CN - Orgo Forms v. Two Colts Neck

8/21/80

Kranscript of proceedings: witnesses: - William Whipple - Richard Moser - Glenn Gerkin -Donald Kreter - Henry Ney



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Frederick J. Johnson, III, C.S.R.,

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		2	August 7:00 j	; 21, 3 p.m.	1980	
	BEFORE:					
		BOARD MEMB	ERS:			
P. O. Box 227 Allenhurst, N. J. 07711		J. SCHRUMP L. LARKIN	H, Chai	man		
, Box k, N.		G. BRENNAN				
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C.S.R.,		DAVID J. F Attorney f			ant.	
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		JAY HERMAN Atborney f		Board	of Education.	,
					n R. Taylor Reporter	

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3 1 THE CHAIRMAN: You may proceed, 2 Mr. Marks. 3 MR. MARKS: General, could I 4 ask for the benefit of everybody in the 5 audience, if you could turn your chair a 6 little bit around, and I'll just move back. 7 If you can try to keep your voice up, we 8 will appreciate it. 9 10 WILLIAM WHIPPLE, JR., Sworn. 11 DIRECT EXAMINATION BY MR. MARKS: 12 General Whipple, can you tell me what your ٩ 13 occupation is and your present capacity? Could you give 14 us a little bit of history as to why I refer to you as 15 General? 16 I am a Research Professor at Rutgers University. 17 From the first of my time and the balance of my time, 18 I am a Consultant for the Delaware Raritan Canal Commission 19 engaged in the handling of storm water management analysis 20 for that Commission in four counties of New Jersey. 21 I'm sorry. You are in charge of what? Q 22 Storm water management. 23 You refer to me as General, because I had thirty 24 years in the Corp's of Engineers in the Army. I retired 25 with the rank of Brigadier General. For the last fifteen

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PAGE years I have been continuously with Rutgers University, head of the Water Resources Institute until last July. Were you Dimetor of the Water Resources Q Institute at Rutgers for a period of close to fifteen years? A Fifteen years, yes. Q Did you not serve as the Chief Engineer for the New York World Fair Corporation? A Yes, I did. Q That was for the construction period? A Yes. MR. BRENNAN: May I ask which World Fair? MR. MARKS: Certainly, I'm sorry. '64, '65. THE WITNESS: BY MR. MARKS: And during 1930 to 1960, you served in the Q Army as a Brigadier General. Could you explain for the Board what some of your functions were? In peace time I was engaged in civil work with the A Corps of Engineers involved in planning and construction and administration of flood control. Hydroelectric power which is usually civil work in the Corpsoof Engineers. Most of this was in the West of the United States. I had service in Washington, D.C. as well. The Chief

Engineer's Office, District Engineer Division, Division
 Engineer and Board of Engineers for all of the usual
 assignments that the Corps of Engineers Office gets into
 in peacetime.

⁵ Q Turning your attention to the years 1974
 ⁶ on forward, did you serve as a Chairman of the University
 ⁷ Council on Water Resources?

A Yes.

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Q Did you serve as Chairman of the Flood 10 Control Committee of Princeton Township?

Yes, I still am.

Q Have you published at all? A Yes, I published over a hundred articles since I have been at Rutgers in various journals. I am the editor of a total of five books in monographs. One book wholly published in monographs and three in which I was the Chairman of a conference and also the Editor of the Publication Conference.

19 Q Have you ever testified before Congressional
 20 Committees?

A Many times.

Q Could you describe in what respect you
testified?
A I testified when I was with the Corps of

Engineers on behalf of the authorization and appropriation

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for various tivil works of the Corps of Engineers, authorization and appropriation committes.

I have testified about seven or eight times on proposals for research functions in water resources. This is within more recent years. It was in support of appropriations for research and water resources.

> MR. MARKS: I have a resume of General Whipple's qualifications, which I ask the Board's indulgence that we have marked. We can get copies of it a little later on.

Mr. Sagotsky, I think we may be up to PB-10 or 11.

MR. SAGOTSKY: It will be PB-10. (Whereupon, a resume of General Whipple's Qualifications is received and marked PB-10 for identification.)

18 BY MR. MARKS:

Q

¹⁹ Q General Whipple, you are obviously familiar
²⁰ with the surface water level runoff; is that correct?
²¹ A Yes, I am.

Q Are you familiar with the effects that
developments will have on surface water runoff?
A Yes.

Could you tell us generally what the effects

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I of the development would be?

A There is some pollution that comes from all land,
from undeveloped land. It comes in the form of erosion.
When land is developed for agricultural, there are
nutrients that come from fertilizer, and, of course,
additionally, erosion depends on how well the land is
handled.

⁸ When development comes in, housing developments
⁹ have additional effects, depending on the density, and
¹⁰ then, of course, commercial and industrial development
¹¹ may have a great deal of pollution entirely. We are
¹² concerned here tonight with the development that comes
¹³ from housing.

Q May I interrupt you at this second and go
back to that line of questioning.

¹⁶ I'd like you to address the question in terms
 ¹⁷ of the degree and amount of surface water runoff that
 ¹⁸ occurred from the development as opposed to non-development
 ¹⁹ in high density versus single family density?

20 A You are concerned with the quantity?

Q The quantity, yes.

21

A The quantity of runoff depends very largely on the
impervious surface. Of course, you have infiltration
depending upon the nature of the land, but all
developments bring impervious surfaces. Also, a great

deal of the land gets rolled, and graded and lawns get
substituted for forests, and so you have a decreased
infiltration.

So that with a lot of development you get more
runoff.

I made a little computation here using the soil
conservation service publication for soils of the type
that you have here. I took several different types of
housing. That is open land that is completely undeveloped
and contrasted that with one acre zoned land and a quarter
acre zoned land. I took a 1.8 inch rainfall, a good
heavy rainfall falling over a 24 hour period.

Q Excuse me, is that defined as a class two
 storm by the Agricultural Service?

15 Yes, it is defined exactly as a class two storm, 16 meaning a storm that has a slow rain with a very heavy peak 17 in the middle of it. What we get from that housing is 18 that the open wooded area that was completely 19 undeveloped, would have four one hundredths of an 20 inch of runoff. For one acre zoning would have fifteen 21 one hundredths, and a quarter acre zoning would have .29 22 one hundredths or seven times as much as the completely 23 undeveloped land, or almost twice as much as the one 24 acre zoning.

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More dense development, of course, has greater

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impervious surfaces and greater runoff. Now, of course, you get different results if you have larger or smaller storms than that. With smaller storms the difference is greater. What it amounts to, is densely developed land hasmuch more runoff than land that is not so densely developed.

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Q Thank you, General.

I would just like to ask you one further question for mathematics.

If the parcel were developed on the basis of six units per acre, as opposed to single family residency developments, would the runoff factor as it is, be increased roughly three times?

A Yes, it would be about three times as much as one acre zoning.

Q Let me enter into another area.

¹⁷ This is a relatively newer area of environmental
¹⁸ inquiry, which is a non-point source pollution.
¹⁹ Could you explain to the Zoning Board what that is and
²⁰ how you happened to become acquainted with it?
²¹ A Non-point source pollution is the pollution that
²² occurs not from waste treatment plants or big industries,

but directly from the land, from the houses, and the many minor leaks and sources in an urbanized area.

I became familiar with this research which I conducted

	Whipple - direct PAGE 10
1	through Rutgers.
2	MR. SAGOTSKY: May I interrupt,
3	please, for a moment. May I suggest if it
4	meets with your approval, that you call the
5	roll. One of our members has just come in.
6	THE CHAIRMAN: Excuse us, Mr.
7	Whipple.
8	Would you call the roll, please.
9	THE CLERK: Mr. Schrumph.
10	MR. SCHRUMPH: Here.
11	THE CLERK: Mr. Larkin.
12	MR. LARKIN: Here.
13	THE CLERK: Mr. Brennan.
14	MR. BRENNAN: Here.
15	THE CLERK: Mr. Tischendorf.
16	MR. TISCHENDORF: Here.
17	THE CLERK: Mr. Nieman.
18	MR. NIEMAN: Here.
19	THE CLERK: Mr. Dahlbom.
20	MR. DALHBOM: Here.
21	THE CLERK: Mr. Ferer.
22	THE CHAIRMAN: Would you proceed.
23	BY MR. MARKS:
24	Q Had you finished your dissertation on what
25	the runoff and pollution and what the amount would be?

