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REMEDIAL ACTION PLAN - PUBLIC HEARING

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VAN DER HORST SITE

PLANT #1

PROPOSED REMEDIAL ACTION PLAN

PUBLIC HEARING

MARCH 5, 1992

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CUBA, NEW YORK 14727
(716) 968-3077

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A p p e a r a n c e s :

VIVEK NATTANMAI, Project Manager
Albany Department of Hazardous Waste Remediation Section

CHRISTOPHER ALLEN, Section Chief
Albany Department of Hazardous Waste Remediation Section

GREGORY SUTTON, Project Engineer
Buffalo Department of Hazardous Waste Remediation Section

MICHAEL RIVARA, Project Manager
New York State Department of Health, Albany

PATRICIA NELSON, Citizen Participation Specialist
New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation, Buffalo

GLENN WINEGANT, Consultant
ERM Northeast

JEFF WITTLINGER, Consultant
ERM Northeast

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(Proceedings commenced at
approximately 7:10 p.m.)

MS. NELSON: Good evening. I'd like to open our meeting tonight and thank you for coming. My name is Pat Nelson. I'm a citizen participation specialist with DEC's Division of Hazardous Waste Remediation. I work out of the Buffalo office. The purpose of tonight's meeting is to present to you the proposed remedial action plan or PRAP for the Van Der Horst site and also to provide you with a question and answer period. We're going to begin tonight with a brief presentation and then that will outline the process that we've taken to determine the nature and extent of the contamination and to find the proposed remedy that we're going to discuss. We'll also be describing that remedy and how it's going to be protective of human health and the environment. Following the presentation, we'll open it up for a question and answer period.

I'd like you to note that tonight's proceedings are being recorded by a court stenographer that will give us an accurate record of your questions and concerns and make sure they're documented in our proceedings. Therefore it's essentially for us to conduct this meeting in a real orderly

2 fashion, and to do so we've given you a comment question
3 worksheet. We'd like you to use this to jot down your
4 questions and answers and I'd like to go over a couple
5 procedures that are outlined at the top of that. Number one,
6 tonight when you're recognized by Mr. Allen please stand up.
7 Number two, please be sure that you state your name and
8 address. It's important for us to get this in the record.
9 And each time you are recognized, if you ask one question,
10 then sit down and stand up again, please give your name again
11 so that we can get that in the record. Number three, we'd
12 ask that you speak slowly and clearly so that everyone here
13 as well as the transcriber can hear your comments. Number
14 four, we'd ask that you try to keep your comments brief just
15 so we make sure that we give everyone a chance to speak
16 tonight, and if you do have several questions, perhaps you
17 could ask one or two, then take a seat and let someone else
18 speak and then be recognized again. Number five, whether or
19 not you choose to speak tonight and if you do have questions,
20 I would like you to jot them down on that piece of paper and
21 turn them into me at the end of the evening. Please be sure
22 that you do put your name, address, and your telephone number
23 on so that if you have an issue that we can talk to you
24 about, we can get back in touch with you to clarify those
25 points. I'd also like to make sure you sign in on the

2 sign-in list before you leave so I can keep our mailing list
3 updated. And the last one, we will try to answer as many of
4 your questions tonight as possible. If there are questions
5 we can't answer tonight because we don't have the data or
6 document here, we will be responding to all the questions
7 asked tonight in a document called the Responsiveness Summary
8 which will report all the questions and all the answers we
9 give, and then that will be placed in the document repository
10 which is at the Olean Public Library here in town.

11 Before we begin, I'd like to introduce our staff first.
12 We have Vivek Nattanmai who is the project manager for the
13 Division of Hazardous Waste Remediation, Christopher Allen
14 from Albany Division of Hazardous Waste Remediation, Gregory
15 Sutton who is the project manager out of our Buffalo office,
16 Michael Rivara who is the New York State Department of Health
17 manager for this site, and we also have with us Glenn
18 Winegant and Jeff Wittlinger, our consultants from ERM
19 Northeast. Now I'd like to turn it over to Vivek Nattanmai.

20 MR. NATTANMAI: Good evening. My name is Vivek
21 Nattanmai from the Division of Hazardous Waste Remediation.
22 I'm working on this project from the Albany office, and with
23 me on board on this project are Greg Sutton from Region 9
24 Buffalo Office and Mike Rivara from the Health Department
25 Albany Office. The Remedial Investigation/Feasibility Waste

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Study was conducted by NYSDEC out of the Buffalo office and of the supervision and instruction from the state. Let me begin with the location of the site. The site is located in North Olean on Penn Avenue off of North Fourth Street. There are two surface water bodies located adjacent to the site. One is the Olean Creek which is to the east of the site and Allegany River which is 1.5 miles south of the site, and to the north, south, and east of the site is a residential area and to the south and southwest of the site is an industrial area. The plant number one was a chrome plating facility started in the early 1940's. There were several reported disposal practices while the plant was in operation. One of the major disposals occurred in the year 1965 when one employee emptied a large tank containing chrome plating waste water into the sanitary sewer connection. An overflow occurred to the storm sewer because the waste flow was too high in the sanitary sewer. As a result, the waste water reaching the Olean Creek by way of the storm sewer killed at least 10,000 fish. After this incident, the County Health Department directed the plant to install a chrome unit to treat their waste water before discharge and this unit was installed in the year 1968. In the year 1967 the County Health Department made a press release cautioning the public in the North Olean area against the use of groundwater from

2 private wells for human consumption. The Van Der Horst
3 Corporation ceased its operations in July 1987, and before
4 that in 1984 New York State DEC conducted a Phase I Study in
5 the North Olean area and that study confirmed the chrome
6 contamination in the groundwater, but the source of the
7 contamination was unknown at that time. In the year 1989 DEC
8 started a full scale Remedial Investigation/Feasibility
9 Study. The remedial investigation was conducted in three
10 phases: Phase I of the investigation involved taking soil
11 samples, surface soil samples and subsurface soil samples,
12 groundwater samples, creek sediment samples, creek surface
13 soil samples, and also during the Phase I investigation took
14 soil samples from each of the backyards of the residents
15 immediately adjacent to the site. We chose one location on
16 each of the backyards and we took two samples at each
17 location: one from 0 to 3 inches and the next sample was
18 taken 3 to 6 inches. The Phase II investigation involved
19 expanding the Phase I investigation by taking most samples
20 based on the results of the Phase I investigation to
21 determine the extent of the contamination in soil and
22 sediment and also in the groundwater. And in Phase II
23 investigation we took sediment sewer samples--sewer sediment
24 samples also. In Phase III--well, most of the Phase III was
25 focused on investigating inside the plant building. We took

2 wipe samples, dust samples, and we installed monitoring wells
3 and installed monitoring wells also inside the building
4 before we started the investigation. We found out that a
5 number of hazardous chemicals were improperly stored inside
6 the building. Because of the residents located so close to
7 the site, in case of an accident or fire, it will cause a
8 major threat to the public and there was no security for the
9 site also, so we cautioned EPA to take immediate action for
10 removing all the chemicals from inside the building and EPA
11 improvised their crew in the middle of 1989 and removed all
12 the chemicals and disposed of them off-site.

