

70395

EXHIBIT SHEETS

Date: 12-14-00

Hudson River PCBs Public Meeting

10.7027

1 You can send your comments through
2 close of business February 16th to Doug and
3 Alison, and we will respond to those comments
4 and respond in the summary later on down the
5 road.

6 Just a couple of ground rules here.
7 When you come to the mike to speak, you have
8 two minutes. Everybody gets two minutes. We
9 enforce two minutes. Enough said.

10 If you have not filled out an index
11 card to come to the mike and you want to come
12 up and ask a question or give comment, please
13 do so.

14 Back out in the room where we have
15 the exhibits, we do have index cards. Please
16 fill one out, and they will be given to me up
17 here at the platform.

18 As you can see, we have two signers
19 here also for the hearing-impaired.

20 Now, I am going to turn it over to
21 Rich. Thank you.

22 (Applause.)

23 MR. CASPE: Thank you. Just a couple
24 of other points first: Don't you wish you
25 could bottle this heat and take it home?

1 We used this model to try to predict,
2 as best we could, what would happen if you did
3 certain things.

4 As I said, you start turning
5 different dials and understanding how the river
6 responds as you turn those dials.

7 We did all that, and we think we came
8 up with a very sensible, practical and common
9 sense approach.

10 And I would like to go into that
11 remedy and explain it to you a little bit.

12 Now, the first slides that have been
13 up here since you walked in shows the three
14 sections of the River.

15 The 40-mile stretch of the River here
16 is what we call the Upper Hudson.

17 The first section is six miles long
18 and is the most contaminated.

19 And when I say "the first", that is
20 Section One.

21 The northernmost section is six miles
22 long. It is the area, basically, between
23 Roger's Island, Fort Edward, and the Thompson
24 Island Dam.

25 In that area, fish are highly

1 This is the preferred alternative
2 that we have.

3 When we say "targeted", they say,
4 "Well, how can you target something that is 2-
5 1/2 billion cubic yards, when the river is 35
6 miles long in this area and has an immense
7 amount of sediment in it?" as you obviously
8 would imagine.

9 The acreage within that area is
10 roughly 3900 acres.

11 And as I will show you on the
12 following slides -- which I am not ready to go
13 with yet -- of that 3900 acres, we are actually
14 impacting less than 500 of them, less than 13
15 percent of the surface area.

16 That is pretty targeted. We could
17 have certainly targeted a greater area.

18 We looked for the benefit. We looked
19 at the benefits, and we looked at the issues.
20 We said, "Well, how do you..." -- we wanted to
21 minimize dysfunction, certainly, and we wanted
22 to maximize improvements.

23 We came up with a rationale that did
24 that.

25 Would lower the fish concentrations.

1 We lowered the risk of movement of
2 the PCBs, and would lower the level of PCBs that
3 would go over the Troy Dam by approximately 40
4 percent into the downriver area.

5 The remedy we came up with was 2.65
6 cubic million yards of sediment removal, over
7 100,000 pounds of PCBs; roughly half the PCBs
8 in the Upper Hudson River is what we are
9 talking about removing.

10 The other half are diffused in other
11 locations or in stable locations where we felt
12 it was unnecessary to remove them.

13 It costs around \$460 million. And
14 that is impressive work. That means we have to
15 invest \$460 million now in order to have enough
16 money to pay for the construction when you
17 actually construct -- begin construction of
18 this job in three-and-a-half years.

19 We came up with no local landfill.
20 There was serious objection to it.

21 We felt that it was probably
22 administratively impossible, as well as highly
23 unacceptable to local communities.

24 So, we removed -- there is no local
25 landfill.

1 going to have new channels so that the river
2 will remain navigable while we are doing the
3 work, and navigation may very well improve.

4 As to dewatering facilities, there
5 will be two of them.

6 They will probably cover around 15
7 acres each.

8 There will be dewatering on the north end
9 and dewatering on the sound end, in all likelihood,
10 and they will be on commercial properties.

11 We are not talking about setting
12 these things on farmland or unspoiled property.

13 These would be located on existing
14 industrial/commercial facility areas.

15 We are going to move this material by
16 rail.

17 We are not going to move the material
18 by truck. There will not be a lot of trucks
19 clogging the area.

20 We expect to be able to -- one of the
21 criteria as we site these facilities is that we
22 have rail transport for those locations.

23 Well, people say you cannot do it in
24 five years.

25 We believe you absolutely can do it

1 is that River Section 1 that Rich showed you on
2 the map, a six-mile reach of the river -- that
3 they come in at a level that is fairly low but
4 go out with a lot more PCBs in them.

