MS. JONES: Right.

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18

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 1
     MS. CRAGO: -- and --
     MS. JONES: By keeping that --
 3
     MS. CRAGO: -- we want what's best.
     MS. JONES: By keeping that floor in place, you --
          you're preventing any exposure to that soil.
          You're preventing it from migrating any farther
                 That's why any kind of -- I mean, you could
          -- you could demolish -- if there were no building
 9
          there -- if we'd have found this contamination
10
          outside the footprint of the building, we would
11
          have evaluated removal, which would've been very
12
          easy since it's outside. We would've also
13
          evaluated just placing a cap over that -- that --
14
          that would be one option to limit any migration.
15
          So these are all alternatives that we would look at
16
          and compare against each other.
17
               And in this case, we just feel that the
18
          limitations of -- of removing that soil and
          removing that floor are -- are a little tough or a
20
          little more expensive or just -- or just not as
21
          acceptable as possibly leaving that floor in place.
22
          We feel they're both protective for -- for future
23
          migration, for future contact. We feel that the
24
          alternative we selected is protective.
25
     MS. CRAGO: But I -- I feel like -- I feel my concerns
```

- are what's going to happen 15/20 years down the
- road? And you said it's going to be restricted for
- residential use. Could another industry come in
- 4 there and use that area?
- <sup>5</sup> MS. JONES: Yes.
- 6 MS. CRAGO: And so that could -- that's ridiculous. If
- another industry is allowed to come in there and
- <sup>8</sup> use that area again, then they could disturb the
- chromium that's already in the ground and -- and
- cause more contamination.
- MS. JONES: Well, that's why the restriction would be
- placed on the property. They would have to
- maintain that -- that floor -- that cap over that
- area. They could not come in and do anything to
- destroy --
- MS. CRAGO: Plus the people who'd be working. There
- would be -- I don't know who would want to work
- there.
- You told us the -- the levels of chromium
- found in the soil. You never did tell us the
- levels found in the -- the -- the shallow water and
- the bedrock. What were those levels?
- MS. JONES: Oh, that's -- that's -- okay. Good point.
- It -- it was on that map; it's just very hard to
- see up there.

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 1
     MS. CRAGO: I think we saw the soil; I didn't --
     MS. JONES: Uh-huh.
     MS. CRAGO: -- see the -- the water.
     MS. JONES: You're right.
     UNKNOWN MALE:
                    The -- the target minimum was 0.1
          milligrams. Did you -- I never did hear what the
          exception was.
     MS. JONES:
                 In the saprolite, the shallow?
     UNKNOWN MALE:
                    Or either.
10
     MS. JONES: Okay. Well, I -- I -- I'll give you both,
11
          but in the shallow, the highest level of total
12
          chromium was 20 micrograms per liter compared to
13
          that .1.
14
     MS. CRAGO:
                Micrograms or milligrams?
15
     MS. JONES: I'm sorry. Milligrams.
16
     UNKNOWN FEMALE:
                      Yeah.
17
     MS. JONES: Excuse me. Excuse me.
18
     MS. CRAGO: Big difference.
19
     UNKNOWN MALE: So 200 times?
20
     UNKNOWN FEMALE:
                      Wow.
21
     MS. JONES: The numbers ranged from non-detect, .4, .3,
22
          12, 13, and 20.
23
     MS. CRAGO: And what about the deep water?
24
     MS. JONES: I'll give you a range: .2, .5, 2, 16, 110,
25
          120, 300, and 380.
```

- MS. CRAGO: And that's just why you did not inform us of
- that.
- MS. JONES: I'm sorry it was not able to be read on the
- 4 map. I apologize.
- MS. CRAGO: I also want to let everybody know, if you're
- interested, you can purchase something at Lowe's or
- Home Depot called a "reverse osmosis system." It's
- a cost of about 150 to \$170. My husband installed
- 9 it under our kitchen sink this weekend, and it
- takes -- it's supposed to take out everything
- including chromium.
- UNKNOWN FEMALE: Your well tested negative for
- hexavalent chromium?
- MS. KREGO: Yeah. It -- that -- we -- we haven't gotten
- the other test back yet.
- UNKNOWN FEMALE: Well -- so -- so that -- there's a
- chromium -- free -- that occurs naturally?
- MS. CRAGO: Right. Right.
- UNKNOWN FEMALE: And that's okay?
- MS. CRAGO: Right.
- MS. VINCENT: And you're next.
- MS. PENLAND: Thank you. I have a question. I noticed
- on your evaluations you talked about the risk to
- workers --
- MS. JONES: Yes, ma'am.

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     MS. PENLAND: -- so I'm assuming you'd know what those
          risks to workers are if you evaluated them.
          you tell us what those workers would be exposed to
          over there on that site? What their health risk
          would be?
 6
     MS. JONES: If they were removing the soil, for
          instance --
 8
     MS. PENLAND: Yes, yes.
 9
     MS. JONES: -- in that area?
10
     MS. PENLAND: If any -- I'm assuming you mean -- I'm
11
          back to her disturbing --
12
     MS. JONES:
                 Right, right.
13
     MS. PENLAND:
                   -- issue here.
14
     MS. JONES:
                Okay. One risk I was thinking of was heavy
15
          machinery. And we evaluate everything. But in the
16
          -- the other risk would be highly contaminated
17
          soils with chromium. They would have to wear
18
          certain protective clothing in order to be able to
19
          remove this soil.
20
     MS. PENLAND: And what would that do them if it got on
21
          them?
                 That's the -- I mean, that is the health
22
          risk: not the wearing of the suit --
23
     MS. JONES:
                 Well --
24
    MS. PENLAND: -- but the fact that they need to wear the
25
          suit.
                 So I'm assuming there's some kind of risk
```

Page 57 that you know about that you would put this suit on them. 3 UNKNOWN MALE: Skin contact. 4 MS. PENLAND: If you --UNKNOWN MALE: Skin contact. 6 MS. PENLAND: And what would that do to them? UNKNOWN FEMALE: Are you talking about just if somebody 8 went to work there, or --MS. PENLAND: I'm talking about the risk that --10 MS. JONES: Okay. MS. PENLAND: -- were on every one of her evaluations 12 that talked about workers being exposed. 13 (Multiple attendees speak simultaneously 14 without benefit of the microphone.) 15 MS. OLIVA: I was to preface by saying that I'm not a 16 risk assessor, but my understanding of the reason 17 why chromium is a concern with respect to health --18 the main reason is due to inhalation, and that's 19 why excavating the soils inside a building would 20 pose a -- a potential risk. 21 MS. PENLAND: Well, is it going to get in the air if 22 they remove it -- is it going to get in the air if 23 they remove it and be down our road? 24 (Multiple attendees speak simultaneously

without benefit of the microphone.)

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 1
     MS. PENLAND:
                   Well, true.
                                 Okay.
     MS. VINCENT: May I ask your name?
 3
     MS. PENLAND: Judy Penland.
     MS. OLIVA:
                 If -- if excavation of the soil were to
          occur, it would be done under controlled
          circumstances to minimize any escaping of the --
          the -- the -- the soil into the air outside the
 8
          building. And that would be part of the
          environmental health and safety program.
10
     MS. JONES:
                 Did -- let me make sure we finished
11
          answering her question.
12
     MS. PENLAND:
                   No.
                         I'm not done.
13
     MS. JONES:
                 Okay.
                        Then let's make sure we finish her
14
          question.
15
     MS. PENLAND: My other question was: Say you do all
16
          this and you've got the deed restrictions.
                                                       Is that
17
          going to keep some other company from coming in
18
          there and deciding they want to build on that
19
          property, and they start messing with that soil
20
          that's down in that old lagoon or over here on the
21
          side the -- that's contaminated?
22
               I -- I know that that lagoon was, at some
23
          point, very seriously contaminated because a dog on
24
          the road went over there, drank some of the water,
25
          and died right beside the pond. I know that for a
```

- fact. Saw it with my own eyes.
- MS. JONES: Uh-huh.
- MS. PENLAND: So I -- I know that at some point that's
- been very dangerous.
- MS. JONES: Those restrictions will be placed on the
- <sup>6</sup> property. They --
- MS. PENLAND: And they won't be able to build where any
- of this soil is located?
- 9 MS. JONES: Correct. That -- that restriction is placed
- on the property.
- MS. PENLAND: And just for clarification on the cancer
- issue --
- MS. JONES: Yes, ma'am.
- MS. PENLAND: -- every property that -- the houses
- across the road and the houses to each side of that
- plant have had cancer. All of those in the
- perimeter.
- MS. JONES: The ones that we were sampling?
- MS. PENLAND: Yes.
- MS. JONES: Okay.
- MS. PENLAND: Yes.
- MS. JONES: Okay.
- MS. PENLAND: I know -- I know one of them. I think all
- of them --
- UNKNOWN MALE: All three of them.