13 Investigation conducted at the site found contamination.
14 Well, the locations of the soil samples, surface, subsurface,
15 and the groundwater locations are there in the handout I gave
16 to you, and let me show you the locations where we took
17 samples from the Olean Creek. This is where the site is
18 located and this is where the sanitary sewer comes and this
19 outfall in the Olean Creek is here and we took surface water
20 samples and sediment samples also from the creek. This is
21 where we took sanitary sewer samples. This is where we took
22 samples from the manholes here and here and up to here and
23 here also and we found very high contamination in this
24 manhole dimensioned here.

25 In overall, the investigation conducted found

2 contamination in soil sediment and sewer sediments and
3 groundwater. The major contaminants were chromium, arsenic,
4 and lead in the soil and sediment and chromium, lead, and
5 tetrachloroethylene in groundwater. The investigation also
6 identified four historical source areas. These are the
7 source areas that are believed to be contributing
8 contamination to the groundwater. Area B and C might have
9 resulted from past disposal practices and Area A is believed
10 to be from leaking chromic acid tanks which are located
11 approximately 20 feet below grade and Area D where we
12 uncovered six plating vaults which were used in the early
13 stages of this plant operation and three of the water samples
14 taken from these vaults showed very high contamination of
15 chromium.

16 Based on the results of this investigation, the risk
17 assessment was done to identify the various risks posed by
18 contaminants of the site to the public health and water.

19 The conclusion of the risk assessment was under current
20 conditions for noncarcinogenic effects there are no adverse
21 effects and for carcinogenic effects there are chromium and
22 arsenic in the soil that are posing a problem. And for
23 future conditions, chromium and lead in groundwater for
24 noncarcinogenic effects and for carcinogenic effects
25 chromium, arsenic, and soil in groundwater used for drinking

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water. Based on the risk assessment, no adverse effects to sensitive resources are expected to occur as a result. Site contaminants, however, several of the contaminants found in sediment samples are above standard and may be impacting accurate life in the creek. Based on this risk assessment and based on our investigation, we try to determine the cleanup levels for various contaminants and media at the site so that we can, when you want to remediate a site, we know how far we have to clean it up in soil and groundwater and sediment.

For groundwater, the cleanup goal is to achieve the groundwater standard which is 50 parts per billion for chromium. For surface and subsurface soil, the cleanup level determined was 50 parts per million of chromium. For creek sediments, the cleanup level determined was 26 parts per million of chromium which was as per DEC's sediment criteria.

After setting up the goals for the remediation of the site, a feasibility study was conducted. The goals for the remediation for this site are to remediate the groundwater to acceptable levels, to remediate the contaminated soil to limit the leaching of the contaminants to groundwater, to remediate the sewer sediments and creek sediments to limit the impact of the contaminants to downtake the creek life, to remediate the building structures for demolition, and

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excavating the contaminated soil beneath the building.

The feasibility study identified several remedial technologies that are applicable to the site. After screening these technologies based on their implemental geographic effect study, several remediations are grouped together for the site. They are Number (1) is no action/limited action. The second alternative is to cap the site by consolidating all the contaminants, soil sediment removal and sewer sediment removal, storm sewer cleaning, and long term groundwater monitoring. The third alternative is to excavate the soil/sediment and offsite disposal, demolition of the building, storm sewer cleaning, groundwater extraction, pretreatment and discharge to POTW and long-term monitoring. The fourth alternative is to excavate soil/sediment and on-site solidification, demolition of the building, storm sewer cleaning, groundwater extraction, pretreatment and discharge to POTW and long term monitoring. The fifth alternative is excavation, on-site solidification of less contaminated soil and offsite disposal of highly contaminated soil/sediments, demolition of building, storm sewer cleaning, groundwater extraction, pretreatment and discharge to POTW and long term monitoring. The sixth is excavation, offsite disposal of highly contaminated soil/sediment and on-site capping of less contaminated soil,

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building demolition, storm sewer cleaning, groundwater extraction, pretreatment and discharge to POTW and long term monitoring. The seventh is excavation and encapsulation of soil/sediment, building demolition, storm sewer cleaning, groundwater extraction, pretreatment discharge to POTW and long term monitoring.

Based on these seven alternatives evaluated against eight important criteria which are applicable: Compliance with SCG's and regulations for reduction of toxicity, mobility, and volume of contaminants, short-term effectiveness, long-term effectiveness, and permanence. Implementability, cost, community acceptance, and overall protection of human health and environment. Based on evaluation of alternative four which is excavation of soil/sediment, storm sewer cleaning, groundwater extraction, and long-term groundwater monitoring was selected as the preferred alternative.

Let me put together the different parts in this particular alternative. Basically the limited alternative can be broadly to widely soil removal from the site and groundwater remediation. Let me present the various tasks that are being asked to perform to remove the soils from the site and Mr. Chris Allen will give the details of the groundwater remediation and overall cost of the remedy. So

2 to remove the soils from the site, this is what we're going
3 to do: plant building decontamination and we're going to
4 remove the asbestos from the building that has to be removed
5 and disposed offsite, and we are going to demolish the
6 building in order to excavate the contaminated soil beneath
7 the building and the demolition of the building debris will
8 be offsite disposed, and Olean Creek sediment will be dredged
9 and brought off the site and the storm sewers will be cleaned
10 and all the sediments will be brought off the site and
11 surface and subsurface contaminated soil will be excavated
12 and all the soil sediment from the storm sewers and sediment
13 from the Olean Creek will be stabilized on-site and the site
14 will be restored after that and we want to have a long-term
15 groundwater monitoring after that.

16 The following figure will show you the scope of our
17 cleanup on surface soil based on the 50 parts per million.
18 This is the plant building and this is the area of the site,
19 fenced area of the site, and this dotted line shows the
20 cleanup level for surface level or surface soil cleanup area.
21 For subsurface soil cleanup based on the concentration
22 detected at each location we're going to excavate at
23 different depths. For example, this one we're going to
24 excavate up to 20 feet and this area we're going to excavate
25 up to 12 feet and some of the area we're going to excavate up

2 to 4 feet. It's all based on consumption of the soil
3 contamination we conducted due to the investigation. And
4 finally this is the Olean Creek sediment dredging area that
5 will be done during the cleanup. Here's the outfall that
6 comes separate from the plant and this is the area we're
7 going to cover up during cleanup of the creek sediment. Now
8 Mr. Chris Allen will talk about the groundwater remediation.