5 So, there is a lot of increase of the
6 PCBs that would cross that part of the pool.

7 That increase of PCBs comes from the
8 sediment, and it is equivalent to about one- to
9 one-and-a-half pounds of PCBs per day.

10 Next slide. This graphic shows you
11 in the yellow the approximate concentration
12 coming into the upstream boundary, and the blue
13 is the concentration that leaves.

14 You can see that there is a large
15 increase.

16 You can see that there is a change in
17 the bottom. The bottom is PCB homologs. The
18 site is the mass in pounds per day.

19 And you see the overall increase.
20 And you add all those rows together, that is
21 how many pounds per day.

22 But you also see a change in the
23 pattern of PCBs, and that is how we identified
24 that it would be coming from the sediments and
25 not any other source.

1 But there are no other real sources
2 than the sediment in this area, and it has to
3 be coming from the sediment.

4 So, PCBs do come from the sediment
5 and contribute to the water.

6 What processes naturally might solve
7 this problem?

8 We investigated two of these
9 thoroughly.

10 The first thing that we considered
11 was PCB dechlorination.

12 We found that PCB inventories will
13 not be naturally remediated by dechlorination.

14 Dechlorination is where the chlorine
15 atom on the PCB atom will be stripped off by
16 organisms in the sediment.

17 This does occur. This is one of the
18 reasons we can do the fingerprinting that we
19 saw from the previous slide.

20 What we found was that only 10
21 percent of the base of the PCBs would be lost
22 through this process.

23 And the big thing here is that this
24 is controlled by concentration and not time.

25 It is not just that we need, another

1 levels that exceed that by many times.

2 We did risk assessments, and we
3 studied several exposure pathways.

4 The predominant pathway of exposure
5 here, the primary pathway that we are concerned
6 with, is consumption of fish.

7 And we found that both human and
8 environmental risks exceed acceptable levels.

9 ñ The cancer risk is a thousand times
10 the goal that EPA uses for protection.

11 We also found that there are non-
12 cancer hazards over a hundred times the
13 acceptable level for a young child, and that is
14 65 times the level for an adult, non-cancer
15 health effects, such as low birth rate, immune
16 problems and immune deficiencies, inability to
17 fight infections.

18 We also did ecological risk
19 assessments on the river otter, mink and bald
20 eagle.

21 And, for example, with the fish-
22 eating mammals and birds, higher levels of the
23 food chain, there were unacceptable levels.

24 We put all this together and we found
25 that the natural processes were not doing it

1 and we have currently unacceptable levels.

2 So, we felt that active remediation
3 was necessary.

4 And, at this point, we will turn it
5 over to the next part of the study, the
6 Feasibility Study, which has just been released.

7 And Alison will explain this.

8 (Applause.)

9 MS. HESS: Thank you. There are some
10 seats available in the front, if you would like
11 to make yourself comfortable.

12 What I am going to do now is show you
13 the process that EPA used to arrive at its
14 preferred alternative.

15 The purpose of the Feasibility Study
16 is to evaluate options to address the PCB
17 contaminated sediments in the Upper Hudson
18 River to protect human health and the
19 environment.

20 The objectives of our study included
21 goals for fish.

22 In fish, we want to reduce the cancer
23 risks and non-cancer health hazards for people
24 eating fish by reducing the concentrations of
25 PCBs in the fish.

1 per meal -- one fish meal every two months
2 would be at safe levels from 20 to 40 years
3 earlier than under no action.

4 And one fish meal per month could be
5 reached at 25 to 30 years earlier under this
6 alternative.

7 And, certainly, this would be faster
8 in the third river section, the last 29 miles
9 of the Upper Hudson River.

10 We would also meet our target
11 concentration of 0.05 parts per million in fish
12 within that third river section in the last 29
13 miles.

14 We would have monitored natural
15 attenuation, with the residual PCBs,
16 until the acceptable levels are reached.

17 And this alternative assumes source
18 control at the GE Hudson Falls site.

19 The aspects of this alternative are
20 in direct response to many concerns that we
21 have heard already: There is no local
22 landfill; we would accommodate the normal flow
23 of river traffic; and we would complete the
24 project in five years using multiple dredges,
25 and we would be in any one location for a short

1 I want to thank the EPA on behalf of
2 the Congressman for the excellent presentation
3 it made here this evening, and thank all of you
4 folks for coming out here this evening and for
5 giving an attentive ear to listening to our
6 major concerns.