- 1 UNKNOWN FEMALE: All three of them.
- MS. PENLAND: Then there's cancer there.
- MS. JONES: Okay. Jean, you might want to clarify
- something I answered about the . . .
- MS. OLIVA: With respect to the lagoon, that area was
- excavated in the 1980s. It's the material that had
- been disposed of in that area.
- MS. PENLAND: So it's not there anymore?
- 9 MS. OLIVA: That's correct.
- MR. MARTIN: That -- that's not true. It smells like a
- radiator shop down there if you go around in the
- evening. You ride a tractor around it, you go down
- next to the woods, it smells like an old radiator
- shop with its acids flying around.
- MR. HENSING: Hi. I just wanted to take a minute. I
- was on the internet researching hexavalent chromium
- cleanup while you guys were talking, and I actually
- found a similar -- I don't want to play -- I don't
- want to take anything away from your excellent work
- or anything like that, but I wanted to throw this
- out there.
- There was a metal plant in Washington State
- during the '50s and '60s that was cleaned up
- recently in 2002. They -- they mentioned in the
- report that I read from the EPA many of the things

that were mentioned tonight. The first thing they tried was to remove all the dirt, which was one of the proposals I think that was mentioned, and that was ineffective. So the next thing they did was they actually razed the building. They leveled the building and they injected some kind of chemical into the soil which they said eliminated all traces of chromium within a few days. It's some kind of catalyst that reacts with it, or whatever, and transforms it to some non-dangerous/-lethal form of the thing.

So I'm wondering why you would be leaning towards leaving the floor and leaving the building intact versus maybe going more aggressive and getting rid of it within a few days. My name is Robert Hensing.

- MS. JONES: That was just not an alternative that we evaluated. If -- if you're suggesting it, we will take that into consideration.
- MS. VINCENT: We have a question here.
  - MS. JENKINS: Hi, I'm Lesa Jenkins. I live on Leland
    Court and I'm, kind of, in this profession. I'm in
    environmental engineering. Just wanted to let you
    know -- a lot of your questions had to do with your
    wells and your water source. Campbells Road is a

Page 62 1 ridge line. MS. JONES: Thank you. MS. JENKINS: Everything that's on the Rock Hill side flows towards Rock Hill; everything that's on the 5 Clover side flows towards Clover. This site is on 6 the side. However, on -- for DHEC, just to quieten some of this, at \$100 per family, how much would it cost, you know, to go ahead and conduct this so that it would quieten some of the concerns -- and 1.0 have these wells tested? You're talking about a --11 versus these million dollars, this is just a drop 12 in a bucket. Ten thousand for 100 residents at 13 \$100 a pop. If you use your lab, it would be less 14 than that. 15 The other thing was on the site: the soil 16 cleanup. What I saw up there was -- at first, when 17 I evaluated your Option S-2, I liked it; I thought 18 it was good. Then I got to thinking about as long 19 as that building's there, we have an eyesore that 20 nobody's going to use, which affects the property 21 value, eventually, in our community. I think the 22 best alternative probably would be to get rid of 23 that soil, and like they said, the lagoons. 24 dog died, he probably drank water that was in the

lagoon at the time and that's not the case no more,

- but that's -- I just want to let them know about
- the ridge line, and --
- MS. JONES: Okay.
- 4 MS. JENKINS: -- about the water actually --
- <sup>5</sup> MS. JONES: You're absolutely right about the ridge
- line. Thank you for bringing that up.
- MR. HILTON: Thank you. John Hilton again. Thank you
- for your comments. Is there any definition to the
- 9 circle on the map up there?
- MS. JONES: That -- that's a 1-mile radius --
- MR. HILTON: One mile --
- MS. JONES: -- from the --
- MR. HILTON: -- radius from --
- MS. JONES: -- site, and that's --
- MR. HILTON: -- the point --
- MS. JONES: -- the same map that we have over here.
- MR. HILTON: Okay. I think that's it.
- MS. FERRARO: Hi. I'm Julie Ferraro. My first question
- is: What is the deadline for DHEC's decision on
- the site? Was there a deadline set?
- MS. JONES: That March 5th date, or March -- I'm sorry
- -- 7th.
- MS. FERRARO: So you will have a decision as of
- March 5th?
- MS. JONES: We would like to have all your comments

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 1
          received by that time, and then we will -- we will
          start evaluating your comments --
     MS. FERRARO:
                   Right, but what --
     MS. JONES:
                And so it will be shortly --
     MS. FERRARO: -- what is --
     MS. JONES: -- shortly thereafter. I'm not sure if it
          will be a week or -- or two weeks --
 8
     MS. FERRARO: And then once you do have your written
 9
          decision, how long will you give the SPX to clean
10
          that up?
11
     MS. JONES: They will --
12
     MS. FERRARO:
                   To be --
13
     MS. JONES:
                -- they will immediately begin working with
14
          designs, but there -- there is no specific time
15
          frame for when the contamination has to be cleaned
16
          up.
17
     MS. FERRARO: So that could take years --
18
     MS. JONES:
                Tt. --
19
     MS. FERRARO: -- more?
20
     MS. JONES:
                It could.
                             It could.
21
     MS. FERRARO:
                   So potentially, from all this amount of
22
          years, we can be still be affected by the
23
          groundwater and everything else, because it can --
24
          it was ten years since you've tested it, now it
25
          could be another ten years before we start seeing
```

- anything, and by that time, who knows how many more people are going to die.
- MS. JONES: That's why our monitoring would continue

  while they are conducting this remedy and while

  they are placing -- getting their tests together -
  I'm sorry -- their plans together --
- <sup>7</sup> MS. FERRARO: Uh-huh.
- MS. JONES: -- for the remedy. They will be continuing
  to monitor the wells that we have been sampling
  quarterly and annually. They will continue to do
  that.
  - MS. FERRARO: And I just want to say I am for having

    DHEC come out and test everybody's wells. I think

    that would be a minimal thing to appease the

    community, and I don't think that should be a whole

    lot to ask considering how long we've had to wait

    on the decision for this.

I think, just to appease the community and put everybody's mind at ease, it's not that -- you know, if you just go within your mile radius or however, you know, big you would want to go -- what you've sent out as far as all your -- your -- your letters right now, I think that wouldn't be such a huge thing to ask DHEC to do.

MS. JONES: And which community do you live in?

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23

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 1
     MS. FERRARO: I live in Vander Lakes.
 2
     MS. JONES: Vander Lakes. Okay. Thank you.
 3
     MR. CLARY: My name's Chris Clary. I live on Tamarack
          Drive, Campbell's Crossing. To what extent did you
 5
          do your underground water testing for all the
 6
          aquifers in the area?
 7
     MS. JONES:
                "To what extent" meaning what was the
 8
          deepest?
 9
     MR. CLARY:
                 Yes. How did you determine which way the
10
          water's flowing?
11
     MS. JONES:
                Jean or Tom, you may be better qualified to
12
          answer this question, but the . . .
13
     MR. BOLYARD:
                   Tom Bolyard with Enviro-Pro. We did the
14
          assessment VRI on the site out there, drilled most
15
          of the monitor wells, and our ongoing -- doing the
16
          ongoing sampling on the site up here. We have, as
17
          -- as Angie indicated, about 30 wells across the
18
          site:
                 shallow, deep, intermediate. And basically,
19
          every quarter we do a portion of those; every year
20
          we do all the wells and come up with a groundwater
21
          contour map that shows the groundwater flow.
22
          every year, we, you know, measure all the levels on
23
          all the wells, and I can tell you that the
24
          groundwater flow hasn't really changed out there
25
          for the -- about the last 12 years that I've been
```

- involved.
- MS. JONES: But is -- is your question why do we put the
- wells where we put them and how deep did we drill
- 4 them?
- MR. CARY: I have a pesticide license because I have a
- little landscape business on the side that required
- to have that. And in studying to get the license,
- they tell you, you cannot really, truly, accurately
- determine which way the groundwater is flowing
- underneath the soil because of the difference and
- the variations of pressures. It's like standing on
- a mountain and saying, "All the water runs
- downhill." That's not true. It could be forced
- upward; it could be forced to the left, right,
- north, south, not just southeast.
- MS. JONES: Uh-huh. But I -- I think what Tom was
- trying to explain was we have enough wells in that
- $^{18}$  area, and --
- MR. BOLYARD: We have a whole network of wells. It's
- not just one or two bedrock wells out there. You
- know, there are --
- MS. VINCENT: Tom, they can't hear.
- MR. BOLYARD: Okay. We -- we take water level
- measurements in all the wells, and it's a network
- of monitored wells out there, shallow and deep