9 MR. ALLEN: Thanks, Vivek. Again my name is Chris
10 Allen. I'm a section chief of the Division of Hazardous
11 Waste Remediation. As Vivek mentioned, this plant had
12 various size tanks and vats of chromic plating solutions and
13 some of these extended down 22 feet into the ground. EPA has
14 since cleaned all that material out of those plants. It's
15 readily apparent that these vats were not very--didn't have
16 very good integrity. They leaked. When we bored inside the
17 plant and took water samples inside the plant near where the
18 vats were, we found extremely high groundwater contamination
19 for chromium as well as very high soil contamination, so as a
20 result we have to take the plant down in order to remediate
21 that soil underneath the plant. The goal of any remedial
22 action, and Vivek alluded to this, is to try to meet certain
23 standards. In this instance with groundwater, our goal would
24 be to restore this groundwater aquifer back to what we would
25 consider groundwater standards which is 50 parts per billion

2 of chromium. We currently have chromium levels as high as
3 85,000 parts per million. We need to get to 50 parts per
4 billion in the groundwater, so we have very high
5 concentration of chromium in the groundwater at the plant
6 site. The plume has been detected. We've had chromium
7 contamination downgrading which is predominantly in a
8 southwest direction detected approximately 850 feet away from
9 the plant. We don't have wells that have detected the extent
10 of the plume, but we know it has reached roughly 800 feet
11 away from the boundary of the plant based on the information
12 letter that a consultant was able to determine during the
13 investigation and with a computer groundwater model. They
14 also performed a pump test at the site. They pumped the
15 aquifer and tried to stress the aquifer to determine how it
16 would react to pumping. One thing you've got to keep in mind
17 is this is a very productive aquifer. Felmont Oil was here
18 for years and I think pumped up to 6 million gallons a day
19 adjacent to this plant up to I believe 1986, so it's very
20 productive. If you want to draw an analogy, it would be like
21 drawing an underground lake. There's lots of water there.
22 We would have to pump a significant quantity of water in
23 order to restore this aquifer back to groundwater standard
24 where it can be used for potable water.

25 Based on the groundwater--this overhead is a little

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difficult to see. I tried to draw in this orange area is the plant site, the plant building, and this is Spruce Street and Penn Avenue comes in about here. Based on the computer groundwater model, our consultants predicted, and I want to preface this by saying it's a prediction--it's based on a lot of assumptions, it's based on data that in many manners you may say it's not complete, it's based on the data that would be determined during the investigation they predicted that if we installed five groundwater recovery wells in these locations, we would be able to remediate this aquifer--excuse me, and pump 250 gallons a minute from each groundwater recovery well, we would be able to capture an area inside this bold black line and that would essentially restore this aquifer over some period of time down to 50 parts per billion. Now this alternative means we would be pumping approximately 1,400 gallons a minute of groundwater which is over 2 million gallons a day of probably relatively if you want to call it clean water. Really chromium is the biggest contaminant in this. It's a large financial commitment on the part of the State as well as a demand power resource commitment in order to implement this remedial action based on a groundwater model. What I'm getting at, it's a sign with some art to it. It would be a very large commitment having a questionable outcome in this instance, so we went

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back and looked at this. Given that the goal of remedial action is to try to get back to a standard at a minimum, we have to be protective of the health of the environment. Based on our current knowledge, there's no private water well users that are using this water for human consumption that are in this that affects the area or they shouldn't be, let's put it that way, so we assume that this area is not being used for human consumption. Theoretically if we left it there, we could say it was being protective. However, we still have a resource that's being affected by contamination. We'd like to at least attempt to restore it, so what we decided to do in our proposal is to install one well probably in the area of the highest contamination right near the plant and pump approximately 250 to 300 gallons a day for a minimum period of five years, and this is based on our calculations. Again these calculations are as tenuous or as much an estimate as the calculations to predict this. Based on that, we feel we can get a significant quantity of the highly contaminated groundwater underneath this plant. During that process, we required, since it's the higher contaminated water, the treatment works who would be required to treat it to some extent to remove the higher concentrations of chromium before it was discharged. The advantages of this? There are several advantages. One is it's a smaller quantity

2 of water that we know or we're more confident we can
3 discharge to the treatment plant without having any adverse
4 effect to the treatment or any adverse effect on the sewers
5 and it's something we think the treatment plant can handle.
6 It gives us an opportunity over a period of time to monitor
7 the effect of this pumping and to better quantify and predict
8 what's occurring in this aquifer. By pumping over a long
9 term, we can start to get different influences and have
10 better information to predict what would it take to bring
11 this aquifer back to restore it completely and bring it back
12 to its best useage which would be potable drinking water. It
13 would also require us to install some additional monitoring
14 wells so we can get more information as to what's occurring
15 in the aquifer. It is also going to remove a significant
16 amount of this contamination. We've again done rough
17 estimates of anywhere from 10 to 30, 50 percent possibly, of
18 total chromium in the aquifer. It does not, however, this
19 will not and we know for sure this will not restore the
20 aquifer back to 50 parts per million. If we do that, it will
21 take remedial action. It's difficult to predict at this
22 point in time.

23 So that's the proposal for the groundwater pumping. I
24 just wanted to spend a little time on it so you had a little
25 understanding of the whole process we went through to try to

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2 decide how best to address the groundwater because we do have
3 a significant contamination problem. The other thing is to
4 implement a program that had five groundwater recovery wells,
5 and at a minimum upgrading the public treatment works to
6 accept this waste, it would cost approximately \$13 million
7 over a period of years to do that. Again, it's a very large
8 financial commitment at a time when we don't have a lot of
9 confidence it will meet what we want it to do. That's if we
10 can discharge to the treatment plant. If we couldn't for
11 some reason, and that's questionable also, it requires us to
12 treat the water and that would be significantly more
13 expensive.

14 So to recap what we're proposing at the site, and Vivek
15 went through what we're calling the source removal,
16 essentially you consider this whole remediation a source
17 removal because we are trying to remove the highly
18 contaminated ground source. Also the plant building
19 decontamination before demolition which would include
20 asbestos removal from the plant. The sediment removal, the
21 storm sewer cleaning, surface and subsurface soil removal,
22 stabilization of all those solids of sediments and soils and
23 disposed of on-site, then restoring the site, and then we
24 would be what we're calling a pilot program which is this 250
25 gallon or 300 gallon extraction and discharge to the POTW to

2 the groundwater. The total cost of this alternative is the
3 capital cost which is primarily construction associated with
4 this part of the remediation is approximately \$8.5 million
5 and the estimate for O & M which is primarily operation of
6 the wells and the treatment absorption, carbon absorption
7 treatment plant, is approximately \$3 million for a total cost
8 of \$11.5 million.

9 One other thing I'd like to discuss, I think most of you
10 are aware I hope, we're also involved in the same process at
11 the Van Der Horst Plant 2 site which is approximately a half
12 mile away as the crow flies from this plant. We're
13 predicting we will be in a position to recommend a remedy on
14 that site sometime in June or July of this year. We have a
15 chosen remedy, we've had discussions about what the remedy
16 while be, and we will be looking at the possibility of
17 consolidating the Plant 1 waste of the solidified soils at
18 the Plant 2 site. There's more room there. There is a
19 landfill at the Plant 2 site which will probably require some
20 type of, if I had to guess without predicting what the remedy
21 would be, probably require some type of containment. It will
22 probably require some time of regrading. We'll have material
23 we can solidify and take over there to close that landfill,
24 so we will be looking at that. The one change you may see
25 here in the proposal is that we don't dispose of the material

2 that is solidified and stabilized back in the same location.