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A No, I had not. We found out really by accident because we were looking at something else. We discovered three rivers, which were the Millstone River, the upper Passaic and the upper Raritan. All had at least three times as much pollution in them as we could account as coming from the industries and waste treatment plants that were State records.

8 This was a very astonishing finding which nobody 9 at that time had anticipated. This goes back to 1970. 10 The first time the officials in the State were very 11 reluctant to admit this was the case, but this has long 12 since ceased to be. It is now recognized both in the 13 State of New Jersey and at Federal level, that this 14 miscellaneous or diffuse sources of pollution are very 15 important. That a great deal of pollution comes from 16 them and waste treatment plants having been sponsored and 17 funded by the EPA and State DEP did nothing to take care 18 of the non-point source pollution that is doing a great 19 deal of harm. Prior to ten years ago, it was 20 virtually unknown.

Q Would this be a fair question to ask that
in New Jersey, in small stream areas such as you find
in the Colts Neck area and, et cetera, do you feel the
non-point source pollution or runoff pollution is at
least as great a threat to the environment as direct

pollution?

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2 On small streams in New Jersey it is a great 3 threat because there are streams in New Jersey which vary 4 from unpolluted to extremely polluted, and have no point 5 sources at all.

6 I can give two cases which were extremely polluted 7 and those are Mile Run, in New Brunswick and the West 8 Branch Shadow Company in Trenton, which had no point 9 source, and they are extremely polluted streams. Many 10 other streams that are densely occupied and left 11 polluted, but on those small streams, the extent of 12 the pollution and environmental degradation is dependent 13 almost entirely upon the occupation and type of occupation 14 in the streams.

15 Did you have an occasion in any of your 0 research to examine the Twin Rivers project in Hightstown? Yes, I did. We made a special study of the Twin A Rivers project.

Could you describe to the Board some of your Q findings that you determined from that study?

A Well ---

> MR. FRIZELL: I object to this. It seems to me the validity of whatever may have been done were not found in Twin Rivers has nothing to do with these

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proceedings. Unless we can go forward from that. I really don't know what that has to do with the proceedings, what Twin Rivers is doing.

MR. MARKS: The Twin Rivers study will indicate whether various types of pollution that was generated from especially high density residential development. I think it is the closest we have within the surrounding area to draw some sort of conclusion or comparison to the project that you are contemplating. I think it will also give us an idea of the nature of the pollutants in dealing with the non-point source pollution. To that extent, I think the question is relevant.

THE CHAIRMAN: If you can directly relate the Twin Rivers as being similar to that being proposed here, we will entertain that line of testimony.

MR. FRIZELL: Mr. Schrumph, that is the source of my objection. Mr. Kovacs is here and he is familiar with Twin Rivers. He testified that the design of this project is very much different from Twin Rivers. I

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suggest that the Twin Rivers study really is not very relevant. An engineer who designed the project, it seems to me, if Mr. Marks had intended to show some similarity between the two projects in terms of design, that was the appropriate point to do it.

I don't think General Whipple

is in a position to compare the two. I don't know how Mr. Marks would even begin to make that comparison. We have had extensive testimony from the engineer. In fact, the Twin Rivers comparison has come up many times. Engineers have told us time and time again about Twin Rivers, and this is not Twin Rivers. The design is quite different and there is a lot of technology in the buildings that were not bilt into the Twin Rivers design.

THE CHAIRMAN: With what respect in density? I would entertain on density alone, not the design.

MR. MARKS: Absolutely. MR. FRIZELL: The design is everything, Mr. Schrumph. We have had testimony on the design.

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MR. MARKS: I think we are going to address some part of the engineering design a little bit later. I'm sure we will get a chance to get into that. I think you might be interested with the problems of design.

MR. FRIZELL: The point before the Board at the moment is whether or not there is any probative value in knowing what General Whipple's discovery was at Twin Rivers. I suggest there is none.

MR. SAGOTSKY: I suggest that the Board make its ruling and go on with it. You can't satisfy all parties, Mr. Chairman.

MR. BRENNAN: The density is equal, the topography equal, the soil conditions equal, generally, and if the General can distinguish between that project and the Colts Neck individually, we can first draw those facts out and then it might be worth while to pursue that line of questioning. I think it has been alleged in testimony there are design differences here. You have to know what the

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comparisons are and what the differentials are.

MR. MARKS: Mr. Brennan, we are really not addressing ourselves to design versus design. In other words, design of the surface water management program in the Twin Rivers versus what is proposed here. We are talking about higher density zoning and the effect that the surface water has when it passes over this higher density in terms of picking up contaminates and pollutants. That's what we're talking about.

MR. BRENNAN: With respect to counsel for the Applicant, it could be stipulated that because it follows so logically the higher density, the greater the impervious surface and the greater runoff you're going to have. So the question really that we are talking about is something cut in the side of the mountain such as in Hong Kong, and you're talking about gradual rolling areas such as Orgo Farms, and it's critical.

MR. FRIZELL: I think perhaps we ought to ask the General whether or not the

design of the project and storm water

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management system plant, isn't the key element there. He is a witness here. Is it a key element as opposed to trying to compare them simply on the basis of the density?

MR. MARKS: You keep wanting to compare storm water management system. We're not presenting the General here to discuss that at all. We are talking about the generation of pollution and the nature of the pollution which is generated from denser type of developments.

THE CHAIRMAN: I think the objection has some validity that the control is an important factor, but I also think it is quite important for us to know the degree of runoff because of the higher density. If you continue your line of questioning, then discuss the control, can it handle it, I think you have the problem licked.

MR. MARKS: I'd like the General to answer Mr. Frizell's question directly. THE CHAIRMAN: He will directly, and maybe we can overcome the objection and proceed.

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¹ BY MR. MARKS:

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2 A Yes, there are two entirely different elements and 3 either one could be controlling. One is the gross amount 4 of pollution generated from the housing, which involves 5 the immediate parking, its pets, its garbage cans and its 6 children. The other is what you are going to control it 7 with. The means of control as regards the first case, 8 there is no doubt that multi-family housing generates more 9 pollution. Not only because, as you say, generates more 10 runoff, but because that runoff has a high proportion of 11 automobiles, a higher proportion of pets, and a greater 12 concentration of garbage cans. These are evidenced in the 13 higher concentration of pollutants that we get from the 14 multi-family housing.

When you come down to compare the controls of the
two, the study that we made of the Twin Rivers project
didn't go to the amount of pollution that was retained in
those retention basins.

I am prepared to comment what is proposed here. I can compare the two if that is required.

> MR.FRIZELL: Let me ask you one other question. Mr. Marks, are you proposing that the Twin River study which I understand was a single project study, it was such a comprehensive project, one can

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draw a conclusion that that is some kind of standard that could be applied in all cases to projects of similar density. MR. MARKS: The answer to that is no, not to belabor your question. MR. FRIZELL: So what is the point of Twin Rivers? MR. MARKS: The point of Twin Rivers is that you have a denser type of development which is going to generate, and I will continue along this line of questioning, certain types of pollutants because admittedly, what I believe you're accepting is that multi-family housing produces greater runoff pollution. You want to discuss what type of pollution is generated and see if your studies in essence address each one of the pollutants that might be generated. We are talking about your particular study, and we are not talking about Twin Rivers. That is by way of introduction.

> THE CHAIRMAN: You can pursue it on that line on the basis of the Applicant study on the handling of runoff. You can

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PAGE Whipple - direct 20 1 proceed. 2 BY MR. MARKS: 3 Q General, presented by the Applicant in this 4 case was an environmental impact statement prepared by Mr. 5 Thomas Krakow, of the firm of Abbington Ney Associates. 6 Did I furnish you with a copy of that? 7 A Yes, you did. 8 Q Did you read it? 9 A Yes. 10 Now, contrasting that, there was some Q 11 engineering data that was submitted; was there not? 12 A Yes. 13 Q That engineering data was submitted by 14 Mr. James Kovacs, also of the same firm? 15 Å Yes, in the plans. 16 Q Okay. Holding that in abeyance for a 17 second, General, returning to Mr. Krakow's environmental 18 impact statement. Did Mr. Krakow not address or 19 recognize the problems involved in runoff pollution? 20 A Yes. 21 Q Did he discuss merely one element of that 22 meaning the BOD pollutants? 23 No, he discussed several of them. He discussed A 24 the BOD. He discussed soluble phosphates and one or two 25 others.