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 1
          bedrock wells. And like I said, over the last
          several years, you know, we have developed this
 3
          database that shows which way groundwater's moving.
          It's moving, basically, to the southeast and then
 5
          to the east-southeast and a little bit around
                  You know, it's not all moving directly in
 7
          one line, of course, because the topography
 8
          changes. And the bedrock wells, it is more
          difficult to determine than a shallow well, for
10
          instance. But with a network of wells out there,
11
          you can -- you can characterize the groundwater
12
          flow.
13
     MR. CLARY:
                Do these wells trap?
14
     MR. BOLYARD:
                   If --
15
     MR. CLARY: Does any of the chromium get through?
16
     MR. BOLYARD: No. They don't trap anything. It -- it
17
          flows through.
18
     MR. CLARY:
                 That's my concern.
19
               (Multiple attendees speak simultaneously
20
               without benefit of the microphone.)
21
     MR. BOLYARD:
                  Well, that's -- again, that's why we have
22
          a network of wells and that's why we sample the --
23
          the bedrock water supply wells around the site, to
24
          make sure that that isn't happening; that it's not
25
          going half a mile away from the site.
```

- MS. FERGUSON: My name's Debby Ferguson. Your network
- or wells, is it -- is it all around the perimeter,
- upgrade and downgrade of groundwater flow on the
- 4 site?
- <sup>5</sup> MS. JONES: Yes, it is.
- 6 MS. PENLAND: How deep is the deepest --
- 7 UNKNOWN MALE: 140.
- MS. PENLAND: Judy Penland. How deep is the deepest
- well that you dug? Or, you know, gone down?
- MR. BOLYARD: It's at a -- right now, about a 150 feet.
- MS. PENLAND: Okay. And our well is 320 feet, you know.
- Have you gotten to that water down there?
- UNKNOWN MALE: And the water supply of all the
- surrounding -- most of them are 200-plus feet.
- 15 (Multiple attendees speak simultaneously
- without benefit of the microphone.)
- MS. HENSING: I -- I have one quick question. Kelly
- Hensing. Can we -- can we as a public say, "Yes.
- We like your proposals, but as to testing the well
- water in the 1-mile radius" -- I mean, can that be
- taken into consideration if --
- UNKNOWN FEMALE: And make DHEC have to pay for it?
- MS. HENSING: Yes.
- MS. JONES: That part I don't know. Well, we will
- definitely take it into consideration.

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 1
     UNKNOWN FEMALE: Well, wouldn't it -- wouldn't it be
          more -- wouldn't it be a good -- wouldn't it be a
 3
          good part of their corporate social responsibility
          plan to do that? And can't they take out some type
          of environmental liability insurance to where if
          they took out a $2 million policy and it cost less
          than that to clean it up, they get the money back,
          or if it cost more than that, they have to pay for
               Can't their environmental consultant come up
          it?
10
          with some type of environmental liability insurance
11
          policy for that?
12
     MS. OLIVA:
                 That's nothing I've done before.
13
     UNKNOWN FEMALE:
                      There -- there are policies out there
14
          that do it, because when you buy and sell property,
15
          you can get the environmental liability insurance
16
          premiums to do it.
17
     MS. OLIVA:
                 I don't think it's quite as easy as that.
18
     MS. VINCENT:
                   I don't think they can hear her.
19
     MS. OLIVA:
                 I don't have personal experience with it,
20
          but I don't think it's quite as easy as you're
21
          making it sound.
22
     UNKNOWN FEMALE:
                      I'-- I know it's not but --
23
     MR. HALE:
                Frank Hale. Could you describe this
24
          treatment method, GW-4A? What -- what material do
25
          you inject and how does that work, exactly?
```

- MS. JONES: The -- the -- we would have to do

  some design studies to determine what type of

  material would be injected. What their -- we don't

  -- Jean, I don't believe we've decided on what that

  material would be to this point.
  - MS. DICKMAN: Hi, I'm Colleen Dickman, and I live in Vander Lakes in the 1-mile radius -- actually four-tenths of a mile from the plant. Our well is 325 feet and that's -- and you guys went, what, 150? So I'm really concerned about that. That was the first question. And is it standard for you to do the 1-mile radius, or is there some concern -- why did you pick the mile? I mean, there must be some risks in that.
  - MS. JONES: Okay. To answer your first question, the deepest well on-site was around 150. The residential wells that we are currently sampling around the property are much deeper, say, 220. So so we have gone deeper on on the residential wells. We realize that the the private wells are are deeper.

That one-mile radius -- I started getting a lot of phone calls from people after I sent out the flyers, and I was trying to figure out where they lived in relation to the site, so I just -- I

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 1
          thought this map would represent the subdivision
          and just to give you an idea -- and me -- how far
          away you were from the site. There -- there's no
          standard for listing a 1-mile. I just wanted to
 5
          show people when they came here where their house
 6
          was in relation to the site from an aerial shot.
     MS. DICKMAN:
                   And I also think that --
     UNKNOWN MALE: Did you inform --
     MS. DICKMAN: -- DHEC should --
10
     UNKNOWN MALE: -- everybody in a mile --
11
     MS. DICKMAN: -- consider --
     UNKNOWN MALE: -- 1-mile area?
13
     MS. DICKMAN:
                  -- testing our wells to --
14
     MS. JONES:
                Okay.
15
     MS. DICKMAN: -- within the 1-mile radius.
                                                  Vander
16
          Lakes.
17
     MS. JONES:
                 Thank you.
18
     UNKNOWN MALE:
                    I don't know if my home is within a
19
          1-mile area, but I didn't get nothing from you guys
20
          in the mail. The only copy I got was from my --
21
     MS. VINCENT:
                   Repeat --
22
     UNKNOWN MALE: -- homeowner's association.
23
     MS. JONES:
                 His question was that -- or he -- he made
24
          the statement that he did not receive a flyer in
25
          the mail; he's not sure if he's within that 1-mile
```

Page 73 1 radius. That 1-mile radius was not exactly where 2 we --3 UNKNOWN MALE: But what address -- to what address --4 you know, that Campbell Road? 5 MS. JONES: You're on Campbell Road? 6 UNKNOWN MALE: I'm on Campbell Road. I'm at 6715. 7 MS. VINCENT: That was sent a flyer. Yes, that was sent a flyer. 9 Pat, you may be able to help me answer this MS. JONES: 10 We looked online for the county website to one. 11 see what properties were near the site. 12 took a map, and I -- I drew the -- the main roads 13 that I thought that those people would want to know 14 what was happening at the site, not necessarily 15 that they were in any risk; but if they were 16 concerned about what was happening in their 17 community, I wanted to send them the information. 18 And there were certain roads that I had to select, 19 and certain roads that I did not select. And we 20 did put it in the newspaper as well, but --21 UNKNOWN MALE: Did -- did -- do you know -- I mean, this 22 is at 6247? 23 MS. JONES: Yes. 24 UNKNOWN MALE: Where was the mile go to? To what -- I 25 said, if -- if I were to do a study like that to

```
Page 74
          send and inform all the neighbors, I would say,
          "Okay.
                  That mile goes to 6720 or to 6713 -- you
          know, and I'm on 6715. So I don't know if it's --
          I'm outside the mile range or -- or the study that
          you done to send out flyers is not including
          everybody that is affected or could be affected.
     MS. VINCENT:
                  The county provided the department with a
          list of residents within a mile radius.
                                                    If your
          property boundary touched that line, even if you
10
          jutted out and had 25 acres further out, you were
11
          provided a notice. So I suspect if you didn't
12
          receive the fact sheet, it may be that that could
13
          be the situation.
14
               Also, the department took the -- the
15
          information that was provided by the county and --
16
          and also cross-referenced with 411.com trying to
1.7
          see if we can get anyone who may be a -- a renter
18
          or that wouldn't come up as a -- a -- as an owner
19
          of the property within that area. That is what we
20
          can come up with --
21
               (Multiple attendees speak simultaneously
22
               without benefit of the microphone.)
23
     MS. JONES:
                 Basically, we tried our best. We relied on
24
          the county website, and that's why if -- if -- if
25
          you do put your name on this mailing list, we can
```

- make sure that you receive a flyer in the future.
- MS. VINCENT: When you sign --
- UNKNOWN MALE: Did -- did -- did you do a mailing?
- MS. JONES: Did we do a mailing?
- UNKNOWN MALE: Did you mail out notifications?
- 6 MS. JONES: Yes.
- 7 UNKNOWN MALE: No.
- 8 MS. VINCENT: And I actually have extra copies here, if
- you'd like to have a copy.
- UNKNOWN MALE: That's not the point.
- UNKNOWN FEMALE: That's not true.
- MS. JONES: Okay. I --
- UNKNOWN MALE: This document was provided by some
- neighbor that got it off the website before you
- shut it down before all of us could print it off.
- MS. VINCENT: I'm -- it -- it's available on the
- website. I -- I have checked that, and it is
- available. We may -- we have had some temporary
- server issues that have temporarily knocked us off
- completely, but I'll be glad to -- if you will --
- I'm sorry. If you will kindly leave -- be sure
- your name is on this sign-in sheet, I will be sure
- that you will get other notices. But that's -- and
- we do -- like I said, we have extra copies if you
- did not receive one or did not see it on the -- the