3 Let's talk a little bit about schedule here. We
4 predicted the Record of Decision or the ROD which will be the
5 outcome of this whole process will be signed hopefully by the
6 end of this month or early April at the latest and we are
7 obligated under state law to give the responsible party which
8 in this case is the Van Der Horst Corporation the opportunity
9 to do the work and they apparently do have an office. They
10 still exist as an entity. So by law we have to go back to
11 them before we spend any money to implement the remediation
12 and offer them the opportunity to do the work. We usually as
13 a rule of thumb put six months on that process. I'm hopeful
14 in this instance because I'm not sure Van Der Horst is viable
15 at all that we can do this in a much quicker time, but
16 allowing a year for design, this will bring us up to October
17 '93 and for construction to begin sometime in 1994. Spring
18 1994 will be the time frame we're looking at in this
19 instance. With that, I think we can open up for questions
20 and raise your hands.

21 BONNIE VENO: My name is Bonnie Veno and I live right in
22 front of the site. One of the things I wanted to know is
23 that you mentioned demolition of the building. That has been
24 decided for sure?

25 MR. ALLEN: Yes.

2 BONNIE VENO: The Van Der Horst itself, I don't know if
3 you're aware of this or not, has filed for bankruptcy.

4 MR. ALLEN: Oh, yes, we're aware of that.

5 BONNIE VENO: So I'm sure they're not going to be in a
6 position--

7 MR. ALLEN: I'm relatively sure of that also.

8 BONNIE VENO: Another question I wanted to know about is
9 the soil removal. Because we live so closely, I wonder what
10 kind of construction or what kind of--I should say how close
11 it's going to be in our backyards.

12 MR. ALLEN: I assume--could you tell by our map are you
13 one of the houses?

14 BONNIE VENO: I live on North Fourth Street. You've got
15 a well right in our front yard.

16 MR. ALLEN: Just as a general statement, we will--we've
17 done this in other instances--be excavating soil around
18 houses right up to the basement. We've done it in several
19 instances on other sites. We take a lot of precautions.
20 Just to give you an example of something, first of all, there
21 will also be constant air monitoring. The biggest problem
22 with chromium as it's a metal, that attaches to the soil
23 particle the way it's physically tested by water running off
24 the site and by wind and dust, so one of the things we'll be
25 monitoring closely is dust generation and take appropriate

2 action by using water sprays to keep the dust down. If
3 necessary, we have in some instances put plastic up on the
4 backs of houses. It's something to get in and out of the
5 backyards quickly, you know, in one day or so to excavate the
6 material. To not try to inconvenience the person more than
7 necessary, we may put plastic on the house to make sure it
8 doesn't settle on the siding, but again we monitor. With
9 dust the best monitoring is your eye. If you see it, you
10 know you're creating a problem. You stop work and take
11 action. It would be the same situation to take the plant
12 down. Any demolition is dust is being generated, but there
13 are a lot of precautions being taken, and before any of this
14 is implemented, we will be sitting down individually with
15 every person involved talking over their concerns trying to
16 accommodate you in any way we can. It's going to be an
17 inconvenience for people there. It's not a risk in
18 particular. The biggest risk really is from a situation
19 which is a physical risk from having construction going on
20 around your house.

21 RONNIE VENO: Right. Now will this be done--you're
22 saying it's going to be signed in April, at the end of April
23 you're hoping?

24 MR. ALLEN: Hopefully at the beginning.

25 BONNIE VENO: Okay, then you will not start anything

2 until October?

3 MR. ALLEN: See, we can't ask our consultants to go on
4 to do the design documents until our lawyers tell us that
5 Van Der Horst isn't going to do it. It's a legal issue.

6 BONNIE VENO: So if Van Der Horst writes you back in May
7 and says we're not going to do it, it could start as soon as
8 this summer?

9 MR. ALLEN: It certainly could, if it is determined they
10 don't exist or are saying they aren't going to do it.

11 BONNIE VENO: What you're saying right now, I guess what
12 our question is who really owns it? The state--now the state
13 is going to clean it up. I guess who actually owns this?
14 When you get finished with this construction, who's going to
15 own this piece of property? I guess that's my question.

16 MR. ALLEN: The first answer is Van Der Horst
17 Corporation owns the site. Bankrupt or not, they own the
18 site. I think--I'm sure they still hold title to it. In
19 most cases, and even if they're not paying taxes, some people
20 file for bankruptcy for hazardous wastes sites for obvious
21 reasons so we will not acquire the site. We can't--there's
22 nothing in the law that says we have to. What we will do if
23 necessary, for instance, let's say we do pump some type of
24 pumping operation there. We will take a permanent easement
25 on that property and that easement will have certain

2 conditions restricting the useage of that property, but the
3 state won't acquire the property. We may stay indefinitely.
4 I don't know where properties go, but we will not acquire it
5 and eventually it will just remain in its current position.
6 There will be appropriate measures taken. If it needs to be
7 fenced, we'll fence it. If it needs to be--the best thing
8 that could happen is we can do all this stuff early and take
9 it over to the Plant 2 site. We know we're going to have to
10 leave some material there.

11 BONNIE VENO: Now how will this affect people in that
12 area? I know it's a large area and I know it's not
13 heavily--it doesn't have a lot of houses, but I mean how can
14 you take this material and dump it someplace else?

15 MR. ALLEN: I'm glad you mentioned that. It's one of
16 the things we are considering that you have to be aware of.
17 I think it's a very real possibility that we would propose
18 that, but again I think we'll be in a situation in Plant 2
19 where we'll have material there that will have to remain in
20 place anyways. One of the problems in the solidifying and
21 stabilizing soil, it increases in volume. It could increase
22 anywhere from 30 to 50 percent, so depending on how much of a
23 hole we have left there when we're done with the demolition,
24 it comes back to we can't sift this stabilized material down
25 into the groundwater. We may have a problem with elevation

2 and other things. Essentially what you get when you
3 stabilize the soil is a fly ash compound. It's usually a
4 block. Ultimately what it does is it binds up even in this
5 instance so they won't leach out into the ground. That's
6 what it is. It just will no longer pose a risk and it will
7 be buried so people can't come in contact with it, but
8 there's engineering problems with it. The fact that it will
9 increase in volume and we don't know if it will fit in
10 between the property and there's a problem with that.

11 BONNIE VENO: My real question is it just doesn't seem
12 right that you would take this hazardous stuff and then just
13 dump it somewhere else.

14 MR. ALLEN: First of all, it will no longer be
15 hazardous. By law we have to dry this to a point where it's
16 no longer hazardous, so in essence it will have contained
17 lead, or chromium doesn't disappear, to contain that. It
18 will no longer be in a physical state where it will cause a
19 problem or leach into groundwater or be airborne, so
20 essentially it will be, if you will, soil with chromium in
21 it. And when you have a close landfill which we have
22 landfills about an eighth in size, you usually have to mound
23 it and re-shape it. We may need fill over there so there
24 could be a--

25 BONNIE VENO: There is no possibility then that the

2 chrome that's left in this could seep into any--

3 MR. ALLEN: I never guarantee anything.

4 BONNIE VENO: What I'm saying now, this is a real--

5 MR. ALLEN: We run tests on the material. You actually
6 mix it with these various compounds to hold it and you grind
7 it up and run a test called the leachability test to see
8 about these chemicals, and that's the biggest concern. It's
9 a technology that's being used now. It's a technology that's
10 not a very exotic technology. It's washing it out. It's a
11 very basic technology. We have a lot of confidence in it
12 that it will work. It's like anything else.