PAGE Whipple - direct 21 1 Did he discuss lead and other heavy metals? Q 2 No. 3 Q Did he discuss nutrients? 4 A Well, he did, because he discussed soluble 5 phosphates. 6 Q How about petro chemical hydro-carbons? 7 A He didn't. 8 Q How about chloroform bacteria? 9 A He did not. 10 Q The lead and other heavy metals, petro 11 chemicals and hydro-carbons and chloroform bacteria; 12 are these generated by developments of any type? 13 Yes, they are. They are the principal eivdences. A 14 They are the three of the four principal evidences which 15 form the pollutant characteristic of development in New 16 Jersey. The BOD is the one that is usually referred to 17 in the original standards of the State, but adually, the 18 most dangerous pollutant in urban runoff is probably 19 hydro-carbons. It is frequently lead and also you have 20 a very high bacterial contamination from all urban 21 runoff. 22 MR. LAPKIN: Could you tell us what 23 the sources of that lead pollution is? 24 THE WITNESS: We can't always 25 tell, but lots of it comes from the leaded

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1 gasoline. 2 MR. LARKIN: You mean from leakage 3 from the tank; is that what you imply? 4 THE WITNESS: It's mostly a bulls-5 eye that comes out of the exhaust. The lead 6 I think is blown out of the exhaust. 7 MR. LARKIN: You mean even with 8 the emission controls we have on cars today? 9 THE WITNESS: The new cars won't 10 have it, that's true. So we should have 11 a decreasing quantity of lead in the future. 12 That will be a very serious problem, and it 13 is a problem that will decrease in the 14 future and become much more important. There are other sources of lead. 18 Of course, the principal one is probably automobiles. BY MR. MARKS: ۵ How about petro chemical hydro-carbons?

They come mostly from automobiles and then, of Å course, there are commercial sources such as car wash establishments, garages, people who dispose and change their own oil and throw the oil in the garbage or down the manhole. That is, of course, a considerable source of them. The automobiles are a very considerable source of

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hydro-carbons, and, again, thrown up from the engine or else they leak down from the engine.

We have checked and we have done analyses of different hydro-carbons in urban runoff and found they resemble used crank case oil more than the oil or crude oil on any of the sources that we can identify. Apparently, the crank case oil of automobiles is apparently the principal source of hydro-carbons in urban runoff.

Q Do you have any opinion as to the amount that petro chemical hydro-carbon runoff pollution would be increased in terms of single family dwellings on this Orgo site versus what the proposed --

MR. FRIZELL: What is the basis for this question?

MR. MARKS: I believe there is basis. We have been discussing what type of materials emanate from this project, and we just got through a long dissertation on petro chemicals and hydro-carbons.

MR. FRIZELL: I don't doubt that. MR. MARKS: Let the General answer the question.

> MR. FRIZELL: Wait a minute. What I want to know is on what basis a discussion of the differences that is, I as<u>sum</u>

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that they are more. For instance, than the single dwelling Twin River study. For instance, I would assume to answer that question one would need a background of information upon which you could draw a reasonable conclusion that this is the case and true in all cases. That is, you also get this percentage of difference between single family residential development and residential development at five and a half or six per acre.

12 BY MR. MARKS:

Q General, do you feel you can answer that? Yes, I can answer the question.

There hasn't been too much data obtained on hydro-carbons in urban runoff. What there is available has mostly been obtained by me and my associates. We have found that the concentration in urban runoff varies from about one part million, which is single family housing, up to about five parts per multi-family housing, with commercial and some industrial facilities in them.

I have no hesitation at all as giving it my professional opinion based upon the evidence of the research I have done, along with my associates' concentrations of hydro-carbons and high density housing,

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will be materially greater than the concentration in the 2 low density housing. In addition, to the fact that you 3 have considerably more runoff to deal with. There is 4 no question in my mind at all that you have several times 5 the quantity of hydro-carbons comes from a given area 6 of multi-family housing, as against single family. More 7 than the proportionate to the number of housing units 8 involved. 9 MR. LARKIN: May I ask what

> relevance five parts per million is? How much is that in terms of one part per million, and what does that mean? Is five parts per million a lot?

THE WITNESS: Five parts per million is a lot.

MR. LARKIN: How about one part a million; is that a lot?

THE WITNESS: I can tell you one part per million is sufficient enough to kill -- not to kill, it doesn't kill it outright, but it is detrimental to the development of certain biological species. We have tested that and we have found that the pyster is adversely affected by one part per million, and we haven't tested

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out all the rest. Five parts per million is a lot of pollution.

If I could give it to you in pounds, as a matter of fact, I think I did in my testimony in the court case. I didn't come prepared with a quantitative estimate, but I could in a very few minutes.

The runoff capacity of say a hundred cubic feet per second, you would have to take five parts per million of that to indicate what that would be in pounds or per second, or for hour or whatever the thing lasted. It amounts to a great deal of pollution, yes.

THE CHAIRMAN: I think if Mr. Larkin will permit me, he is trying to find out if there is any safety standard. Is it three parts per mil or two parts per mil, and has one ever been established?

THE WITNESS: The State has set a standard for hydro-carbons. The State establishes the standards for lead in multifamily housing. As far as our experience, it exceeds that standard. As you find out, the lead is something that reduces. The

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hydro-carbons are a major menace here and there is no safety standard for hydrocarbons.

The only thing we can say is that areas that have a lot of hydro-carbons and a lot of development have extremely polluted conditions in them, and we have proof that the hydro-carbons are responsible and you can't prove the lead is responsible. That this pollution did come from the developments and it is sufficient to mess the streams up.

MR. LARKIN: Is this type of pollution coming regardless of the type of water management?

THE WITNESS: No, it is not regardless. The water management can reduce this pollution. That is the issue. I am now talking about what is generated within the development. What management can do to reduce the pollution.

THE CHAIRMAN: Mr. Marks.

BY MR. MARKS:

Q

Getting to the issue of water management.

Did the Applicant in their testimony attempt to

27

handle this screening process to settle out these
pollutants? Is that the theory of the environmental report?
A Yes, the environmental report speaks of best
management practices which, of course, is the term used
by the Environmental Protection Agency in the area of
planning.

7 Is that a definite term? Q 8 Well, it is a definite term. It has no legal 9 significance here. The best management practice is 10 simply a practice that has been adopted as the best for 11 that particular situation. There is legally no best 12 management practice in storm water management as far as 13 I know ind this part of New Jersey. There is certainly one 14 state-wide. I never heard of any being available here. 15

¹⁵ Q The Applicant's environmental study, that ¹⁶ sought to cleanse the storm waters of the pollutants, the ¹⁷ lead, and the other particulates?

18 A It didn't mention the lead.

25

Q We realize that's an omission in their study.
Let's say the BOD, phosphorous substances?

A Yes, there was an indication that detention can
 for a prelonged period of time remove the particulates.

23QIsn't that an area where the environmental24study differs from the actual engineering plans?

Yes, that is correct. There is a difference.

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	PAGE
- 1	Whipple - direct 29
	Q Now, let me ask you something general.
3	In order to effectuate this cleansing or purification
4	effect, do you not need retention facilities?
5	A Yes, you do.
. 6	Q Does the environmental report refer to
-	retention facilities?
7	A Yes, it does.
8	Q But the engineering report or the engineering
9 10	plans, per se?
10	A The engineering plans refer to detention basins
- 12	and the point of fact the outlets that are provided on these
	detention basins appear to be those normally for detention
14	basins and not to be those that are sufficiently confined
15	to provide the retention that they're talking about in
(16	the ERS.
17	Q General, did I give you a set of plans
18	submitted by the engineer to examine?
19	A Yes.
20	Q And, General, if counsel will assist me.
21	I don't know which one of Plaintiff's exhibit these are.
	These are the plans submitted by Mr. Kovacs.
23	MR. SAGOTSKY: Does it consist
	of 68 pages?
25	MR. MARKS: Yes, a total of 68
	pages, yes, sir.