```
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 1
          website.
     MS. JONES:
                 Sorry. She -- she -- she's taking the
 3
          microphone around so that it can be recorded.
     MS. HALL:
                Sherry Hall, Campbell's Crossing.
 5
          want to know that if the -- what amount of chromium
 6
          -- as the years have gone by, has it increased in
          these wells, has it decreased, or what are the most
 8
          recent levels, and are they increasing?
 9
     MS. JONES:
                 Jean, do you know that off the top of your
10
          head?
                 I -- I can say for the saprolite area, I
11
          know that that -- that blue circle that -- that's
12
          relatively stayed constant since '97.
13
     MS. OLIVA:
                 Yes. And -- and --
14
     MS. JONES:
                 Same for --
15
     MS. OLIVA:
                 -- the same --
16
     MS.
         JONES:
                 -- the bedrock?
17
     MS. OLIVA:
                 Yes.
                       The -- they've both stayed fairly
18
          constant. When EFP was operating, they were using
19
          one of the wells up in the northwest corner, and
20
          since they left, the concentrations in that area
21
          have gone down.
22
     MS. JONES:
                 I believe that well was pulling that plume
23
          toward that well, and once they stopped pulling off
24
          of that, the levels have -- have receded.
25
     MR. HILTON: Hi, John Hilton again. Thank you for
```

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 1
          making me feel comfortable about my well possibly
 2
          not being contaminated, but what I find really
 3
          irritating is that I live within a mile of the
          plant. I had to find out through a neighbor who
 5
          somehow found out. Your website's been down every
 6
          since he told me about it. I pay, as many of these
 7
          people do, the salary of the people that evidently
 8
          work in this county who can't find me at my house.
 9
          That really burns me up. Everybody -- the IRS --
10
          everybody else can, but on something like this, you
11
          can't find me to send me a letter?
12
     MS. JONES:
                I apologize. If -- if we didn't get the
13
          letter to you --
14
     UNKNOWN FEMALE: None of us got a letter. I mean, no
15
          one --
16
     MS. JONES: And -- and you're in the --
17
     UNKNOWN FEMALE: -- no one --
18
     MS. JONES: And you're in --
19
               (Multiple attendees speak simultaneously
20
               without benefit of the microphone.)
21
     MS. JONES:
                 And you're in Campbell's Crossing or Vander
22
          Lakes? Okay. I do not -- I -- if -- is
23
          Campbell's Crossing within one mile --
24
     UNKNOWN FEMALE:
                      Yes.
25
     UNKNOWN MALE:
                    Yeah.
```

```
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 1
     UNKNOWN MALE:
                   Yeah.
     UNKNOWN FEMALE: My house is in that circle.
 3
     MS. JONES:
                  Okav.
                (Multiple attendees speak simultaneously
                without benefit of the microphone.)
 6
     UNKNOWN FEMALE:
                       Paraham Road is off Campbell.
     MS. JONES:
                  I just want to make sure I know where it is.
          This is Campbell. Is this Paraham?
 9
     UNKNOWN FEMALE: That is Paraham, yes, ma'am.
10
     UNKNOWN FEMALE: No, no, no, no.
11
     UKNOWNN FEMALE:
                       Yep.
12
     UNKNOWN MALE:
                     To the right of your fingers, Vander
13
          Lakes, and to the left is Tamarack, Campbell's
14
          Crossing.
15
                (Multiple attendees speak simultaneously
16
               without benefit of the microphone.)
17
     UNKNOWN FEMALE:
                       There you go. Campbell's Crossing.
18
     UNKNOWN MALE:
                     That's Campbell's Crossing.
19
     UNKNOWN FEMALE:
                       That's right. That's Campbell's
20
          Crossing; that's Vander Lakes.
21
     UNKNOWN MALE:
                     That's Vander Lakes.
22
                (Multiple attendees speak simultaneously
23
               without benefit of the microphone.)
24
     UNKNOWN FEMALE: So basically -- basically, the rural
25
          people got the letters, but people in the community
```

- did not -- where the majority of people would be.
- MS. JONES: And I was thinking it was just the opposite
- when I looked on the map and saw Vander Lakes. I
- 4 -- I thought they were included on our mailing list
- and not the Campbell's Crossing. I -- like you
- said, I would've preferred it to be just the
- opposite. I apologize if we did not send it to the
- 8 correct location.
- 9 UNKNOWN FEMALE: It should've been sent to both of them.
- They're both on there.
- MS. JONES: Correct.
- UNKNOWN FEMALE: It should have been -- been a little
- more thorough.
- MR. ALEXANDER: Yeah. Nelson Alexander. I live in
- Vander Lakes. I got two questions. One, I want to
- know if maybe the drought had something to do with
- prompting your decision to tell the people in the
- area.
- And the second thing is that I was -- built in
- that area, basically, because it was a booming area
- and your house were going up in value. And if you
- say that SPX is responsible for cleaning up their
- site, if I'm getting ready to sell my house this
- year and y'all put this in the paper -- and you
- sent a lot of these notices out that evidently

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          didn't get to some people, but they got to a lot of
          people -- now that you've opened up a can of worms,
          what am I going to tell someone who wants to buy my
          house?
     UNKNOWN MALE:
                     See, by knowing that, you're responsible
          to notify the people that are buying your house of
 7
          the potential risk of the chromium.
 8
     MS. JONES:
                 Well, we notified the public because this
          site is in your community, not necessarily because
10
          I felt that you were drinking contaminated water.
11
     MS. CRAGO:
                 But answer the first question he had.
12
     MS. JONES:
                 Right.
                        I -- I -- that's what -- I was going
13
          to ask him the first question. Can -- can you --
14
     MS. CRAGO:
                 What prompted you to --
15
     MS. JONES:
                 Oh, was it the drought.
16
     MS. CRAGO:
                 -- to start acting now? We -- we --
17
     MS. JONES:
                 This --
18
     MS. CRAGO:
                 -- think you still should answer that.
19
     MS. JONES:
                 Okay.
20
     MS. CRAGO:
                 You've been testing this place for over ten
21
          years.
22
     MS. JONES:
                 Correct.
23
     MS. CRAGO:
                 What -- what magically happened --
24
     UNKNOWN MALE:
                    Yeah.
25
     MS. CRAGO: -- at that site that you are just now
```

- notifying us?
- MS. JONES: I got this document, and I reviewed it, and
- I came to a decision as to what would be the best
- 4 remedy to --
- MS. CRAGO: It took ten years to do that?
- 6 MS. JONES: To -- to complete the investigation; to
- install the wells; and to investigate under the
- plating bath area --
- 9 MS. CRAGO: You're telling me that took ten years?
- MS. JONES: Yes, ma'am. Yes, ma'am.
- MS. CRAGO: There's something wrong with that picture.
- MS. JONES: Yes, sir.
- MR. WEBB: I'm Alan Webb. I live at -- in Campbell
- Crossing, and I had a question about the injection
- of the material. Is the proposal that that will
- change that hexavalent to something else? And is
- that a permanent change? That's number one
- question.
- MS. JONES: Yes. The answer to that -- to both those
- questions is yes.
- MR. WEBB: Okay. And the other thing is, you know, I'm
- -- you know SPX didn't cause the problem --
- whatever their company name is.
- MS. JONES: Correct.
- MR. WEBB: And somebody back in the '50s caused the

Page 82 1 problem. I've been involved with these types of sites all my life and ten years is -- is probably 3 it, but if she came to us a while back and she had one-tenth of the information and told us that there 5 was contamination, we'd all be on her back and all 6 threatening to take her out to the nearest tree and 7 "Bring your own rope because we're going to hang 8 you." You people are beating up the wrong person. 10 You know, I think that the state -- it has taken 11 charge and is making that -- that property owner 12 responsible to clean up the mess. 13 And if you haven't got 100 bucks in your 14 pocket to go test your own well, you're in bad 15 I'm sorry. But if you have, go test it; if 16 you haven't, see if you can get a loan. It's not a 17 big deal, and I'm going to sleep well tonight. 18 don't know about the rest of you, but I'm a mile 19 away from this thing and it's -- and it's contained 20 pretty much on the site, so what -- what's your 21 gripe? Your griping about not getting a notice, 22 but you're all here. So you all know about it. Do 23 you just want to complain about something? 24 UNKNOWN MALE: Yeah, I want to complain, because what 25 happens next time there's something worse and we

Page 83 1 still don't find about it, unless we hear about it 2 from the neighbors? That's the problem. 3 MR. WEBB: Well, I mean, obviously, she's been working 4 on it; she got her information together --5 UNKNOWN MALE: It's not her that did it. It's the local 6 authorities. 7 MR. WEBB: Well, they're not here, so why are we beating 8 them up? 9 UNKNOWN MALE: Well, that's what needs to be 10 communicated to them. 11 (Multiple attendees speak simultaneously 12 without benefit of the microphone.) 13 UNKNOWN FEMALE: They're here to take our questions. 14 MS. JONES: I -- I appreciate your comment and at other 15 sites that may not have information on a -- on a 16 county website, we have gone door to door. 17 not go door to door here. I apologize for that. 18 thought that, by hitting the county website, I was 19 getting the residences that I needed to get. 20 cannot apologize any more for that, so I see both 21 sides at the table here. 22 I -- I do also understand that some people 23 want to be notified, and now some people are upset that now that that has been brought to light, their

property values may be decreased; or it's been --

25

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 1
          been brought to -- to light, or -- I -- I quess I
 2
          can't win. I'm in a catch-22 there. I need to
 3
          tell the public what's going on, and you also don't
          have any reason to be concerned about your property
 5
          based on where it's located. So that may be one
 6
          factor that I'm trying to give you here.
 7
     MR. MARTIN:
                  Bill Martin. I'm at 6270 Campbell Road,
 8
          right across the road from it, and I'd like to know
 9
          what the deed restrictions are going to be on it --
10
          how far away from the contaminated site?
11
     MS. JONES:
                 The restrictions will be placed on the EFP
12
          property -- only on that property.
13
     MR. MARTIN:
                  Okay.
14
     MS.
        JONES:
                 Not -- not on -- not on your property.
15
     MR. MARTIN:
                  Well, back before EFP closed up, I used to
16
          get a printout every quarter when they tested the
17
          water, and I haven't received once since they
18
          closed that business up. And they do test my well
19
          every quarter, but I'd like to get a printout on it
20
          so I know what's happening with it.
21
                 That's -- you're absolutely right. I didn't
22
          realize that -- that EFP was handling that.
23
          get that information to you. We can -- because
24
          it's submitted to DHEC and then I can turn around
25
          and send it to you. Absolutely.
```

- MR. MARTIN: My well is about 150 feet from one that's
- <sup>2</sup> contaminated.
- MS. JONES: Absolutely.
- MR. MARTIN: Thank you.
- MR. PENLAND: One -- one quick question. Steve Penland.
- Just one quick question: I don't want to do any
- rumors, but -- but I was told three weeks ago that
- 8 -- that a contract had been put out to purchase
- that property -- the 25 acres and the -- and the
- site -- from a -- from a trucking firm out of
- Charlotte, North Carolina. And I -- and I don't
- know that as a fact. It was just something that
- was passed on to me by a neighbor on it, and -- and
- so this would be something that would be rolling
- through that you need to check into.
- MS. JONES: Okay. I -- I'm not aware of any contract on
- that property, but it would not change the actual
- remedy that would occur on the property.
- MR. DICKMAN: My name's Ray Dickman, and I was just
- wondering how old that building is and how long is
- it going to be maintained for since you don't want
- any groundwater --
- MS. JONES: Uh-huh.
- MR. DICKMAN: -- getting into it --
- MS. JONES: Uh-huh.