13 BONNIE VENO: I'm just saying that because of the
14 landfills other places where they do have a tendency in
15 years, I'm not saying right away, but down the road a piece,
16 that was one of my concerns.

17 MR. ALLEN: One of the things we're doing, this is kind
18 of getting off the subject, in order to bury most waste now
19 even in landfills, you have to solidify it first or have to
20 stabilize it. One of the things they typically do is
21 solidify or stabilize to prevent problems like that, so it
22 could be consistent with that.

23 BONNIE VENO: But you can't guarantee.

24 MR. ALLEN: No guarantees. I can't guarantee.

25 BONNIE VENO: Thanks.

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MR. ALLEN: Yes, sir.

HUGO YAHN: I'm Hugo Yahn. I live on 41 Willard Street and I read the front page of the Olean Times Herald which stated that cleanup costs would be \$12 million and I was wondering about an apportionment of these costs.

MR. ALLEN: Apportionment to who? What they're attributed to?

HUGO YAHN: A breakdown as to how much for such and such a part of the cleanup operation.

MR. ALLEN: I can certainly give it to you. We have that information available. I gave you a rough breakdown which is the 8.5 million.

MR. NATTANMAI: I can show you that thing which breaks down the cost. This is what it's going to cost.

MR. ALLEN: Keep in mind now this reflects the costs, the estimates of costs. We're doing the groundwater remediation with the five extraction wells. These costs are still all accurate. Okay?

HUGO YAHN: I see, and I was wondering, you need a landfill in order to deposit the hazardous waste. I was wondering where this landfill was going to be.

MR. ALLEN: Well, in this instance the proposal is to keep soil on-site after they're stabilized. If you're talking about the soils and sediments to stay on-site, if

2 you're talking about the building itself, we hope that
3 decontamination will be disposed of in the CED landfill. I
4 don't know where that's going to be.

5 HUGO YAHN: Have you taken--when will you take bids?

6 MR. ALLEN: Well, based on the estimates I gave,
7 probably sometime in the spring in 1994.

8 HUGO YAHN: I see.

9 MR. ALLEN: Thank you. Yes, ma'am?

10 DOROTHY MIKOLAJCYK: My name is Dorothy Mikolajcyk and I
11 live at Site 2.

12 MR. ALLEN: Site 2?

13 DOROTHY MIKOLAJCYK: Right, and it concerns me that
14 you're going to put this soil there. Has that ground been
15 tested? I mean has all the--

16 MR. ALLEN: Again, and I said I was concerned about
17 making that statement tonight because we haven't chosen a
18 remedy, I'm speculating to some extent, but that's a proposal
19 being looking at. There's no question about it. We've gone
20 through the same process and in some instances more detail at
21 Plant 2 than Plant 1 and we'll be going through the public
22 hearing process on that probably in two months or so.

23 DOROTHY MIKOLAJCYK: That ground has to be, you know, as
24 contaminated because of Felmont and Dresser and industries
25 that was there years ago.

2 MR. ALLEN: The documents are in the depository if you
3 want to take a look at them. If you have any questions, give
4 us a call and we'll give you some more information on that,
5 but as far as--

6 DOROTHY MIKOLAJCYK: You mean Plant 2?

7 MR. ALLEN: Yeah, but as far as contaminated, there are
8 different contaminants over there. As far as a landfill, we
9 don't have a landfill at Plant 1. It doesn't have as high a
10 groundwater contamination as Plant 1; it doesn't have as bad
11 a surface soil contamination.

12 MR. NATTANMAI: We do have some, but not as bad as
13 Plant 1.

14 MR. ALLEN: The biggest concerns at Plant 2 are some
15 groundwater problems around the landfill. This plant was
16 primarily a chrome plating plant, Plant 1. Plant 2 was an
17 iron plating operation. It does have some chronic acid
18 problems. I guess they used caustic to strip the pieces
19 before replating with iron, so there was chrome problems over
20 there but not as extensive as Plant 1.

21 DOROTHY MIKOLAJCYK: What I'm saying is a culmination of
22 Bush Industries, that was there years ago before
23 Van Der Horst, and I'm sure Felmont.

24 MR. ALLEN: We found petroleum products in the ground
25 water up there, I don't know if it's from Felmont.

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DOROTHY MIKOLAJCYK: It would be real hard to convince me that there isn't contaminants.

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MR. ALLEN: Well, they're different. It's not to say one's worse than the other. I would say just because of the proximity of Plant 1 to the residences is probably more concern to us, but--

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DOROTHY MIKOLAJCYK: But there are no real health hazards for Plant 1 or Plant 2?

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MR. ALLEN: Not immediate health hazard. The biggest risk at Plants 1 and 2 is they were both full of chemicals and were both cleaned out by EPA who spent more than \$2 million and they fenced the landfill.

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RONALD VENO: I'm Ronald Veno. You were saying they have wells 3 feet down which are chromium acid laced. Do you have any estimates of how much chromium was down there?

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MR. ALLEN: Do you remember what the number was? Again this is something we try to quantify. This isn't--it's very difficult to do when you look at the concentrations in the groundwater, what we call the floor spaces in the aquifer, and try to confine the water in there and get a concentration.

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MR. NATANMAI: Somewhere around 4,000 or 5,000.

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MR. ALLEN: Which is about 10,000 pounds of chromium. That's not chromic acid.

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RONALD VENNO: When you're pumping, doesn't that chromium move?

MR. ALLEN: Hopefully it will move towards the well.

RONALD VENNO: But are you going to allow it to move toward our water shed which our water shed floor's west towards the Allegany, are you going to have it pumped toward that area to pick up the chromium which may flow that way?

MR. ALLEN: Olean water supply is east of the plant. The Olean water supply is drawn east of the plant site. There is no connection between those two aquifers.

RONALD VENNO: What I'm saying is down those wells like you said there's cracks below the surface which I'm saying are you going to have it pumped offsite too?

MR. ALLEN: Not in this initial stage. As I tried to explain, what we are looking at now is to try to get a better idea of how the substance is moving, what speed it's moving, and our long-term goal is to protect downgradizers, and to protect that, we don't want that stuff to end up in the people's water wells.

RONALD VENNO: That's what I'm saying. Does it flow that ways towards Allegany and so on?

MR. ALLEN: It actually is the regional flow.

RONALD VENNO: So right now your first stage is just to have the pump on-site?

2 MR. ALLEN: To pump the highly contaminated area and
3 monitor it to see how effective that is. When you do this
4 stuff, the best test is to actually pump the aquifer and
5 monitor it to see what happened. The conditions are at least
6 a minimum containment keeping at one spot, maybe not
7 traveling at all, but keeping it or migrating it and then we
8 can look at whatever action is necessary to maybe go out and
9 if we think we can recover an area, to go out. There's going
10 to be some changes or modifications in the whole system as we
11 look at it. The problem is, and I'm an engineer, I'm not a
12 geologist, is to try to put these things in simplified terms.
13 I look at this and I've said it's a big underground lake. It
14 would be like taking a well and sticking it in Lake Erie.
15 Seriously, you've got a large body of water and if you pump
16 it and you have minimal effect. Felmont Oil based on a UCGS
17 Study when they were pumping for that contacted pluming water
18 and they largely controlled that chromium. I mean it stayed
19 there and it stayed and it was pumped into their system.