7 I wanted to keep it real short.
8 Thank you very much.

9 MR. CASPE: Catherine Hudson,
10 representing Attorney General Eliot
11 Spitzer?

12 (Applause.)

13 MS. HUDSON: Thank you. My name is
14 Catherine Hudson. I am Assistant Attorney
15 General with the Environmental Protection
16 Bureau.

17 We appreciate the opportunity to
18 present this statement on behalf of the Office
19 of the Attorney General.

20 The Attorney General's Office
21 strongly supports the Environmental Protection
22 Agency's decision to dredge sediments in the
23 most contaminated areas of the Hudson River.

24 Fish throughout the Hudson River,
25 from Hudson Falls to the Battery, are

1 MS. HUDSON: Based on the evidence of
2 the record and EPA's and the State's technical
3 and scientific review of the evidence, four
4 points are clear and should be indisputable.

5 One: PCBs cause harm to humans and
6 wildlife. That harm includes immune,
7 reproductive, nervous and endocrine system
8 injury, as well as cancer.

9 Two: PCBs in the river sediments are
10 available to fish and other animals and from
11 there can be ingested by humans.

12 We know that people are still eating
13 contaminated fish from the Hudson River.

14 Three: The river is not cleaning
15 itself of PCBs.

16 While the river is cleaner now than
17 it was 30 years ago, that is largely because
18 the State has expended tremendous resources to
19 reduce sewage and other industrial discharges.

20 The PCBs that remain in the river are
21 invisible. The PCB levels in the fish have only
22 decreased marginally in the over 20 years since
23 GE stopped using PCBs at its Hudson Falls and
24 Fort Edward plants.

25 Over the last seven years, they have

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24 Fort Edward plants.

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1 were not contrary to the common misperception
2 to taxpayers who will have to pay for the
3 clean-up if GE does not.

4 To those towns and industries who
5 have done their share to clean the river and to
6 New Yorkers who long for a cleaner Hudson
7 River, fairness, to me, means that GE removes
8 its toxic wastes from the river.

9 We save the river by cleaning it, not
10 by leaving it polluted.

11 Thank you.

12 (Applause.)

13 MR. CASPE: I would also like to just
14 acknowledge that we also received a statement
15 from New York State Assemblyman John Fasso,
16 which we will enter into the record.

17 Okay. It is your turn now. Again,
18 pay attention to Karen. She is an ex-crossing
19 guard. She is going to be holding up the green
20 and yellow and red signs.

21 The yellow sign means 30 seconds and
22 the red shows stop.

23 We have 75 people who have filled out
24 cards to speak. At two minutes even, that is
25 150 minutes, which is close to three hours;

1 two-and-a-half hours, anyway.

2 And that does not include the break
3 that we have to take at some point.

4 So, it is going to be a long time.
5 Let us try and keep it to two minutes each so
6 that everyone may have an opportunity to speak
7 and get home at a relatively reasonable hour.

8 I am going to call people five at a
9 time to the microphones. Then, after those
10 people speak, I will call the next group of
11 five.

12 This way, perhaps, we can keep people
13 moving and it will not get too crazy here.

14 So, let us start. The first speaker
15 is going to be Sonja Peters; then Dave Keegan,
16 Robert Robinson, Congressman Joe Ruggiero, then
17 Robert Hanson.

18 If you ask me why this order, I have
19 no idea. That is the order I got the cards in.

20 Sonja Peters?

21 MS. PETERS: Hello. My name is Sonja
22 Peters. I am 10 years old, and I just wanted
23 to say that I would really like the river to be
24 cleaned up because then I could swim in it and
25 not be scared that PCBs will be getting into

1 I would also like to thank the many
2 members of the DEC -- I will stop. Okay.

3 (Applause.)

4 MR. KYRIACO: I am Lee Kyriaco. I am
5 a former city Councilman, Beacon, six years.
6 It is a community on the Hudson River.

7 I recently ran for State Assembly to
8 represent several communities.

9 I have been a senior vice-president
10 at Fleet Bank, where I have been the Director
11 of Planning, and also a senior vice-president
12 at Chase Manhattan Bank before that.

13 I have no particular predisposition
14 to penalize corporations arbitrarily. Those
15 are the things I am.

16 What I am not is a scientist, an
17 expert in this field or, certainly, a full
18 reader of all the materials that have been
19 developed here.