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## Page 86 1 MR. DICKMAN: -- and has anybody checked that building 2 lately? 3 MS. JONES: How old is the building? I -- Jean, do you know? 5 MS. OLIVA: I believe it was built in the early '50s. 6 MR. MARTIN: It was built in 1955. 7 MS. JONES: Oh, the entire building? 8 MR. MARTIN? No. 9 MS. JONES: Oh --10 MR. MARTIN: Just out where they chrome-plating bath --11 MS. JONES: Okav. That front part area? 12 MR. MARTIN: The front part of it --13 MS. JONES: -- was in the '50s. And --14 MR. DICKMAN: Is anybody maintaining right now? 15 MS. JONES: The question was: Is anybody maintaining 16 that building right now? 17 MR. MARTIN: No. 18 MR. DICKMAN: Keep it structural, because you're saying 19 you don't want groundwater in there. 20 MS. JONES: Correct. 21 MR. DICKMAN: And how are you going to keep it from 22 getting groundwater in it if the roof's leaking? 23 UNKNOWN FEMALE: Structural integrity's what they're

MS. JONES: He -- he can answer that question. Sorry.

saying.

24

- I'm going to pass that one off.
- MS. VINCENT: Hold on just a moment, sir. Your voice isn't carrying well.
  - MR. PETERSON: Chase Peterson for SPX Corporation. We

    -- we -- we're responsible for that site, and we're
    responsible for maintaining that building, and to
    prevent rainwater from getting into that building
    and percolating through that concrete floor -- and
    maintaining the concrete floor -- the integrity of
    the concrete floor. And so we'll have to be doing
    inspections of the building; make reports to the
    agency; periodic reports on the inspections. And
    we'll hire an independent consulting firm, and
    they'll come in and do those inspections and submit
    the report to the agency and will make any repairs
    that are necessary.

UNKNOWN MALE: What are your future plans for that site?

MR. PETERSON: Well, we'd like to sell it to someone and

-- and then -- then they'd be responsible for -
and we -- we'd still be responsible for maintaining
those -- making sure those deed restrictions are in
place, but the party that takes it over would have
to assure us in a contract -- you know, maintain
the floor, maintain the roof, and everything.

UNKNOWN MALE:

Is somebody maintaining it now? is what

Page 88 I'm asking. 2 MR. PETERSON: Well, yeah -- yeah. I know. Well, what 3 happened -- what happened is -- what happened there is we go into the building -- we periodically 5 inspect the building and the area where the plating was to make sure there's no water in there, but the -- the tenant was EFP products; they were leasing the building from SPX Corporation, and they vacated -- terminated the lease and left. They cleaned up 10 the building, cleaned everything out, all the 11 hazards. We made sure they cleaned all the 12 materials out of the building, but when you have a 13 vacant building like that -- we boarded it up; we 14 locked it up. Tried to lock the gates, but all the 15 copper wire, you know, was stolen out of that 16 building, which happens to us whenever there's a 17 vacant building -- you lose -- people come in and 18 vandalize it, and -- and we lost a -- we lost a 19 quite a bit of copper wiring. And that's why the 20 telephone poles are down. They were taking the 21 wires off the poles and the poles fell. 22 -- so we have -- we have somebody coming because 23 the pole is leaning down -- this pole was leaning 24 down. They're coming in to -- we called BlueTec 25 Energy out in there; they're coming in and put the

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poles back in place.
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- UNKNOWN MALE: When was the last time it was inspected?
- MR. PETERSON: Huh?
- 4 UNKNOWN MALE: When was the last time it was inspected?
- UNKNOWN MALE: We -- we inspect it every quarter when we
- go out there and do our sampling. About two or
- three years before EFP left -- before EFP left the
- site about two or three years, which would be four
- or five years ago, I guess, they redid the floor
- and all the plating baths. They resealed the
- floor, and so it's -- it's in great shape right now
- 12 -- the -- the critical plating bath areas on the
- site.
- MR. STEADMAN: Paul Steadman, adjacent property owner,
- and I have a couple of questions. First of all,
- the monitoring wells and the private wells, when
- they're sampled quarterly and annually, does that
- just detect chromium on the day of the sampling, or
- is there any way to detect whether or not there's
- been any trace through there since the previous
- time of the sample?
- MS. JONES: That -- that water is collected that day, so
- it's what was in that well that -- at that time it
- was sampled.
- MR. STEADMAN: So anywhere between one and four days, if

```
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 1
          you will, per year you're checking to see if
          there's chromium present on those one to four
 3
          specific days?
 4
     MS. JONES:
                 Yes.
 5
     MR. STEADMAN:
                   Okay. And I'd say in the past ten years
          we've had more drought than we have had annual --
 7
          well, normal rainfall, at least historically -- and
 8
          if we were to have normal rainfall, do we know how
 9
          that would affect the migration of the chromium to
10
          other wells off the site?
11
     MS. JONES:
                 I can't speak to that. It would -- we've
12
          seen the trends that we have so far.
13
          depend on the amount of rainfall, the frequency of
14
          that rainfall.
15
     MR. STEADMAN:
                    Okay.
16
     MS.
         JONES:
                 I -- I -- I couldn't answer that.
17
     MR.
         STEADMAN:
                    Okay. And do we know what the effect
1.8
          would be -- that as this property is potentially
          developed in the future and there's more wells
20
          placed on the property, whether it's for industry
21
          or for agriculture or for residential growth, do we
22
          know how that's going to affect the aquifer system
23
          and the migration off-site?
24
     MS. JONES:
                 Well, first off all, there will be no
25
          residential development on this property.
```

Page 91 1 know, the contamination is still on the groundwater right now and that's what we need to remedy before 3 you could -- you know, you couldn't put a house 4 there and have a --5 MR. STEADMAN: Right. 6 MS. JONES: -- a well on it. 7 MR. STEADMAN: But if we had -- on the surrounding 8 properties, if we added wells, how would that 9 affect the draw and the plume and all that? 10 MS. JONES: It would depend on how deep those wells were 11 installed --12 MR. STEADMAN: Okav. 13 MS. JONES: -- and if they're pulling from that same 14 aguifer that is contaminated or not. 15 MR. STEADMAN: Okay. So it seems to me, then, that to 16 contain this site requires cooperation from the 17 adjacent property owners or limits the adjacent 18 property owners from what they can do on their 19 property for fear or concern that it's going to --20 we don't know the effect that it's going to have on 21 this contaminated site. And if we leave the 22 90-fold contamination that's present underneath the 23 floor of the building there and don't remove it, 24 then we're just exposing ourselves to future risk,

regardless of whether or not it's the -- the

Page 92 1 facility is maintained or not. And I'd just like to echo Tom Smith's concern 3 that to choose S-2 as a solution for the soil contamination leaves it in the hands of a private 5 party, whether it's a corporation or not. Corporations do go out of business, and it's still 7 then left on the hands of the citizens or -- and 8 taxpayers to then take care of the situation. you're relying on a third party to make -- to 10 determine whether or not Solution S-2 is going to 11 be successful. 12 MS. JONES: I think it's successful whenever you look at 13 our evaluation criteria. Is it protective? 14 Is it -- you know, does it prohibit anyone from 15 coming into contact with it? Yes. You know, it 16 meets those criteria if that cap is maintained on 17 it. 18 MR. STEADMAN: Yeah. 19 MS. JONES: Correct. And -- and once those -- so in 20 order to keep that floor intact, you have a deed 21 restriction on the property. So yes, there are a 22 lot of things that have to occur in order to keep 23 that soil where it is and for no one to come into 24 contact with it. And those were the options that 25 were placed in that alternative, and that's why

- they were listed out that way. So we feel that
  we've -- we have made that alternative protective.
- 3 MR. STEADMAN: I --