	Whipple - direct 30
1	MR. SAGOTSKY: It was testified to
2	by Mr. Kovacs the other evening and it is
3	marked as A, whatever the mark is on the map.
4	BY MR. MARKS:
5	Q General, I wonder if you would step up to
6	the table and examine the plans from the point of where
7	the retention facilities were recommended by the
8	environmental report, but, in fact, the detention
9	facilities were implemented by the engineer.
10	MR. SAGOTSKY: Would you please
11	refer to the identificaton mark. It should
12	be on the first page.
13	MR.LARKIN: Mr. Marks, maybe
14	you can help me out. Would someone at least
15	define the difference between detention and
16	retention?
17	MR. MARKS: Certainly, I think
18	the General is best qualified to do that.
19	MR. WHIPPLE: Detention is the
20	term that has been used much more and
21	retention is specifically used for a
22	prolonged period, which is long enough to
23	allow the material to settle out or if it is
24	retained for some other period for a
25	recharge basin. So that the difference

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between detention and retention is one of timing. The detention is normally done formally for flood control only. Retention is a newer technique which can be done for other purposes, including allowing the sediment and pollutants to settle out. MR. MARKS: Does the retention facilities permit water to be held for a period of, let's say, eighteen to thirtysix hours or even longer? THE WITNESS: It's not essential they be a definite hour. THE CHAIRMAN: If you're answering Mr.Larkin's question, fine. If not, I'll entertain --MR. FRIZELL: That is fundamental to my question, I think. He is asking my question. Generally, is there a precise point of how long the water has to be held in order for any engineer or environmental consultant to characterize time . In the retention pond versus the detention? THE WITNESS: No, there is no specific time.

	Whipple - direct 32
1	Whipple - direct 32 MR. FRIZELL: Then can we
2	MR. MARKS: I would prefer this
3	be saved for cross-examination.
4	
5	MR. FRIZELL: Okay. We'll save it.
6	Thank you.
7	THE CHAIRMAN: Did you get your
8	question answered, Mr. Larkin?
9	MR. LARKIN: Yes.
10	BY MR. MARKS:
11	Q General, could you show us where the
12	detention basins are?
13	A The first three detention basins are shown on page
14	5. If I call them detention basins, they are detention
	ponds.
15	MR. SAGOTSKY: You are speaking
16	of what has been placed in for identification
17	without any reference to 1t.
18	MR. MARKS: This is page 2 of
19	68 of A37.
20	MR. SAGOTSKY: It has been
21	marked, but just refer to each page, please.
22	Refer to it by number, exhibit and page
23	so we can identify it first. It is A,
24	repeat, A what?
25	THE WITNESS: I don't know what

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如果,如果如果,不能有一种可能的。"他说:"你们,你们也能不是你,你是你<mark>你们就是是要要你的事实</mark>。"

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	Whipple - direct 33
1	the exhibit number is.
2	MR. SAGOTSKY: Would you look,
3	please?
4	BY MR. MARKS:
5	
6	Q It is A-37 and we are now looking at page 2.
7	A Page 2 is a pond that would probably be effective
8	for retention. It is a wet pond and although it has a
9	fairly large outlet which I can't find on the drawings,
10	but it is referred to being 18 inches. This particular
11	one B, would, in fact, be effective in the holding out
12	of the particulates.
	MR. LARKIN: You say this would
13	be effective for retention?
14	THE WITNESS: Would be effective.
15	MR. LARKIN: For retention?
16	MR. WHIPPLE: For retention.
17	BY MR. MARKS:
18	Q Are there not, in fact, two other ponds?
19	A I am just trying to find the right number.
20	The third one would act in the capacity, even with an
21	
22	outlet and even with an eighteen inch outlet, I can't
23	tell exactly, but it would be reasonably effective settling
24	out because of the fact that it is a wet pond. It has
25	a volume that is substantial.
	Q The other reference should be page 5 of 68.

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ļ	Whipple - direct PAGE 34
1.	Now, we are on page 8 of page 68.
2	MR. SAGOTSKY: You are still on
3	A-37?
4	THE WITNESS: Yes, we are still
5	on A-37.
6	This shows the detention pond C.
7	It has an outlet of 29 by 45
8	inches, which is a very large outlet, and
9	this pond, although it has a very small wet
10	basin pond, will not be effective in
11	retention.
12	MR. LARKIN: I'm sorry, maybe
13	you could stop again. I don't mean to keep
14	stopping you, but when you say a wet pond,
15	does that mean a pond where water would
16	normally be there all the time?
17	THE WITNESS: Yes.
18	MR. LARKIN: As opposed to when
19	it would be only wet when there is a storm?
20	THE WITNESS: That's right.
21	Now, when I say it would not
22	be suitable in retention, what I mean,
23	is this would not hold water long enough to
24	allow the pollutants to settle out in it.
25	That is my opinion based on the

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	research that I have done on the settle
	ability of pollutants which has not yet been
	published. I do have a report on it
	which I can put in evidence if anyone is
	interested in it.
	MR. LARKIN: Is that because
	of the size of the outlet?
	THE WITNESS: Yes, it is a
	pond, apparently, designed for flood control.
	I haven't checked its effectiveness for
	flood control. It has too large an outlet
	to retain the waters from the time it is
	required for the sediment of particulates.
	MR. BRENNAN: Could the problem
	be corrected by changing the size of the
	outlet or placing the outlet higher or
	building it up the bank?
	THE WITNESS: It would have to
	be redesigned whether it would have the
	capacity or not, I can't tell.
	MR. BRENNAN: If you redesigned
	it for detention purposes, could that
	create a problem for flood control
	purposes?
	THE WITNESS. If not properly

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PAGE 36 done, it could. MR. BRENNAN: So then the problem relative to pond C, I believe you said was solvable with redesigning techniques? THE WITNESS: Probably, yes. The detention pond, which is called detention pond A, is sheet 9 of 68. Again, it has an outlet that is 30 by 24 inches in diameter and it is far too large to be effective in settling out pollutants. MR. BRENNAN: The pond or the outlet? THE WITNESS: The outlet, because I didn't check the size of the ponds. I have to assume they are correct. So the conclusion I got is that the design of these ponds are not sufficient to settle out the particulates and do the job that is suggested in the Environmental Impact Statement, because they are not designed for that purpose. They are designed for conventional and for flood control and one of them ---MR. MARKS: Excuse me, Mr. Ney,

if you would like to have a discussion, just

	PAGE Whipple - direct 3
1	go over there because you are distracting
2	from the testimony.
3	Mr. Chairman, I would like my
4	witness to have the full cooperation of the
5	Board without any diversion.
6	THE CHAIRMAN: Mr. Frizell,
7	would you step back a little bit?
8	MR. SAGOTSKY: We can offer him
9	our private room.
10	THE CHAIRMAN: You can have the
11	office there if you like.
12	MR. FRIZELL: Did we distract
13	you, General?
14	THE WITNESS: Yes, I was
15	distracted.
16	MR. FRIZELL: I'm sorry.
17	THE WITNESS: The conclusions I
18	draw that three ponds are designed the way
19	a flood control detention pond would be
20	designed. I see no indication that they
21	were designed for the purposes of retaining
22	particulates. There are special ways of
23	designing which require a somewhat larger
24	basin and a completely different outlet
25	design and they were apparently not designed

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PAGE 38

	Whipple - direct 38
1	for that purpose.
2	One of them would serve for
3	detention and only because of the fact that
4	there is a pond there that would retain
5	particulates because of the volume of water.
6	Even though you do have a fairly large outlet,
7	of course, its outlet is not as great as
8	the other outlets.
9	THE CHAIRMAN: Would this
10	disturb your testimony too much if we at
11	this point you concluded and we resumed
12	our regular meeting, Mr. Marks?
13	MR. MARKS: I think I can finish
14	up in about five minutes, less than five.
15	THE CHAIRMAN: Let us try to do
16	it and we will postpone the regular meeting.
17	Do you feel you can do it?
18	MR. MARKS: Yes.
19	THE CHAIRMAN: We will reserve the
20	cross-examination for later. Is that all righ
21	with you, Mr. Frizell?
22	MR. FRIZELL: Yes, sir.
23	THE CHAIRMAN: I have a question
24	to ask, then perhaps the terminology,
25	
	General, should be on the latter two, not

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detention, but retention.