20 RONALD VENO: How they found out is they were pumping it
21 up through the machinery, that's how they found out. It
22 keeps on moving.

23 MR. ALLEN: Once they stop pumping and that depression
24 in the groundwater table comes back up to static level, that
25 stuff started moving. That's what's occurring now. It

2 largely occurred by Felmont while they were pumping.

3 MR. NATTANMAI: As of now if you take a look at the
4 figure which I gave you, groundwater was raised up to Well
5 Number 19-D which is approximately I think 800 feet from the
6 fence line of the property site, so we have traced that. We
7 know that up to that level we have chromium damage from
8 Van Der Horst.

9 RONALD VENO: Just another question from this. The
10 Environmental Conservation, they said it's above levels which
11 everybody knows and it does not pose a serious risk to public
12 health. Okay, we're talking cancer, am I right?

13 MR. ALLEN: That's one of the carcinogens.

14 RONALD VENO: When you're saying it doesn't pose a
15 serious health risk, cancer is a long-term illness.

16 MR. ALLEN: Provided nobody drinks the groundwater.

17 RONALD VENO: Right, nobody drinks the groundwater. I
18 don't know how long I used to drink out of the pump, I don't
19 know if I got cancer or not, but I'm just saying that I think
20 if you want to eat a lot of dirt, you'll die from that too,
21 from the chromium that's in the soil. That's what I'm
22 saying. It's a long-term illness, so nobody can estimate who
23 has it and who hasn't got it from what I understand.

24 MR. RIVARA: Well, it's difficult to--you're right, I
25 mean it's difficult to diagnose that or predict that, but we

2 did a cancer study back in '89 which we had said at the last
3 meeting we were at, and they did all of Olean because of the
4 well fields and Van Der Horst there, and again it was done
5 over a ten-year period from '76 to '86 because that was the
6 most current cancer data that was on registry, and actually
7 there was no increased cancer risk in males, and females in
8 actuality one of the things found was there was actually less
9 than anticipated cancer cases in females.

10 RONALD VENO: Less did you say?

11 MR. RIVARA: Less than expected, yes, for areas similar
12 to the City of Olean area, so at this point I mean again it's
13 based on data that was present at the time. We haven't found
14 any increased cancer cases. Now you're right about, you
15 know, drinking the water and you saw again that cancer risk
16 was based on the fact that no one would be drinking the
17 groundwater and again it's future and current. You know,
18 that includes drawing the future and current conditions and
19 that's why we want removal of the soil and cleaning up the
20 groundwater. We hope obviously there won't be any future
21 exposure to contaminants associated with the site, so again
22 we've done the study, again it's limited in the sense that it
23 was for '76 to '86 because that's the current data that's
24 available in the cancer registry, but those are the
25 conclusions that were drawn. I think we sent out copies of

2 our study to everyone who was on the mailing list that
3 participated. If someone would like to get a copy of it, I
4 don't have them with me, but I'll take your name and address
5 afterwards and we'll send you copies of the reports.

6 MR. ALLEN: One of the things, 50 parts per billion is
7 really largely in conjunction with the health department.
8 That level, correct me if I'm wrong, is typically based on a
9 cancer risk of one incidence of cancer in a million people,
10 so when we say it's 50 parts per billion, that means that if
11 a person--and I think we use very conservative exposure--a
12 person living in a location for seven years using this water
13 for personal consumption for a period of time at that level.

14 MR. RIVARA: It's again for every day of the year for X
15 amount of years.

16 RONALD VENO: Those standards are by state or federal?

17 MR. ALLEN: Those are state standards.

18 RONALD VENO: Are they more stringent than federal?

19 MR. RIVARA: The state is more stringent than federal.
20 There's even a safety factor built into that if it's a number
21 that's health based, but it's a safety factor.

22 MR. ALLEN: Two years ago it was 25 parts per million,
23 wasn't it?

24 MR. RIVARA: No, it was higher. Copper was like a
25 thousand. Public drinking water and groundwater standards

2 dropped to 200. Lead is being considered to be dropped also.
3 It hasn't been done yet, but that's being considered to have
4 dropped. More studies are done or more work is being done to
5 find if there's an increased possibility of problems. They
6 are lowering the number of standards.

7 MR. NATTANMAI: I wanted to make a point here. I think
8 in 1989 we conducted a well survey sending questionnaire
9 forms to each of the residents living around the area asking
10 about any drinking water they have or if they had drinking
11 water that was abandoned and we got back all the forms from
12 the public and we found out that after the County Health
13 Department announcement in 1967 cautioning the public against
14 using the groundwater for those purposes, none of the wells
15 were active after that. That's why we immediately assumed
16 that no one is using the groundwater in that vicinity of the
17 plant, using it for any human consumption.

18 RONALD VENO: There was one other question that drawing
19 so much water there, is it safe to garden this year? Can you
20 water the gardens? Let me ask you this question. Offhand
21 when did you first start monitoring the plant?

22 MR. ALLEN: We were involved with--I don't remember the
23 exact history of this, but it was for at least three years
24 prior to starting this study we were involved with
25 negotiations with Van Der Horst to try to get them to clean

1
2 up. We started in '89, so probably '86 Van Der Horst was
3 very--they were not willing to say they were responsible.
4 They contested us right to the bitter end. When we went to
5 finally just before we had this referred to our State
6 Superfund action to be the study, we issued what's called a
7 Summary Abatement Order against Van Der Horst because we
8 wanted them to clean up the plant, clean up the inside of the
9 plant, secure it. They fought that. We had a hearing
10 process. They were very unwilling to recognize the problem
11 with the plant size and perceive it, and the way the State
12 law is, we had a lot of difficulty just proceeding
13 unilaterally. If an industry is showing some interest--in
14 this instance, we don't have the same authority they gave us.
15 That's one reason why we became aware of the material inside
16 the plant. We referred it to EPA. They can do it much
17 quicker than we can. They can go right into a plant and have
18 legal authority and just clean it up, so it was immediate
19 risk such as that. But we were negotiating with
20 Van Der Horst about three years before that. It was quite
21 some time. Nobody was aware, I don't think, at least the
22 right people weren't aware there was such a problem as it
23 was.

24 RONALD VENO: You probably aren't knowledgeable about
25 this, but in 1965 or '66 when they had the fish kill, one of

2 the engineers from the Health Department requested that the
3 plant be monitored. Evidently it wasn't monitored.

4 MR. ALLEN: It doesn't surprise me. You've also got to
5 keep in mind in 1965 New York State passed a law which gave
6 us a billion dollars which is the money was being spent to
7 clean things up and not only gave the state the money to do
8 the work but also gave us a hammer, if you will, to go after
9 the responsible parties and say if you aren't, we are. We
10 also got lots more people. We got more lawyers that are more
11 able to aggressively pursue these, so a lot of these sites
12 didn't get started in the system until after '86, so as far
13 as the Superfund systems--

14 RONALD VENO: I think our air quality had a lot to do
15 with that.

16 MR. ALLEN: There's an outstanding \$5,000.00 fine for
17 air emission that was never paid.

18 RONALD VENO: I worked for the department at one time
19 and the people up in Buffalo were very, very cooperative.

20 MR. ALLEN: That was one of the things we pursued. They
21 filed bankruptcy when we--I think that's when they filed it.
22 it wasn't until we issued that order against them they filed
23 bankruptcy.