8

.9

10

11

12

13

14

15

16

17

18

19

20

21

23

24

- MS. JONES: They both will work. S-2 will work and
  S-3 will work. It's just a matter of which one is
  more feasible; which one makes more sense; which
  one's -- you know --
  - MR. STEADMAN: They both will work at the time they're implemented, but the -- the ultimate success -- I'll use that word -- that your cap -- that cap's -- integrity of the cap is maintained and is incumbent upon the person -- the person or corporation that purchased the property. And if they don't then do that, well then, who's to say that the integrity of the cap is maintained and that 90-fold contamination doesn't leach out any further into the soils or into the groundwater and --
    - MS. JONES: That's that once-a-year check that we've mentioned when a deed restriction's placed on a property, that it's reported back to DHEC to make sure that -- that we verify that the cap is in place, that the floor is intact. So we have certain protections that we feel work in certain instances with the deed restriction.

```
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 1
     MR.
         STEADMAN:
                    Okay.
         JONES:
                 I -- I do see your point. I -- I would love
 3
          to, if there's contaminated soil, sure, dig it up
          and get rid of it, but out in the open somewhere,
 5
          it makes perfectly good sense; underneath a
          building with a huge concrete slab that the
          building has a potential use for a future occupant,
          then -- then the line is not so -- you know, it's
          not so black and white. There -- there are other
10
          options you may be able to use.
11
     MR. STEADMAN:
                    Yeah.
                           Two more points. And that is if
12
          the direction of the aquifer has been documented as
13
          being to the southeast from the contaminated site,
14
          while it's away from some of these residential
15
          neighborhoods, which is good, it's heading to Lake
16
          Wylie and also towards other growth areas that are
17
          not shown on this aerial photograph, and that --
18
     MS. JONES:
                 That's why the sooner we can get out there
19
          with the remedy, the sooner we can, you know,
20
          mitigate that.
21
     MR. STEADMAN: And I would like to formally ask that
22
          DHEC would consider the potential remedy that
23
          Mr. -- I believe --
24
     UNKNOWN FEMALE: -- Hilton.
25
     MR. STEADMAN:
                   -- Hilton proposed or mentioned that he'd
```

seen online where you can essentially use some type of -- it sounds like a chelating agent that would bond the heavy metal and render them non-toxic. I think that should be considered and also that you should consider extending water service out to any of the neighborhoods in the proximity to the contaminated site so that they don't have to worry about their groundwater and what -- even if you are checking them for the presence of chromium one to four days a year, that's a lot of water going through those wells in between on the other 300 days of the year.

And the other question is if -- how can somebody buy that site and continue another industry there if they can't have access to water?

- MS. JONES: Maybe they don't need water. I don't know.

  Could it be a -- a storage unit? I mean, I -- I -
  T --
- UNKNOWN FEMALE: Where would you wash your hands?
- MS. JONES: -- I was purely speculating as to the use of that building.
- MR. STEADMAN: Right.
- MS. JONES: Maybe they would want their own water line
  and maybe they wouldn't need to use water. I don't
  know. I was just stating there's a building out

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Page 96 1 there; it may have some purpose; it may not. can't speak to that. 3 MR. STEADMAN: Okay. But just for industrial use going forward, that site is going to have to have water, and certainly, the neighbors will sleep better if they have city or county water out there. think that should be considered in one of the solutions particularly when some choices that could 9 cost 8 million are not being chosen. Thank you. 10 JONES: And there've been several comments -- and --11 and then we'll get to you, sir -- about the -- the 12 sampling the wells and running the water, and I --13 I believe what the department has tried very hard 14 to do is to put in as many wells as we thought --15 in the areas that we thought would show the 16 Where is it shallow? contamination. Where is 17 deep? How far out is it -- has it extended? 18 feel that we know where that contamination is, and 19 we did not feel the need to go and sample people's 20 houses. 21 I do understand your concern, but, you know, 22 from a scientific standpoint, we didn't see the 23 need to go any farther. But I'm not saying that 24 we're not taking that under consideration. We hear

your concerns, very much so, but I wouldn't just

necessarily run out and sample subdivisions nearby my site, unless I had a reason to think that the contamination had migrated that far.

And also the issue about that -- your wells only showing four days out of the year. You know, once that -- it's not just one molecule that hits your well and then keeps on going. It's -- it's a plume that would extend. So if -- you know, once you start to see some detections in your well, you would still see that. I don't think it would show up and then -- you know, if it's moving away, it's going to be in your well from -- from one sampling event to the next.

- UNKNOWN MALE: Independent of rainfall?
- MS. JONES: Yes.

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- UNKNOWN MALE: But previously, I thought you said you didn't know what the effects of a non-drought condition would be to the plume.
  - MS. JONES: I said I couldn't quantify. And I know rainwater and precipitation does affect the aquifers, yes. I couldn't tell you how much. If -- if it rained ten days out of the year, would that mean it would move -- it would migrate, you know, 2 feet more per year? I -- I couldn't tell you that.

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Page 98
 1
     UNKNOWN FEMALE:
                      Will your questions and comments from
          this public meeting be documented online or do we
          have to take time off from work to go look in the
          record at the York County courthouse?
     MS. JONES:
                 We have a -- a -- I'm not sure how we will
          get the transcript out to the public.
                                                  If that's a
          concern that you want -- you would like the
 8
          recording from this meeting to be placed, maybe,
 9
          online? Somehow if we could scan that in?
10
          look into that.
11
     UNKNOWN FEMALE:
                      Hi.
                            It appears that the highest levels
12
          of contamination are deeper. So again, with the
13
          concern is if the on-site wells are only 150 feet
14
          deep and the surrounding wells that are being
15
          tested are only 225, how do we know how bad the
16
          contamination is at 300/400 feet? My well's
17
          400 feet deep, and it's well into the bedrock, so,
18
          you know, where -- how are we going to be assured
19
          that a deep well's -- as deep as that is okay,
20
          because, obviously, the shallow water isn't so --
21
          so bad, and as you get down it's .380.
22
     MS. JONES:
                 Uh-huh.
23
     UNKNOWN FEMALE: That's quite considerably higher than
24
          it should be.
25
     MS. JONES:
                 Uh-huh.
```

- UNKNOWN FEMALE: So are you going to be testing any
  deeper than that, or is that just as far as you're
  going to go is 225 feet and you're done?
  - MS. JONES: As of right now, yes. And -- and Tom, maybe help me out. I know we did some studies on-site.

    We -- we did go deeper on-site than that 150, and we just encountered bedrock. We did not encounter any fractures. So we feel that since your well -- we didn't go -- well, Tom, how -- how deep did we go?
- 11 MR. BOLYARD: About 240 feet. Our -- our deepest well 12 was about 240 feet. We had no fractures for the /13 last 60 feet; it was solid granite; and that's why 14 we stopped going where we were. The -- the --15 again, the -- the placement of your well really is 16 much more critical than the depth of your well. If 17 you're, you know, not an adjacent property, then 18 you're much, much less likely to be ever impacted 19 by this site.
  - UNKNOWN FEMALE: And my other question is: Is there going to be any cost that will come back to the residents or is it -- will -- will it specifically be for the corporation?
- MS. JONES: It will be for the corporation.
- UNKNOWN MALE: I just want to let everyone know I got my

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DHEC Public Meeting, In Re: EFP Products State Superfund Site 2/5/2008

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          water tested this morning at Parr Laboratories.
          They're off the opposite way off Carowinds
          Boulevard. Forty-five dollars a sample, four
          metals.
 5
     MR. CAMPBELL: My name is Briant Campbell, and my
 6
          question pertains to the size of these contaminated
 7
          sites.
                  Either in acres or square footage, what is
          the approximate size of the two blue circles on
 9
          these maps over here to our right?
10
     MS. JONES:
                 Ooh.
11
     MR. CAMPBELL:
                    I mean, I'm wondering, are we --
12
     MS. JONES:
                 Yeah.
13
     MR. CAMPBELL:
                   -- talking about a half-acre? are we
14
          talking about a ten-acre site? I guess is my
15
          question.
16
     MS. JONES: Well, the entire site is about 25 acres,
17
          so --
18
     UNKNOWN FEMALE: We can get that information.
19
     MS. JONES:
                 Yeah. We can -- we can -- oh, yeah.
                                                         And
20
          the building is about a 70,000-square-foot
21
          building, so we'd have to just -- I think they're
22
          playing around with it in the back.
23
     UNKNOWN MALE:
                    It's three-quarters.
24
     MS. JONES:
                 Yeah.
25
     UNKNOWN MALE: That's 2 acres.
```

- MS. JONES: We think maybe 2 to 3 acres? Two to 3 acres
- in size.
- 3 MR. CAMPBELL: Okay. Thank you.
- 4 MS. JONES: Sure.
- MS. VINCENT: Who was next? I can't remember. Were you
- 6 next? Anybody else have a question?
- 7 MR. SMITH: Hi. I just -- I hope that DHEC will take a
- 8 -- a long, hard look it -- at this, as far as
- long-term. Okay? If the building -- whoever buys
- it -- I mean, I don't -- I don't know why somebody
- would, but if they did, to take on that problem and
- you don't have water and sewer out there -- there's
- nowhere nearby. I just don't see why somebody
- would -- would buy that site.
- MS. JONES: I don't know. Water could be run out there.
- You know, we -- one of our options included running
- water and sewer, so that is a possibility. But I'm
- not speculating as to who should --
- <sup>19</sup> MR. SMITH: Right.
- MS. JONES: -- buy or not buy that property.
- MR. SMITH: No. But you know, whoever did buy it, I
- just think that -- that -- you know, I just
- question, you know, how responsible that that
- person would be if you knew exactly what was under
- it. I mean, you know -- there's a -- a time and