THE WITNESS: Well, I really don't care what the terminology is because lots of times I use the term detention basin myself. I call it a dual purpose detention basin. It is intended to retain the particulates. What is important is not the terminology, but it is the fact of whether these engineering plans will actually carry out the functions that would have to be carried out. That I am convinced they will not do.

THE CHAIRMAN: I agree with what you're saying if they're not carrying out the function that they were intended to do, they are not entitled to be called detention ponds. That's the point I was getting at.

THE WITNESS: I think that you are technically correct, in that you are correct in that.

Although I think there is a good deal of latitude that has to be given because they are terms that are not completely, very widely understood, and they are often misused.

THE CHAIRMAN: We will consider

page 39

		Whipple - direct 40
	1	that nebulous for the time being.
	2	BY MR. MARKS:
	3	Q Despite the terminology on B and A, I
	4	believe are the ponds in question, they would not act to
	5	settle out the pollutants; is that correct?
	6	
	7	•
	8	Q C and A, General?
	9	THE CHAIRMAN: I am a little bit
	10	caught up here. Are they pollutants or
	11	particulates or are they interchangeable?
	12	THE WITNESS: All pollutants
	13	settle out particulates. There are other
	14	pollutants that are soluble that are not
		settled out. Of course, some of the
	15	particulates are not pollutants.
ź	16	BY MR. MARKS:
·	17	Q General, are you aware of the location of the
	18	Orgo parcel and the Swimming River Reservoir and surroundin
	19	streams?
	20	A Yes.
	21	Q You have told us that higher density
	22	development generates greater runoff, and higher density
	23	generates greater quantities of pollutants, and that the
	24	environmental study submitted by the Applicant did not
	25	mention some of the pollutants. Do you have an opinion

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Whipple - direct

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as to whether the system as designed will prevent these pollutants from entering the streams, which I believe is Slope Brook, among others, and finally enter into the reservoir?

A No, they would not completely prevent these pollutants. They have some effect, but unquestionably there would be more pollutants, more hydro-carbons, and particularly, more lead and bacterial contamination generated and the provisions here would not be sufficient to prevent it.

You would have more pollution resulting from the multi-family housing that would go downstream from this development.

> MR. LARKIN: Even if pond C and A, if I am correct and they are the ones they are, the outlets were too big, or if they were redesigned and became closer to pond B, and if the other two ponds were redesigned and the outlets were made smaller and so forth, would you find your comments would be still the same?

THE WITNESS: The general comment would still be the same. Maximum you can expect from a retention condition, and you mind it is not precise at this stage of the

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game, because it. certainly hasn't been finished yet, but the maximum you can expect is somewhere around fifty to sixty per cent reduction in particulates from properly designed and functioning basins that are equipped for retention period. That is a 36 hour retention, which is what we have been specifying for basins of this type. If that were in effect, you could expect fifty to sixty per cent of the total amount of pollution. Even when you put that in, that would still leave a substantial increase in the net pollution remaining to be carried downstream because the increase would be much more than that. MR. LARKIN: You are saying even with a perfectly designed basin?

THE WITNESS: Yes.

MR. LARKIN: Your testimony that the two ponds at this point are not perfectly designed for that?

THE WITNESS: That is true, but the ratio would be less.

MR MARKS: I have no further

PAGE

	Whipple	PAGE 43
1		
2		questions, Mr. Chairman.
		MR. NIEMAN: I have just one
3		question.
4		THE CHAIRMAN: Surely, go ahead.
5		MR. NIEMAN: Assuming that this
6		
7		project is constructed, in terms of the
8	:	density as proposed, and assuming the types
		of pollutants which would normally be
9		characteristic to this type of development,
10		and assuming that the Applicant was to make
11		the revisions to these retention ponds as
12		
13		you have suggested or has been discussed;
14		do you have an opinion as to the degree of
		pollution which would result in the
15		surrounding waterways, and would you
16		characterize it as being minimal, significant
17		or highly dangerous or extreme?
18		THE WITNESS: Well, that requires -
19		
20		pardon me saying, that is a good question.
		I would say it would be significant.
21		MR. NIEMAN: And in terms of when
22	· · · ·	you say significant, can you translate to
23		someone like me who does not understand
24		engineering, or figures and percentage?
25		
		Would it be perhaps one per cent, or would

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it be fifty per cent over and above a traditional development, say, as presented and zoned two acres, or would it be really not that bad?

THE WITNESS: You have got to have some. You are going to have twice as much runoff.

> MR. NIEMAN: Over a traditional? THE WITNESS: Over a traditional

PAGE

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development. Probably, three times. I would say probably, two to three times as much runoff as a traditional development and you have to say that the increase in pollution is more than that. Somewhat more, I can't tell you. There are different pollutants, so you would probably get between three and four times the amount of gross pollutants, which will then be reduced, say, fifty per cent by retention basins. So you would probably end up somewhere close to twice as much remaining pollution in the streams coming from the multi-family development with the basins, as you would have from a single-family development without the basins.

1	Whipple				PAGE
1					-
2		· ·	•	And of the typ	
3		-	- 	cribed basical	
4		do they af	fect in terms	of the ecolog:	Lcal
5		system?			
6			THE WITNESS:	Hydro-carbon	s are
7		probably b	ad for all th	e living.	
			MR. NIEMAN:	How would it a	affect
8		us?			
9			THE WITNESS:	Let me expla:	in.
10		In the fir	st place, the	bacterial con	tamination,
11		which is v	ery high, and	l actually, the	
12		retention	basin is more	effective aga	inst
13			- •	, fifty or six	· .
14			÷.	obably knock o	4
15		-	-	contamination a	
16				ive against ba	
17		-		•	3621.7 4
18		on the lim	ited data the		
19			•	as not only aff	
20				; also in porti	
21		them that	are not sett]	led out, get do	wn into
22		a water su	pply treatmen	nt plant and th	ey get
23		chlorinate	d. Now, the	re is a certain	
24		amount of	hydro-carbon	that are solu	ble,
25		about ten	per cent, e	lght to ten per	cent
		are solubl	e and those a	soluble hydro-c	arbons
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when they get down and get chlorinated, the chemistry is very little known about this. We do know that some toxic carcinogenic compounds are formed by the chlorination of the hydro-carbons. So it is a dangerous thing to bring hydro-carbons into the well supply intake and it complicates the problem of treating so that it won't be there.

The lead, of course, is toxic in itself. The standards of the State of New Jarsey for streams are about one-twentieth of a five millionth led. Of course, at the present time you will get more than that, something of this sort. All, of course, would be reduced in the future.

There are other things that come down there. Copper, which is a good deal of soluble. Copper can be detrimental to fish and humans. Although, I don't think that's a terribly important thing here. I think enough of the copper would be reduced by that. The hydro-carbons and the bacteria probably are the greatest threat.

MR. NIEMAN: Would that threat as you described reasonably confront Colts Neck



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રુ 2 if those runoffs were to enter the reservoir and the water systems? THE WITNESS: Yes, I don't believe

there is any question there will be some degree of deterioration of the water quality downstream if you go to this development instead of single-family housing.

MR. NIEMAN: Slight, reasonable or significant?

THE WITNESS: Significant, like double.

THE CHAIRMAN: This special meeting will be in recess and will resume after the regular meeting and questions will be entertained for members of the Board and anyone from the audience. General Whipple will still be here testifying, in case you have any questions.

We will take a five minute recess and have the regular meeting of the Board of Adjustment.

(Whereupon, a brief recess was declared.)

(Whereupon, the special meeting of the Board of Adjustment reconvened.)



	1		PAGE
·	1	Whipple	48
	2		THE CHAIRMAN: We will resume
•			with the special meeting. We will now resume
	3		with General Whipple.
	4		You have no further questions, Mr.
	5		Marks?
	6		MR. MARKS: No.
	7		THE CHAIRMAN: Are there any questions
(8		from any members of the Board at this time
	9		before Mr. Frizell crosses?
	10		MR. LARKIN: I have a question.
	11 -		
	12		General, you mentioned soluble.
	13		I am not sure what you call particulates.
	14		In other words, there are certain forms of
	15		pollution that are soluble in the water
	16		as opposed to ones that would drain out and
· · · ·			remain in the retention or detention ponds.
	17		What happens to those soluble pollutants?
алан (т. 1997) Сайтан (т. 1997) Сайтан (т. 1997)	18		Do they enter the streams?
	19		THE WITNESS: They enter the
	20		stream, downstream, that's right.
	21		MR. LARKIN: They don't enter the
	22		underground water system? In other words,
	23		how do they get there if they re soluble
	24		from these ponds? Assuming they're doing
	25		their job either downstream or wherever else
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they may go.