24 STEVEN BAKER: I'm Steve Baker. Exactly how far would
25 you remove the soil from the perimeter of that plant? How

2 many feet?

3 MR. RIVARA: I'm sorry, I didn't hear your question.

4 STEVEN BAKER: I'd like to know the perimeter to remove
5 the soil, how many feet from the perimeter of the site?

6 MR. RIVARA: I'm not sure that they've got the exact
7 footage defined.

8 MR. ALLEN: This roughly gives it to you.

9 STEVEN BAKER: You showed the yellow spots on the slide
10 there. Is that definite or not?

11 MR. ALLEN: There will be confirmation in the field.
12 This is based on the sample done so far. I suggest if you've
13 got a concern, after this meeting come up and talk to us.
14 I'd like to see where your house is.

15 STEVEN BAKER: I'd like to do that.

16 MR. ALLEN: Yes, ma'am.

17 DOROTHY MIKOLAJCYK: The eleven-five, does it also
18 include that demolition of that?

19 MR. ALLEN: It's the capital cost of the construction
20 which is the demolition and also removal.

21 DOROTHY MIKOLAJCYK: That's just Plant 1?

22 MR. ALLEN: Plant 1. I'm not sure about Plant 2. We're
23 still waiting. I don't know what's going to happen there.

24 DOROTHY MIKOLAJCYK: And another question. I'm not sure
25 how the bankruptcy laws read, but a homeowner that doesn't

2 pay their taxes for so many years, the property then reverts
3 to the county and I would doubt that Van Der Horst have paid
4 their taxes. I mean I don't know. And in that case then
5 would the State go after the county or would it just come
6 into play back in--

7 MR. ALLEN: Most people in hazardous waste aren't paying
8 their taxes. I mean that's what happens. The counties I
9 think have to actively take the properties, but I'm not sure
10 exactly what the law is, so the county can just leave it and
11 not acquire it, but the county can acquire it.

12 DOROTHY MIKOLAJCYK: You mean they have that option?

13 MR. ALLEN: I think so. The county has acquired some
14 sites and we have one in Oswego that we have which is a
15 remediated site and under the law the owner of the site is
16 the responsible party, but--

17 DOROTHY MIKOLAJCYK: I doubt they're gonna'.

18 MR. ALLEN: Whether they are going to pursue it? I
19 highly doubt it. Yes, ma'am?

20 JANET FUSCO: My name is Janet Fusco and I live
21 adjacent, my backyard is adjacent to Van Der Horst. I'm
22 concerned about the survey that was conducted in 1989. Is
23 that when you said it was?

24 MR. ALLEN: The well survey?

25 JANET FUSCO: No, health survey.

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MR. RIVARA: Okay.

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JANET FUSCO: Because you stated that the rate of cancer was very low, but I know at least ten people within a two-block radius who have died of cancer in the past ten or twelve years.

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MR. RIVARA: Well, I didn't personally conduct the study. It's based on the New York State Cancer Registry and the statistics that they use for the census tracks of the City of Olean were taken right from the cancer registry, and if they were reported cancer cases to the registry and they were before '86, between '76 and '86, they would have been statistically included in this. Now there are again, without breaking this whole report down, I can send you a copy of it, but there are a few hundred cases that are in there for males and females, but again with a population this size there is an expected rate and an actual rate and they were below the expected rate for the population and that was, you know, again it was done by our cancer incidence surveillance people and based on the statistics from the cancer registry. Again, if you didn't get a copy of this, we'll certainly give it to you. There's also a person who actually did the work on there and you can contact them.

24

JANET FUSCO: Thank you.

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BONNIE VENNO: The only question I have right now is

2 there was a little confusion that they were wondering the
3 demolition of this building will be this year?

4 MR. ALLEN: No.

5 BONNIE VENO: Next year?

6 MR. ALLEN: Only if we can get referral very quickly.
7 The first thing we have to do is--I'm not going to say it's
8 not possible, it could happen next year.

9 BONNIE VENO: Anyway, couple years is what you predicted
10 on the screen.

11 MR. ALLEN: Right. It's largely an eyesore right now.
12 There's really no risk associated with it. It's been cleaned
13 out. There's no chemicals left in it. Like I said, it's
14 largely an eyesore.

15 BONNIE VENO: But it definitely is going to be in 1994?
16 I was thinking, you know, if it was sooner. I don't know, I
17 guess I got that confused. Another thing when they do rip
18 this down, there are homes really close to this building.

19 MR. ALLEN: Right.

20 BONNIE VENO: If there were damage, of course the state
21 would be liable, right?

22 MR. ALLEN: Right. I mean we may have to--in certain
23 instances it's going to have to be very careful to take the
24 building down next to your house, but we'll be working with
25 you to make sure that--

2 SYLVIA SAY: I have a few questions, too. Sylvia Say,
3 1004 Vine Street. We have fruit trees all along our line and
4 if that property has to be redone with surface soil, what
5 about the shrubs?

6 MR. ALLEN: We'll replace all that.

7 SYLVIA SAY: There are animals coming out of that
8 building: possums, woodchucks. Are they any threat to say my
9 animals?

10 MR. ALLEN: I would say no.

11 MR. RIVARA: There's no way.

12 MR. ALLEN: There really isn't.

13 MR. RIVARA: I don't know, it's more of a wildlife
14 issue. I suppose there's always a possibility. I mean
15 there's always a possibility depending on what they've gotten
16 into, I guess, but as you said, most of the chemicals have
17 been removed.

18 MR. ALLEN: There are still residual chemicals, but I
19 don't know what risk. Tell you what. We'll have to look up
20 the law. It's a good question. I have no idea whether to be
21 concerned about the levels of the contamination in the
22 building, whether they're actually absorbing them.

23 SYLVIA SAY: One of our cats did get into the building
24 at one point and came out covered with something yellow.

25 MR. ALLEN: Have you seen the pictures? That was

2 probably chromic acid is what it probably was. You might
3 want to take a look at some of the pictures. There was a lot
4 of yellow crystal and it oxydized.

5 SYLVIA SAY: It was powdery all over his fur and I took
6 him over to the men that were working and they said they
7 didn't think there was any chance of it hurting him, but they
8 do walk around your house and get all over your furniture and
9 clothing. My main concern is that I am so close to the
10 building. You can stand at one point and touch the building.

11 MR. ALLEN: I know exactly right where you are.

12 SYLVIA SAY: We're very concerned about that building
13 coming down and what's going to happen.

14 MR. ALLEN: Well, if anything, it will be a great
15 advantage to you to have that building down. It can be done.
16 There's no reason why--there's always unseen circumstances,
17 but if it's done properly, it shouldn't have have any
18 effects.

19 SYLVIA SAY: We won't have to move out of the house or
20 anything like that?

21 MR. ALLEN: I won't guarantee that, but if maybe it's
22 for a day or two, who knows, it's something we'll discuss
23 with you personally when the time comes.

24 SYLVIA SAY: Also I was concerned about the gardens and
25 eating fruits in that soil. Would that be a risk?

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MR. ALLEN: Did we do any tests off that stuff?