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Page 102
          point when common sense comes into play, and as far
          as this site, the remediation of that really needs
          to be looked at, you know. And I'm sure, like this
          gentleman said, it's been done someplace before.
          There are plenty of these sites across the country.
     MS. JONES:
                 Uh-huh.
         SMITH:
                 And how many of these is that -- when you do
          your evaluation process, is that how you do it?
                                                             Do
          you look at sites that have been done before you,
10
          or you just say, "This is sort of a -- a basic
11
          example of how things are remediated"?
12
     MS.
         JONES:
                 You can do it both ways.
13
     MR.
         SMITH:
                 Okay.
14
     MS. JONES:
                 Any type of information that's out there,
15
          you can use that to --
16
     MR. SMITH:
                 Have you looked at -- you know -- you know,
17
          punched in contaminated sites that are -- were
18
          contaminated with chromium and other
19
          contaminates --
20
     MS. JONES:
                 Oh, ves.
21
     MR. SMITH:
                 -- that are similar? And then how were
22
          those sites cleaned up, and what was the best way,
23
          and -- you know, and -- because I would speculate
24
          that, you know -- you know, really, since the last
25
          15 years, we haven't had a lot of continuous
```

cleanup, you know. That's pretty evident just like with the site with the history here. You know, I just don't think that there's a -- a -- it's been -- I mean, Love Canal was one of the first ones, and it just -- but what bothers me a little bit as far as the length of this -- I know the Pole Branch Road site, we put in monitoring wells over there at a gas station when we found it out -- our own monitoring wells -- and DHEC UST within a year had 15 other monitoring wells out there, and they actually have started the cleanup process, and this all happened within a couple of years. Now, with that said, they knew about that site since '92 also. So it bothers me that -- that -- and maybe it's funding. I don't know. I mean, it's always money, but it bothers me that these sites are left lingering, you know. And ten years is a long, long time to track the contaminates.

It seems to me with a couple/three years, you should know the scope of the plume, you would think. And if it's -- if the -- once the plume is there, it's not like -- I mean, if this thing has been contaminated since the '50s, the plume hasn't moved that far. That's the good thing, you know. So I would -- you know, I -- I just -- I -- I just

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Page 104
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          -- it bothers me that it did take so long.
 2
               And then it does bother me that I still think
 3
          to this day that there's different departments that
          do not coordinate with each other within DHEC.
 5
          think you -- all you people are doing a fine job,
 6
          but there's a -- there's something missing, because
          things are being dropped and one department doesn't
 8
          know what the other one's doing. And -- and what
 9
          I'm looking at is use this as an example, use Pole
10
          Branch Road as an example of -- of where things
11
          like this won't happen again.
12
     MS.
         JONES:
                 Thank -- I -- I -- I --
13
     MR.
         SMITH:
                Okay.
14
     MS.
         JONES:
                -- we will. I think we've learned from
15
          this. But I -- I think to follow up with -- you
16
          made a statement about, you know, "He looked
17
          online; he saw a remedy." So basically, that's an
18
          in-place remedy, what we're doing with the
19
          groundwater. We're not pumping out the
20
          groundwater; we want to inject something in place.
21
     MR.
         SMITH:
                 Right.
22
     MS.
         JONES:
                 Am I hearing from what you had looked up
23
          that you would also like to see that in-place
24
          treatment in the soils under the --
25
     MR. SMITH:
                 I don't know.
```

2/5/2008 Page 105 1 MR. JONES: -- building? 2 MR. SMITH: Either -- either, you know --3 MS. JONES: As an option to evaluate. MR. SMITH: As an option to knock the soils out. I just 5 wouldn't leave them. I -- I --6 MS. JONES: Okav. 7 MR. SMITH: I just -- you know, to leave them -- you 8 know, again, 15 years from now, we may be back in 9 this room saying, "Well, God. We should have got 10 it out of there 15 years ago." 11 MS. JONES: Okav. 12 MR. SMITH: You know, that's what I'm concerned about. 13 MS. JONES: And -- and Jean, maybe you can fill me in on 14 -- on the leachability of the soil. I mean, do you 15 want to --16 MS. OLIVA: Well, I -- I'd like to --17 MS. JONES: Thank you. I promise, we won't forget. 18 MS. OLIVA: I'd like to maybe describe the geology a 19 little bit better. The saprolite in the top 20 20 feet or so is very clayey, which makes it very 21 difficult to treat. As it goes down, the clay 22 breaks down; you get into partially weathered 23 bedrock and then to bedrock. So we're going to be 24 treating that more permeable zone beneath the clay.

To try and get anything injected into that clay

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          material beneath those plating baths would be very
 2
          difficult.
     MS. JONES: So while it could work at one site that you
          -- that you found, it may not be very fruitful
 5
          here.
 6
     UNKNOWN MALE:
                     What about actually removing it?
     MS. JONES:
                 That is -- that is one of the options, and
          we've heard your -- your concern about it.
     UNKNOWN MALE: It's just going to keep leaching back
10
          into the -- into the groundwater.
11
     UNKNOWN MALE:
                    Uh-huh.
12
     MS. JONES:
                 Well, --
13
     UNKNOWN MALE: If it rains, it's going to keep on
14
          leaking -- leaching right back in. You've got to
15
          remove it.
16
     MS. JONES: He -- he was making a statement that, you
17
          know, if we remove it, it does not continue to
18
          leach. And -- and my response to that would be
19
          that that's why we want to maintain that cover,
20
          that flooring right there, and then there's no way
21
          it can leach. There's -- there's no way to -- to
22
          push that contamination through. But -- but it was
23
          an option that we evaluated -- to remove it -- and
24
          we've heard your concern to consider that tonight.
25
               Yes, sir.
```

- MR. DICKMAN: Ray Dickman. Chromium and the hexavalent
- chromium, are you considering those the same
- 3 chemicals --
- 4 MS. JONES: We're going --
- MR. DICKMAN: -- as we're talking?
- MS. JONES: Yes. Yes, I am. When I say "chromium," I
- 7 -- I mean -- I'm talking about the total -- the
- hexavalent -- I'm talking about the chromium.
- 9 MR. DICKMAN: Are you going to remove the solids out of
- the plant that was left over.
- MS. JONES: The solids in the plant?
- MR. DICKMAN: The --
- MS. JONES: When -- when EFP was operating?
- MR DICKMAN: Yes.
- MS. JONES: Yes. But they've removed everything from
- inside that building. It's -- it's been cleaned.
- MR. DICKMAN: All right.
- MS. JONES: That has been removed.
- UNKNOWN FEMALE: Says in the report that the soil
- underneath the footprint is outside the industrial,
- but the surrounding soil is without -- is
- contaminated beyond the residential. So the out --
- surrounding soil is also contaminated, not just
- what's under the footprint, correct?
- MS. JONES: Correct. But I think -- correct. But I

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          think it was a little backwards. Outside the
          footprint is contaminated above residential, but
          not industrial, and since this is an industrial
          site -- industrial work -- it would be protective
 5
          for an industrial setting. It would not be
 6
          protective for residential.
 7
     UNKNOWN FEMALE:
                      Right. So the soil is still
 8
          contaminated, regardless of whether it's
 9
          contaminated for industrial or residential.
10
     MS. JONES:
                 Yes.
11
     UNKNOWN FEMALE: It's just a matter of a putting a label
12
          on it. It's still contaminated.
13
     MS. JONES: It is still contaminated, so we would not
14
          want houses built there if those soils are left in
15
          place at that level. We have done the testing on
16
          those soils and they do not leach, so they are
17
          bound up in that soil. They're not going to leach
18
          into the groundwater and cause additional
19
          groundwater problems.
20
     UNKNOWN FEMALE:
                      The surrounding soil does not leach?
21
     MS. JONES:
                 Correct. But it is still contaminated.
22
          you -- you wouldn't want to walk over there and dig
23
          it up and play in it.
24
     UNKNOWN FEMALE: How is it possible that it doesn't
25
          leach?
                  Is it -- I mean, rainwater will wash over
```

Page 109 1 it, and it will -- how is it that -- how -- how 2 I don't understand that. does it not leach? I think Jean would answer that. MS. JONES: MS. OLIVA: When Angie refers to "total chromium," total chromium consists of two different types of 6 chromium: Hexavalent chromium and trivalent chromium. The trivalent chromium does not leach, 8 so when we sampled soils and there were high levels 9 of total chromium, but not of hexavalent chromium, 10 we know that that's the trivalent chromium and that 11 does not leach. 12 MS. JONES: Thank you, Jean. That was -- that was 13 perfect. 14 MS. VINCENT: Any other questions or comments? 15 MS. JONES: There -- there's one more over here. 16 UNKNOWN MALE: You know, I -- I think you've heard from 17 pretty much the majority of the people here on 18 different subjects and -- and I, too, would think 19 that depending on a third party to not disturb that 20 soil or that slab or roll a truck up on it and 21 break it or whatever it is, is not as responsible 22 as removing the soil. So I would say I would be in 23 favor of removing the soil, and I think that -- I 24 think that's the message you're getting.