20 So, how do I or any layperson really
21 assess all that is going on here?

22 I guess it comes down to reliance on
23 the scientists; that we should ensure
24 impartiality and ensure local input.

25 In my view, the EPA has done just

1 at. They have provided exceptionally
2 thorough science. It has been extensive.

3 It has been thoroughly extensive -- it
4 has been years and years; maybe too long --
5 peer review; that means impartial,
6 disinterested experts when dealing with a
7 process.

8 That should convey impartiality, and
9 it does so. And it has also been reflective of
10 local concerns.

11 If the EPA has done a good job, then
12 why is there any public hullaballo whatsoever?

13 Well, that is pretty simple. That is
14 because there is one party -- and only one --
15 that has a direct financial interest in the
16 outcome, and that is GE, because they will have
17 to pay for it.

18 And I just wanted to note that for
19 the record that that clouds every single
20 statement by GE in court, in science, in all
21 their public statements --

22 (Applause.

23 MR. KYRIACO: To understand fully
24 GE's financial liability, one could imagine
25 what the debate over the last 20 years might

1 action of the river and uptake into the food
2 chain;

3 "And, whereas partial dechlorination
4 yields molecules which are still toxic, as well
5 as being water-soluble and volatile and mobile,
6 therefore being more bioavailable;

7 "And, whereas PCBs pervade the food
8 chain with total body loads building up in
9 humans and other living things;

10 "And, whereas an estimated \$800
11 million has been lost over the last 20 years
12 because of the closure of Hudson River
13 commercial fisheries and restrictions on
14 recreationally-caught fish, with the result
15 that the Hudson Valley has lost an important
16 cultural heritage;

17 "And, whereas many people do eat the
18 fish they catch in the Hudson River because
19 they are either ignorant of or ignore the
20 Department of Health's warnings;

21 "And, whereas EPA's plan calls for
22 selected dredging of the hot spots, the dredge
23 being deposited in already-established toxic
24 waste facilities where they may be
25 contained..." --

1 They are much cleaner. There is no
2 significant increase in turbidity around the
3 dredging project.

4 It can be done cleanly. It is cost
5 effective. It is safe. And there is no reason
6 not to do it.

7 Thank you.

8 (Applause.)

9 MR. CASPE: Jeanne Kelly?

10 MS. KELLY: I chose to live in New
11 York State, specifically the Hudson River
12 Valley, because of the Hudson River.

13 I chose to live on the west shore in
14 Kingston, New York, due to all of the public
15 river access.

16 I am the mother of a 12-year-old boy.
17 We swim, sail and fish the river daily
18 throughout the summer.

19 And it is all a great day, except
20 that we cannot eat the fish that we catch
21 because we have to release due to the effect
22 that it is PCB laden.

23 We vote for dredging the Hudson. Let
24 us clean up the river. Let everyone admit and
25 do their responsibility.

1 break.

2 I know you all probably want to get
3 home.

4 The next speaker is John Mylod.

5 MR. MYLOD: John Mylod, M-y-l-o-d,
6 Poughkeepsie, New York.

7 I, too, want to express my
8 appreciation to EPA, Region 2, and all the
9 other Federal agencies for all the work they
10 have done on this project over the years.

11 I also want to commend Mrs. Browner
12 and Governor Pataki and DEC Commissioner Cahill
13 and Attorney General Spitzer for their support
14 in this project.

15 I do support the project, although I
16 think I am just for the first time seeing the
17 slides tonight about an incremental increase in
18 cost leading to a pretty large incremental
19 increase in cost for removal of the PCBs from
20 the river.

21 I think the broader project would be
22 something I would support more than the
23 preferred alternative right now.

24 However, I certainly do, at the
25 minimum, support the alternative that EPA is

1 positions has stressed a moral obligation for
2 each generation to leave a better legacy for
3 future generations.

4 MR. CASPE: I am sorry, but your time
5 is up. You can give us the written statement,
6 and we will be sure to read the rest.

7 The next speaker is Marla Hall.

8 MS. HALL: My name is Marla Hall,
9 Project Coordinator with NYPIRG. We are also
10 a member of over 70 student organizations which
11 make up the Coalition of Students for a Cleaner
12 Hudson.

13 And I would commend the EPA on their
14 decision to dredge the river.

15 I would like to also just comment
16 that a man by the name of Ralph Nader once
17 commented that people very rarely, when asked
18 what they own, list the woods in their back
19 yard, as they rarely list the river that runs
20 through the neighborhood.