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MR. RIVARA: Not on the fruit. I think the county had done some work back in '88 or '89. Some vegetables, tomatoes.

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MR. ALLEN: Isn't there guidelines you guys provide for washing?

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MR. RIVARA: Washing fruits, yeah. I think their reports did not find any reports with any contamination. I think it was more a question of once they washed the vegetables.

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MR. ALLEN: Aren't you supposed to keep--

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MR. RIVARA: One of the things that we recommend in most of these cases, you don't know specifics, is that if you're concerned, it's best that you not eat the fruit at this point or the vegetable or grow a garden without knowing specifics. This gentleman's garden, we'll look at where he has it and what relation to the cleanup. Our recommendation is not to do anything until the site is remediated. We can't tell you not to. We can't require you not to, but people have gone ahead and done it in some instances and some people haven't, but just based on what has been done previously by the county, they did not find a problem with update. Some fruit and vegetables are different than others. Some are taken up through the root system and some chromium didn't seem to be a

2 problem, but I don't know if there's really enough
3 information on it to say to make a real qualified
4 determination.

5 SYLVIA SAY: Thank you.

6 PHIL TRASK: Phil Trask, 149 Duke Street. Now you've
7 established the general groundwater flow southwest?

8 MR. ALLEN: Yes.

9 PHIL TRASK: Now the engineer from ERM last night did
10 his presentation on proposed DEC's access road that's going
11 through there. In their study--

12 MR. ALLEN: Where is it going?

13 PHIL TRASK: It goes from Twelfth Street in a
14 southwesterly direction and comes out on the Cranberry Road
15 in West State. One of their test wells they found
16 contamination. They found chromium and lead, correct, in
17 there?

18 MR. WITTLINGER: That's right.

19 PHIL TRASK: Probably about two miles west of there
20 generally in a southwest direction. Now it's possible there
21 has been a groundwater migration of those contaminants that
22 far?

23 MR. ALLEN: I don't know where it is.

24 MR. WITTLINGER: I would say that there are wells in
25 between the Van Der Horst site and that well that had much

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lower concentration, so in other words the source of that well up in Cattaraugus Economic Development Zone property would have to be--

MR. ALLEN: Is that soil or water?

MR. WITTLINGER: It's groundwater. Would have to be between those wells that show low levels and that well on Cattaraugus Economic Development Zone property.

PHIL TRASK: So it should generally run down?

MR. WITTLINGER: It's in the same general direction. But the point is there's wells in between the Van Der Horst well and that well that have lower concentration.

MR. ALLEN: You should definitely through dispersion it will always get lower. If it gets higher, there's some other source contributing to it.

PHIL TRASK: I've got another question. I have a friend who used to work in one of the plants. He couldn't be here and he wanted me to ask this question. He was at Plant 3 in the early 50's. Now they had--I guess that's where Dresser has their Plant 2 shipping department now. I don't know if you're familiar with any of this. They had one of the deep vats that they dipped chrome plated warship gun barrels in and I guess that site now is under a concrete floor. He was just wondering if that vat had ever been drained. He has a concern maybe there's a possibility it was filled in. Is

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there any information available about that?

MR. ALLEN: I think it would be interesting to know where it is.

PHIL TRASK: He said it's directly under the shipping department's I guess loading dock right now.

MR. ALLEN: At Dresser?

PHIL TRASK: At the Dresser Plant 2 shipping department.

MR. ALLEN: Interesting. Well, you know, Dresser was on the registry at one point, I don't know if it still is, as a hazardous waste site. See, this is another argument for the reason--another item in our argument why we're so apprehensive about implementing a program that would attempt to remediate this aquifer back to its, you know, pre-contamination condition because--and we run into this now in the large deep river vallies--that I mean if you dump a paint can full of solvents in one location, you'd be amazed at how much water that would contaminate, so it's not always really practical to attempt to remediate possibly an area back to its groundwater standard when there's the potential for having some other sources influence the aquifer. Just to give you an example on it, one of the things we looked at when we were trying to recommend an action here is we got a printout of all the spills that had been reported to DEC in the last three years and you'd be amazed, you know, they're

2 cleaned up to some extent, but there's probably some--all
3 these things eventually may affect the condition of the
4 groundwater. How much influence on that I don't know. Maybe
5 it will all be held up in the sky, but these are the type of
6 things we've got to look at when we decide how expensive it's
7 going to be to remediate and that may develop still and could
8 be influencing it, but I think it's interesting information
9 and we'll pass it on. We have another group that looks at
10 potential sites and maybe they'll be interested in this.

11 Yes, sir?

12 MARK BECKER: Mark Becker. I'd like to just clarify
13 some of the information that you had given out earlier. I'm
14 not sure if I understand it right. You're saying that
15 possibly the ROD will stipulate that there will be
16 on-site placement of the solidified material?

17 MR. ALLEN: That's what the ROD will stipulate.

18 MARK BECKER: It won't leave the option of transporting
19 to Plant 2?

20 MR. ALLEN: We'll discuss that, yes. We'll leave that
21 as an option based on what's chosen as the remedy, so the
22 people at Plant 2 around that area would have an opportunity
23 to look at that when we come to you with the recommended
24 remedy for Plant 2 and we can discuss it with you.

25 MARK BECKER: So that's a very flexible concept at this

2 point?

3 MR. ALLEN: It's not very flexible. The only thing
4 that's flexible in the ROD where they will ultimately dispose
5 of this material. I'm not going to predispose what's going
6 to occur at Plant 2. We're leaving that as an option. If we
7 didn't have Plant 2, we would be considering solidifying and
8 leaving it. We've got to balance everything really with
9 what's environmentally best, what's best from the public
10 health standpoint from exposure, so I mean if this wasn't
11 another Van Der Horst plant site, we wouldn't have this
12 option to us. I mean legally we couldn't do it under the law
13 since particularly the new regulations that are being passed
14 that will permit this type of consolidation waste and a lot
15 of the wastes at Plant 2 originated at Plant 1 in that
16 landfill. We know that.

17 MARK BECKER: It appears as though you've done a good
18 job so far.

19 MR. ALLEN: Thank you.

20 MARK BECKER: And finally you had mentioned a target
21 pump rate of 250 to 300 gallons a day?

22 MR. ALLEN: Per minute. It's roughly a half a million
23 gallons per day.

24 MARK BECKER: Okay, thank you.

25 MR. ALLEN: If there's no more questions, I want to

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thank everybody for coming. We'll stay here--I certainly
want to talk to you so we can identify where your house is,
so come up and take a look at the map and pictures.

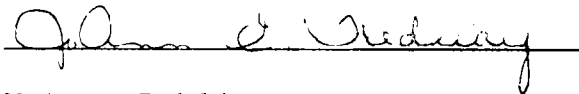
(Whereupon, proceedings were concluded
at approximately 8:20 p.m.)

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C E R T I F I C A T I O N

I, JO ANN E. TREDWAY, Shorthand Reporter and Notary Public in and for the State of New York, do hereby certify that I recorded stenographically the proceedings herein at the time and place noted in the heading hereof and that the foregoing is an accurate and complete transcript of same to the best of my knowledge and belief.


Notary Public

DATED: March 10, 1992