maybe I'm talking out of turn, but I think that's

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Page 110
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          the message you're getting, and that's what the
          community is saying. We don't want to take the
          risk down the road that something might happen.
          And just like you closing the door and -- and going
          on vacation for four months and coming back and
          finding out your water heater broke, I mean, we
          don't want that to happen. And -- and as -- as
 8
          many different projects I've been involved with as
 9
          a developer, when we came across bad soils, our --
10
          our desire was to get rid of it. And that's what I
11
          think they're saying.
12
         JONES:
                 I -- and I do -- that is what I think I'm
13
          hearing, and if there were other, future uses for
14
          the site that we already knew about -- you know,
15
          we're not saying that somebody else may want to
16
          come in and remove the building or move the soil.
17
          That could always happen in the future if -- if --
18
          somebody chose to do something different with the
19
          property. I mean, these are all speculations, but
20
          I do understand that in all cases, we would love to
21
          just remove the soil, if it's feasible.
22
     MR. KENNEDY:
                   My name is Gary Kennedy. Can we have a
23
          show of hands for who agrees with that gentleman's
24
          comment?
                    Thank you.
25
     MS. JONES:
                 No.
                      Thank you.
```

- MS. VINCENT: Any other questions or comments?
- UNKNOWN FEMALE: Since you have had a big response to
- this meeting, will y'all have another meeting
- before you make your decision on the remediation?
- <sup>5</sup> MS. JONES: If -- if -- if you would like that.
- 6 MR. SMITH: I think that'd be good. And the Timbers
- that -- they didn't get advised. They're in the
- mile ring, and again, that's the other development
- <sup>9</sup> up there. I know Colleen made me aware of it, and
- I got one because I'm a councilman, but --
- MS. JONES: So -- so first of all, what I'm hearing is
- that we did not notify the proper people, correct?
- MR. SMITH: If you do the 1-mile ring. I have -- you
- know, I didn't know where you -- where you --
- MS. JONES: And that 1-mile ring, we just -- we had to
- pick some boundary.
- MR. SMITH: Right.
- MS. JONES: It could've been three-quarters of a mile if
- we chose it, but --
- MR. SMITH: You got a very small portion of the 1-mile
- 21 ring.
- MS. JONES: Okay. So do you feel -- even though the
- contamination is limited to on-site, do you --
- MR. SMITH: I'm not going to make that choice.
- MS. JONES: Okay.

## DHEC Public Meeting, In Re: EFP Products State Superfund Site 2/5/2008

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     MR. SMITH:
                 I'm not DHEC; you are.
 2
     MS. JONES:
                 Okay.
 3
     MR. SMITH:
                 I mean, you know --
     MS. JONES:
                 Well, I'm just saying the concern from the
           subdivisions that -- that we've had here that the
 6
          neighborhoods --
 7
     MR. SMITH:
                 Well, you know, they're going to hear it
 8
           from these people that are here --
     MS. JONES:
                  Okay.
10
     MR. SMITH: -- and neighbors and -- you know, so I would
11
          -- I would put a letter in there and -- and try to,
12
          you know, just explain it as best as possible, put
13
          your number in there. Certainly, they -- they
14
          could call me if they'd like -- whatever. I don't
15
          care.
                 But --
16
     MS. JONES:
                 Okay.
17
     MR. SMITH: -- you know, just as a -- if you're going to
18
          test the wells within the 1-mile -- that's what
19
          we're talking about --
20
     MS. JONES:
                  That -- that -- that's been proposed and
21
          DHEC --
22
     MR. SMITH:
                 Right.
23
     MS. JONES:
                -- will consider that, so --
24
     MR. SMITH: Well, again, it's a cheap piece of mind for
25
          a lot of people out here, so -- you know.
```

Page 113 1 MS. JONES: So the issues that I've heard tonight are: 2 The -- some residential wells to be sampled by 3 someone other than the property owner; the 4 notification of the residents within that 1-mile --5 some were notified, some were not; we need to do a 6 better job notifying the public; the soil removal 7 under the building to be considered as an option 8 versus -- versus the remedy that DHEC selected: leaving it in place. 10 UNKNOWN FEMALE: S-3 instead of S-2. 11 MS. JONES: And any concerns about the groundwater 12 remedy that I might've missed? We're proposing --13 MS. VINCENT: A question -- a question arose about the 14 depth of the wells --15 UNKNOWN FEMALE: -- wells being tested. 16 MS. VINCENT: -- being tested and --17 MS. JONES: The depth of the wells being tested -- well that -- we will take that into consideration too. 19 The -- should DHEC sample the wells? If so, which 20 ones? How far away? How deep? 21 I just want to make sure that I've -- I've 22 grabbed every --23 UNKNOWN FEMALE: In that mile radius. 24 MS. JONES: -- everything. And then also we need to

alert the property owners of their sample data.

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Page 114
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     MR. GANGELHOFF:
                       Paul Gangelhoff, Vander Lakes. I think
 2
          also you need to put some kind of a time line on
 3
          the remedy and not leave it open-ended.
 4
     MS. JONES:
                 Okay. Okay. A couple more questions and
 5
          then -- I appreciate you guys staying here.
                                                         It's
          been about two hours.
 7
     MS. SNIKER:
                  I'm Cheryl Sniker from Campbell's Crossing.
          I just want to add one more thing. I think you
          alluded to it; we didn't quite clarify it. If --
10
          before this plan is implemented, once you've made
11
          your decision, that there's a follow-up meeting.
12
     MS. JONES:
                 And you would like that to be a formal
13
          meeting -- a presentation versus just a letter or
14
          a --
15
     MS. SNIKER: Yes.
16
     MS.
         JONES:
                 Okay. Okay. That's --
17
     MS. SNIKER:
                  Especially since there's some indecision
18
          about what you're going to do in the final version
19
          for the groundwater. That would give us an
20
          opportunity to hear the whole story rather than
21
          just the proposal.
22
     MS. JONES:
                 So you're saying if we decide to go with
23
          Option S-3 versus S-2, come back and tell you that
```

Southern Reporting, Inc.

Not for soil, for groundwater.

24

25

that's --

No.

MS. SNIKER:

Since

Page 115 1 you didn't know about the injectable -- what was 2 going to be used, how it was going to be done --3 that was -- that's going to require some follow-up, 4 and we would like to have the details of that. 5 MS. JONES: Okay. 6 UNKNOWN FEMALE: Disposing of the soil -- you know, 7 we're -- just had a show of hands that everybody is 8 concerned about the total removal of that soil. 9 MS. JONES: There -- there will be pilot testing. 10 I think the first step after that remedial design 11 would be some bench scale to see what -- what 12 injectant works to break down this chromium. 13 they'll be a -- maybe a pilot study on the property 14 to see how -- what our system looks like. 15 once all that settles, then we can come and tell 16 you if it worked or not or if we have to choose 17 something else. 18 MS. SNIKER: Okay. 19 UNKNOWN MALE: I have a question. 20 MS. JONES: Yes, sir. 21 UNKNOWN MALE: Has any other cleanup been done on that 22 site? I know for a fact that that small building 23 adjacent to the big building there was used as a 24 machine shop, and they just took the oil and the 25 chips and everything and dumped it out the back

Page 116 1 door on the ground. And I just was wondering if there was any other cleanup done there --3 peripheral kind of cleanup as opposed to just the chromium. 5 MS. JONES: There have been several soil removals out Just in my reviewing the file I -- I've seen several. They were prior to the company 8 entering into an agreement with DHEC, so there may 9 not have been a lot of DHEC oversight at that time 10 whenever they were removing that -- those soils or 11 But it is documented that removal those piles. 12 occurred, and I think we've confirmed that those 13 samples -- that those locations were clean with our 14 soil samples on the property. But -- but something 15 has occurred out there. 16 MS. VINCENT: Is that all the questions? We're going to 17 -- as we mentioned, the comment period for the 18 proposed plan runs through March 7th. You can 19 e-mail additional questions that you may come up 20 with after you get home, sit down and talk with 21 your -- your spouse, you know. Please feel free to 22 call Angie on any of the technical questions. 23 there's somebody you think needs to get a notice of 24 the -- the next meeting that we are proposing, then 25 please let us know that too. If you will also turn

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 1
           in your survey sheets to Mr. Akhviediana, and --
 2
           we'd appreciate it if you could do that and --
 3
     MS. JONES: Pat, I had two more questions.
           all, the York County Library, is that a convenient
 5
           location for us to house this record?
                                                    Is it fairly
 6
           convenient for everyone?
 7
                And then second of all, the -- the -- I mean
 8
           the notice was also placed in the newspaper.
 9
          believe that was the York newspaper -- or Rock
10
          Hill?
11
     MS. VINCENT: "The Herald."
12
     MS. JONES:
                 "The Herald"?
13
     MS. VINCENT:
                    Rock Hill "Herald."
14
     MS. JONES:
                  Is that the -- the proper paper?
15
     UNKNOWN MALE:
                     Yes.
16
     UNKNOWN MALE:
                     Yeah.
17
     MS. JONES:
                  Okay.
                         Thank you.
18
     MS. VINCENT:
                    Thank you. We're going to close the
19
          meeting.
20
                (Whereupon, at 9:11 p.m., the meeting of the
21
                above-entitled matter was concluded.)
22
                (*This transcript may contain quoted material.
23
                Such material is reproduced as read or quoted
24
               by the speaker.)
25
         (**Certificate accompanies sealed original only.)
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