21 They often times list their homes or
22 house.

23 And I think it is a really, really
24 interesting insight.

25 If someone were to come in and steal

1 And I think it has even happened here
2 in Dutchess County, where people are halfway
3 reasonable.

4 They have been brainwashed. Have you
5 seen any of GE's TV ads?

6 Please consider socking some money
7 into a public information campaign on the
8 realities of dredging.

9 That's it. I just want the people
10 that are remaining here -- you know,
11 unfortunately, there are a bunch of Town Boards
12 in the Upper Hudson Valley that have said, "Oh,
13 you know, we do not want PCBs dredged."

14 I am asking all the activists that
15 are still here tonight to work on the County
16 legislators and the Town Boards across Dutchess
17 County.

18 We can get resolutions passed by the
19 Town Boards across Dutchess County and in the
20 County Legislature for the suction pump
21 technology.

22 Lastly, I wanted to express my
23 gratitude, again, for your coming to this
24 decision.

25 With the new Administration coming in

1 Hudson River for 45 years.

2 And it is the most beautiful river in
3 the nation.

4 And do we have the right to make
5 another town or municipality accept our toxic
6 waste?

7 There is going to be a lot of stuff
8 removed, and we are going to have to find some
9 place to dump this stuff.

10 I do not think that we have the right
11 to force our contaminated waste on other
12 people.

13 I do not think we have the right to
14 transport it by truck or rail.

15 And I do not think we have the right
16 to force GE to, more or less, foot the whole
17 bill for this whole thing.

18 It has been brought out that they did
19 nothing wrong. It was not illegal at the time
20 that they dumped the waste.

21 With GE, the way they work, this
22 project goes back to waste-dumping probably 40
23 years or more, and that is a long, long time
24 for those PCBs to be dissipated into the water
25 current downstream past Poughkeepsie and

1 cancer, you remove the cancer before it spreads
2 Mr. Jack Welch of General Electric
3 and EPA, you are morally bound to do your civic
4 duty and clean up the PCBs; get them out of the
5 food chain.

6 We all live downstream from GE. We
7 want to be able to eat the fish and reopen the
8 fisheries safely.

9 History will judge you, Mr. Welch,
10 Mr. B. and Mr. Haggard, by the actions your
11 take.

12 And I honestly do not know how those
13 three gentlemen sleep at night.

14 Thank you.

15 (Applause.)

16 MR. CASPE: The next speaker is Mark
17 Searle.

18 MR. SEARLE: Mark Searle, S-e-a-r-l-
19 e. I am the Secretary of the Mid-Hudson
20 Chapter of Trout Unlimited, an international
21 conservation organization of over 150,000
22 members dedicated to the restoration and
23 maintenance of America's coldwater fisheries.

24 And the Mid-Hudson chapter in
25 Dutchess County is one of the most active organizations

1 REVEREND PARRISH: When you talked
2 about sealed freight cars, that seemed to be
3 the level of thinking at this point.

4 And I think you have got to get much
5 more sophisticated beyond that before you
6 start this process because, once you get it out
7 of the water and the waters are drying out,
8 you are creating a hazardous product that millions
9 of people are going to be breathing.

10 MR. CASPE: The material would be dried
11 out in a dewatering facility.

12 REVEREND PARRISH: And as soon as it is dried out, it will
13 go into the air. You will not have a totally
14 contained facility.

15 So, you are dealing with a human
16 hazard here of enormous proportions.

17 So, I am just saying that we have to
18 study this.

19 We have been working on this project
20 for seven years in New Jersey as well as New
21 York City. And that is not the way to go.
22 I have more detailed written comments here.
23 I am not really sure what to do with
24 these.

25 MR. CASPE: We will take them. Thank

1 Hudson Valley Wildlife feels that
2 additional technologies should be incorporated
3 to safeguard and enhance the restoration of the
4 Hudson River.

5 Please keep your mind open to
6 utilizing these channels of scientific
7 projects.

8 With either decision, it is very,
9 very important to the community how the
10 procedures are taken care of following that.

11 Thank you.

12 (Applause.)

13 MR. CASPE: I will state that we did
14 investigate hydrobotanical remediation, growing
15 plants. There were studies that we did look
16 at, but we did not get significant PCB uptake
17 through those plants.

18 But we have studied that, and that is
19 within the Feasibility Study.

20 Is that correct, Alison?

21 MS. HESS: Yes.

22 MR. CASPE: There was a 5,000-page
23 study that was put out.

24 If you look in there and you are
25 interested, you will find some analysis of