THE WITNESS: Depends where the water goes. If there is percolation downward from the pond, of course, soluble constituants go with it. MR. LARKIN: Then would they enter

into possibly, one of these various reservoirs we've heard of underneath the ground and eventually could reach there?

THE WITNESS: It could reach the underground water; that's right. Most of it from storm water runs out of the reservoir that goes downstream.

MR. LARKIN: What percentage was soluble of the pollutants that you mentioned? You said eight to ten per cent.

THE WITNESS: Eight to ten per cent of the hydro-carbons in urban runoff are soluble. Phosphates is something around -and it's quite variable, it is somewhere from 40 to 50 per cent is soluble. Of course, that depends whether it is off the land, which is mostly insoluble or something related to sewerage, which always is entirely soluble. So that's quite variable. Copper

1	Whipple	PAGE 50
1	· · · · · · · · · · · · · · · · · · ·	is something like 40 per cent soluble.
2		The lead is something like less than 10 per
3		cent soluble.
4		MR. LARKIN: Let me ask a quick
5		question which I am not sure.
6	- -	Is there any other place that
7		the solubles can go either into the streams
8		and, therefore, the reservoirs are somewhere
9		else in the stream or to the underground?
10		THE WITNESS: Some of them can
11		evaporate. Some of them are organic.
12		Particularly, some of the light hydro-carbons
13		can evaporate.
14	ĩ	MR. LARKIN: I have just one
15		other question and that is in terms of these
16		ponds. What would be your opinion based
17		on, I'm assuming now, it's an assumption,
18		which I'll ask you, have you studied the
19		size of this complex and so forth in terms
20		of the amount of runoff and water runoff that
21		would be generated?
22		THE WITNESS: No, I did not check
23		that.
24		MR. LARKIN: So then you couldn't
25		
		possibly answer my question, thank you.

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	Whipple	PAGE 51
1		THE CHAIRMAN: Mr. Brennan.
2		MR. BRENNAN: General, is it a
3		fair statement to say that you and others
4		in your profession are of the opinion
5		all the things being equal, the greater
6		the density, the greater the water flow,
7		and the greater amount of pollutants would be
8		introduced into the ecological system, or
9		something?
10		THE WITNESS: Yes.
11		MR. BRENNAN: Is it also your
12		opinion that certain design techniques can
13		be employed which will minimize, not eliminate,
14		the increased problems created by water
15	· ·	flow and pollutants?
16		THE WITNESS: Yes.
17		MR. BRENNAN: Is it possible,
18		giving the state of the art, for you to
19		furnish us with some ratio that would
20		indicate the relative amounts of increased
21		water flow in pollution that would be caused
22		by a home on a two-acre lot, or let me
23		call a density, of .5 per acre, as opposed
24		tra density of 4 per acre or six per acre or
25		eighteen per acre?

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	Whipple	FAGE 52	ţ
1		THE WITNESS: Yes, I cannot give	
2	you ei	ghteen because my observations don't	
3	go up	that high, but up to ten or twelve	
4	per ac	re, yes. I have made estimates.	
5		MR. BRENNAN: Could you recall	
6	those	numbers for us?	
7		THE WITNESS: No, I can't recall.	
8	I have	testified to numbers like that based	
9	upon a	everal on all of the information	
10	availa	ble to me at that time, and I testified	•
11	to num	bers at the time with this same case.	
12	I don'	t have those numbers with me.	
13		MR. BRENNAN: Mr. Marks, can you	
14	arrang	e for us to receive those numbers	
15	as to	the relative increase of the	
16	portut	ants introduced into the systems based	
17	upon d	lifferent densities per acre?	
18		MR. MARKS: General, could you be	
19	good e	enough to work up a study?	
20		THE WITNESS: I have testified	
21	to 1t	before. It is in the testimony that	
22	you he	LVe.	
23		MR. BRENNAN: I seem to recall tha	t
24	16 W81	J.	
25		If we already have these facts	2
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developed, you can let the Board know where it was or if we don't have them, provide us with the information.

MR. FRIZELL: I'll show you my transcript.

MR. BRENNAN: General, one other question which you did not directly address in your testimony, but just to give you some background.

Witnesses for the Applicant as well as for the Planning Board in my mind agreed on one point, and that is there would be a deterioration in the traffic flow of the intersection of Route 34 and Route 537. The various witnesses disagreed

as to just how badly the flow of traffic would be at the intersection.

Is there any way that you could quantify the impact of air pollution coming from additional cueing at the intersection caused by the inability of traffic to proceed through an intersection but rather have to wait for a second cycle of the light?

THE WITNESS: I had no such

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information. I can't make that estimate.
MR. BRENNAN: Now, notwithstanding
the above, let's assume that the Court
in its wisdom has said that regardless of
the ravaging that may be inflicted on various
species of life in the Township of Colts

Neck, must be provided a wider variety of housing selection.

In your opinion, and again limiting yourself to your range of testimony which was water flow and pollutants; do you know of any other area in the Township in which the Township could meet the mandate of the Court (subject to appeal), that we could meet the mandate in offering a wider selection of housing in the Township; which would in necessity require increased density, giving the economics of the feasibility of home construction, but do it in that location where it would be less damaging to the overall ecological system than the Orgo Farms site?

Now, before you answer, let me apologize for asking a question that was as drawn out as that one. I would hate to go Whipple

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back and try and punctuate it.

MR. FRIZELL: I just want to know if General Whipple has enough information to answer the question in terms of the Township of Colts Neck?

MR. WHIPPLE: I can answer the question. The answer in regard to detail, of course, I'm not sufficiently familiar with Colts Neck to have no opinion at all on specific sites. I can only say that there would be obviously, an undesirable impact if the runoff would go into some other place than into the Swimming River Amervoir.

I understand there are streams that are available that do not flow into the Swimming River Reservoir or drinking water. Consequently, certain impacts could not exist for those streams.

MR. BRENNAN: I have no further questions.

MR. MARKS: Excuse me, Mr. Brennan, I would like to show General Whipple a portion of his testimony. I think he can answer the question that you

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	Whipple	PAGE 56
- 1 ¹		requested.
2		THE WITNESS: Yes, I do have a
3		table which I prepared at the time of that
4		testimony.
5		MR. SAGOTSKY: What page are you
6		referring to?
7		THE WITNESS: It was apparently
8		not introduced in testimony. I thought it
9		was. I do have this information. It is an
10		estimate of the total amounts of phosphorous,
11		lead and hydro-carbons from larger lots in
12		single-family housing, small lots, single-
13		family housing, and multi-family ten per acre
14		and commercial. Those have not been brought
15		up to date. They still represent some
16		experience in the last year or so that has
17		gone into that. This is still the best
18		estimate that I have of the figures that
19		you asked me for.
20		MR. BRENNAN: The first one was
21		single-family per one acre.
22		THE WITNESS: It is large lots,
23	·	single-family.
24		MR. BRENNAN: Define large lots.
25		THE WITNESS: Two or more acres.
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	Whipple 57
1	Small lots is single-family.
2	MR. SAGOTSKY: One acre, would
3	you say or pending sites?
4	THE WITNESS: The figures were
5	derived for approximately two acres, of course,
6	one acre would be somewhat different.
7	MR. SAGOTSKY: You left that
8	category and came to your next category from
9	a large lot to a small lot. Did you say a
10	small lot single-family?
11	THE WITNESS: One acre, approxi-
12	mately, a quarter acre.
13	MR. SAGOTSKY: Thank you.
14	THE WITNESS: In multiple family
15	it is ten development units per acre,
16	and the figures that were given were the BOD
17	were respectively eight, twenty-seven and
18	seventy-four. For phosphorous, six-tenths
19	of a pound, 1.9 pounds and 5 pounds, and
20	for lead, .14 pounds, .34 pounds and 1 pound,
. 21	and for hydro-carbons, it was 1.2, 11 and 33.
22	MR. BRENNAN: Then would it be
23	fair to say, using the proper designs and
24	techniques, just going back to your
25	multi-family of 10 units per acre, that with

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	Whipple	PAGE 58
1		proper detention and retention, you can cut
2		that 74 to roughly 37?
3		THE WITNESS: Yes, 11 would be
4		somewhat less. Fifty to 60 per cent I would
5		estimate. Now, that would vary for the
6		different pollutants. Some are more
7		effective than others. For example, copper
8		and zinc are less effective than hydro-carbons
9		and lead, and the BOD is the intermediate
10		because it is the same as for all pollutants.
11 -	· · · ·	MR. DAHLBOM: Could you define
12		BOD again?
13		THE WITNESS: Biochemical Oxygen
14		Demand. It is the measurement of organic
15		matter by degradable organic material in
16		there.
17		Now, these estimates, of course,
18		were based on what information I had at
19		that time. One of the basis for the estimate
20		was the Twin River project, but also the way
21	•	it was given to data from other states,
22		because the Twin River project is only one
23		project, and the data from other states
24		is considered considerably different.
25		I had to average them in making an estimate

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on all of these. The estimates were based on information from a variety of sources I was able to obtain at that time.

THE CHAIRMAN: Any other questions from members of the Board?

MR. DAHLBOM: All these figures for phosphorus, lead and hydro-carbons, are: they pounds?

THE WITNESS: Yes, they average over a year. They are pounds per square mile of the development, per day.

MR. NIEMAN: How many people get their drinking water from the reservoir? The total number of people; do you have any idea?

MR. SAGOTSKY: I have evidence of that.

THE WITNESS: Swimming River, I think there is a better witness than I to testify to that.

THE CHAIRMAN: There will be a witness later probably, to cover that.

MR. SAGOTSKY: If we can stipulate what he will be saying, we might take that into consideration later on.

	Whipple	PAGE 60
1		Would it be 250,0007
2		MR. MOSER: People.
3		MR. SAGOTSKY: Two hundred and
4		fifty thousand people subject to your checking
5		on it later. That comes from Mr. Moser.
6		We may stipulate that they serve
7		approximately 250,000 people.
8		THE CHAIRMAN: I think that
9		was brought out earlier in these hearings,
10		two fifty also.
11		MR. LARKIN: I have one question.
12		Do you have any experience in
13		terms of the retention or detention as ponds
14		in terms of the build-up that occurs over
15		a year, two years, three years? My question
16		really is how often do these in general,
17		not a specific year, but in general, what
18		type of dredging or removal is necessary?
19		THE WITNESS: There isn't enough
20		experience. They are just beginning to build
21		these things. There really isn't any experience
22		to answer that question. Although, you know
23		there will be some greater build-up than
24		there is in normal retention ponds. Most
25		people let them go for at least ten years
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	before doing anything about it, and they
	will require somewhat more maintenance than
	the Fetention pond and the detention pond.
	There is no question about it. I can't
	give you an estimate on how often it will have
	to be dredged out.
	THE CHAIRMAN: Who would exercise
	the dredging over these ponds, or if they
	had to be, and so forth?
	THE WITNESS: What is being done
	in Somerset County, the County takes
	responsibility for the maintenance of the
	larger ponds that are built.
·	THE CHAIRMAN: Do you know whether
	it is County land or private land?
	THE WITNESS: Private or
	otherwise. They take them all. If they
	approve the plans, they will take the
	responsibility for maintenance, and they are
	the only public body I know that does this.
	In other cases the municipality
	takes the lead in detention ponds in
	requiring them and they do not assume the
	maintenance. They require the maintenance
	to be done by the owner, they are beginning

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to require a Deed to be imposed that passes with the land an obligation that passes by Deed with the land, a recorded Deed. It requires the owner to be responsible and to contribute to the maintenance.

It leavessome homeowners' association that exercise the responsibility where the lots are sold. That is the best practice that is becoming customary in the areas that are requiring these ponds to be built.

MR. LARKIN: Could I ask Mr. Frizell a question? Does this apply in the plans to the homeowners and does this occur in the homeowners?

MR. FRIZELL: I'm not sure, Mr. Larkin. There would be no problem to putting it in. Yes, I can tell you that the Homeowners' Association does have the responsibility for maintenance of the pond. Whether or not I recall the specifics --

MR. LARKIN: I didn't see anything in there and that's why I asked.

MR. FRIZELL: You mean in terms

PAGE 62

Whipple

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specific requirements that they dredge it? MR. LARKIN: On the maintenance. MR. FRIZELL: Yes, maintenance. MR. LARKIN: I assume that the dredging -- although I am not sure it's specified in there.

MR. FRIZELL: That will be no problem. I am not aware of the standards. The maintenance requirements is there for homeowners, yes. That is part of the commentary which you heard from the General. If you look at the Homeowner's Association, I think it calls for a description which is not attached. That will have to be included in the pond.

MR. SAGOTSKY: It would call for every living existence of the pond instead of the ultimate ecological death of all ponds; is that putting it accurately? Every pond is supposed to suffer ecological death in time?

MR. WHIPPLE: If not maintained. MR. SAGOTSKY: If not maintained. Though the object of this sort of a restriction is to continue the everlasting

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PAGE

	Whipple	PAGE 64
1		life in effect.
2		THE WITNESS: That's true.
3		MR. TISCHENDORF: Generally, you
4		are aware the property fronts on 537; are
5		you familiar with that?
6		THE WITNESS: I know that it does,
7	an a	yes.
8		MR. TISCHENDORF: There are
9		houses across the street and I would say
10		some are a little bit lower than the topography
11	· ·	of the subject property.
12		Could you estimate, or would you
13		have an opinion as to whether any of this
14	. · ·	added pollution would be a threat to shallow
15		wells and let's take 35 feet as a definition
16		of a shallow well.
17		THE WITNESS: I haven't really
18		made any study of the soils or the ground
19		water. I would expect a great deal of this
20		would run off with the storm water, because
21		you have the large impervious surfaces and
22		a lot of the pollution occurs on the impervious
23		surfaces. I am not familiar with the
24		ground water having been polluted. I wouldn't
25		say it won't, because I don't know enough

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	Whipple 65
1	about it.
2	MR. TISCHENDORF: We have one or
3	two citizens who asked if I would ask about
4	that. The consequence of construction and
5	
6	I guess the consequences after that on
7	shallow wells.
8	That was the reason for my question.
9	THE WITNESS: I believe one of
10	the detention basins is quite close to 537.
	It might be that it would accumulate some
11	material that would get into the ground water,
12	but 35 feet is an awfully shallow well.
13	MR. TISCHENDORF: Thank you.
14	THE CHAIRMAN: Any other questions?
15	Mr. Frizell.
16	
17	CROSS-EXAMINATION BY MR. FRIZELL:
18	
19	Q General Whipple, if I wanted to determine,
20	for instance, what the effect on the reservoir would be
21	of a cup of a different pollutant if I dumped it into
22	a storm sewer at the Colts Neck Inn where we had supper,
23	if I were attempting to determine that, I would need a
24	lot of information; would I not?
	A A specific cup of pollutant?
25	Q Yes.

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ł	Whipple - cross 66
1	A Well, that would be an impossible task.
2	Q All right. If I increase the volume in any
	event, my question is, wouldn't you want to know, for
	instance, the size of the reservoir?
	A Of course.
	Q Wouldn't you want to know the size of the
	water shed which the reservoir serves?
	A To make a quantitive estimate, well, probably,
	because that would govern the amount of storm water
	coming in.
	Q Would you also want to know the
	characteristics of the streams through which the
	pollutants would have to flow in order to go to the
	reservoir?
	A That might have some effect.
	Q What about the distance between the point
	in which I put it in and the point it would be taken out?
	A It might have some effect, not much, I would think.
	Q But the size the reservoir, I take it,
	would be
	A The size of the reservoir and the amount of
	water coming in from various sources would, of course,
	be a primary consideration, I think.
	Q Now, besides detention and retention, what-
	ever the term, whatever terms you use here, what other

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1 practices would you recommend to be implemented in a
2 development of this type?

A There are a lot of things that can be done, but you get considerable restraint, for example, from a development it's very useful to use over land flow swales rather than curbs and gutters.

Anything else?
 A It's very useful if you can have down spouts running
 into the dry well. If you are really very concerned about
 the pollution, there are things that you can do. For

example, put in covered garages, rather than open parking,
which reduces the amount of hydro-carbons washed off.

If garbage is handled in covered entryways rather
than the cans being placed outside, that has an influence.
It has an influence, a considerable influence, you
prohibit pets and you don't have any dogs running around.

Q How about a pooper scooper law? A Of course that would be if you are going to have a pet, the pooper scooper law would be useful. Also, if you eliminate children that would help.

> (Laughter from the Board Members and audience.)

Q In the design of this project, I realize in looking at the plans you can't determine whether pets are prohibited or children are eliminated. In the

PAGE 67

design of the project I am sure you have noticed that the extensive use of the over land flow has been designed to swales as you have been referring to, and have referenced in terms of the road signs as opposed to curbs?

Yes, that's helpful.

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7 Q In the projects that were analyzed to support
8 your data about urban runoff, do I understand those
9 projects by and large were developed prior to your
10 research in urban runoff according to the standard
11 development practices?

A Yes, they were developed, yes.

Q So they had channelized the flow by and large
as opposed to swales?

A They had the curbs and gutters; that's right.

16 Q They did have a. for instance, particularly,
17 effective garbage maintenance program?

¹⁸ A Well, I don't know about the one in Virginia.
¹⁹ I think it did. I don't have complete information on it.
²⁰ It had a much lower amount of pollution. I suspect that
²¹ it had some of the features that I mentioned.

Q It was much lower than the Twin Rivers?
A I assumed this. It had a considerably lower
amount of pollutants.

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Lower than Twin Rivers?



PAGE 68

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1	Whipple - cross 69
1	A Yes.
2	Q If you averaged the two, it was lower than
3	the figures that you gave the Board a minute or two ago?
4	A I don't remember exactly where I got it. Now,
5	exactly where the figures were structured. I don't remember
6	how many different units I had. I know I had at least
7	those two.
8	Q Your research indicates, doesn't it,
9	General Whipple, that a two acre single-family lot
10	generates on a per unit basis, twice as much pollution
n	as a multi-family unit?
12	A Well, I can't say that I have obtained this
13	figure. I have assumed this.
14	Q You mean from other sources?
15	A I haven't researched this. No, I have assumed
16	this because I am sure it is only fair to assume,
17	that a single-family home ordinarily has a more active
18	surrounding than an apartment, and so I made those
19	assumptions.
20	Q The figures that you gave the Board would
21	demonstrate that by and large, except for hydro-carbons?
22	A There was an assumption made.
23	Q Do I understand the figure that you gave the
24	Board, were they assumptions?
25	A They were based on certain assumptions, yes, because

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I was taking a lot of data and I had to relate this data together and interpret it. One of the interpretations or assumptions that I made was that single-family homes were larger homes and they generated more pollution.

Q The basis of that assumption was that people that occupied these homes have more money, have more automobiles, more pets, buy more food and bring out more garbage and, et cetera?

Yes, the words sound rather familiar.

I thought they would, General. Q I am not sure they have more children.

Now, with two acre single-family homes, Q they have twice the pollutants as multi-family units, and then you take the multi-family units and reduce the pollution by --

As I understand it, and let me get a few of these 17 numbers. Certain pollutants such as phosphates, and I think, nitrates, could be reduced 90 per cent by using sheet flow over vegetation as opposed to using channelized flow; is that accurate?

Certain research, that can be done. Other people 22 since then have somewhat oministic figures.

23 What is your current analysis, because I Q 24 know those are the figures you used last year? Do you still 25 stand by the 90 per cent?

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A No, I don't stand by the 90 per cent because I
 recently had some figures that would cause me to modify
 that.

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To what?

5 A I can't five you the exact figure. I didn't 6 come here to give a completely new estimate of this 7 pollution. I gave you something that was the best 8 estimate at the time I gave it about two years ago.

9 A good many things have happened since that 10 time. If you need more information, I will do it all 11 over, and again, I will come to give answers, depending 12 on the amount of information.

You asked me about the 90 per cent. I can give you
some good research data backing up the 90 per cent, and
since then I have accumulated other research data that
indicates it might be somewhat lower than that. I haven't
had an occasion to decide and to take a stand on that
particular figure.

19 Q Whatever the figure is on those pollutants,
20 as I understand it, many other pollutants can be
21 reduced by and large somewhere between 50 and 60 per cent,
22 some higher, some lower, by the use of retention and
23 detention facilities?

A Yes, that's a fair estimate.

Q

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Now, your research in the detention, retention

PAGE Whipple - cross 72 1 field is relatively recent: is it not? 2 That's correct. 3 In fact it is probably, within the past Q 4 18 months, as I understand it? 5 Yes, that's about right. 6 In fact, that material hasn't even been Q 7 published? 8 That hasn't been published, but it's publicly 9 available. It's been published by the Institute. I have 10 a report on it. It hasn't been published because the 11 publication would take too long to get it out to the 12 printer. I de have research information on the sal-13 ability which can be produced, if necessary. 14 It is not the only information available because 15 there is nothing that has been published on this matter 16 except very, very fragmentary estimates over a period 17 of years. 18 Q As I understand it, it was this research 19 that you just recently did that led you to the conclusion 20 when you looked at the ponds A and C you came to a 21 conclusion they weren't holding water long enough? 22 Yes. 23 That was based on that research? 24 MR. SAGOTSKY: Thipty-six hours 25 you said would make a proper detention time

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PAGE 73

THE WITNESS: If you evacuate, yes, almost if you get it empty in 36 hours that would do.

Q Just to put this in proper framework, when Mr. Krakow referred to their facilities as having potential for settling out some of the pollutants, he obviously, he had to make that conclusion based on available data as opposed to what you made recently available?

A Yes.

10 Q So I take it then you really don't fault
11 him for that, but you would suggest a modification based
12 on your most recent research?

A This is based on my most recent research.
Also he might have taken cognizance of the DNR regulations,
which are very widely disseminated which have specified
design criteria for this and are being applied in four
counties. I think he might reasonably, have known about
those, even though he might not reasonably have known about
the research about them.

Q If I understand that, in other words, designers could have in your view used DNR standards for the detention ponds because he did testify he used them for swales. That the analyst, the environmental analyst, in reaching a conclusion that these ponds would have an effect to settle out pollutants, was using the

1 what data was available to him. 2 A I don't want to criticize anybody. I realize 3 it is a developing area. I'm merely testifying that it 4 wouldn't be effective the way it is today. 5 Q Would they have any effect at all? 6 Yes, they would have an effect. Pond B would be 7 reasonably effective. 8 ۵ I understand that. I'm talking about A and 9 C. 10 A They wouldn't that much. They would have some. 11 That's based on your most recent research? Q 12 A Yes, you get a certain amount of settlement in two 13 hours, and a certain amount in four hours, and then it 14 builds up. Of course, you have a part of the water 15 that runs off almost immediately. You have a large outlet 16 there and a lot of it comes in and goes out, and a good 17 deal more stays in for longer periods of time. Of 18 course, it stays more. 19 Q As I recall his report, he used the 20 terms detention and retention almost interchangeably 21 throughout the report. Sometimes he referred to them as 22 detention ponds, and on the plans they are all referred to 23 as detention ponds. In some places they are referred to

as retention ponds.

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I wonder if you find any evidence that the use of th

1 term retention, other than the fact you would not, 2 based on your research, characterize it as a retention 3 pond, and that the use of the term is improper in any way? 4 Well, technically speaking, they should be A 5 described as detention, if that's what they are. Retention 6 is a prolonged period of retaining water. It doesn't 7 really matter what you call them. What matters is whether 8 they work or not. 9 Q Now, you indicated that the middle pond 10 was wet. Are you saying that based on what you see, A and 11 C would not be wet ponds? One of them would have a 12 small wet pond in it. Which one, the one on the south 13 or the north? 14 A The one--15 MR. SAGOTSKY: Tell us which one? 16 MR.FRIZELL: A is north, C is 17 south. 18 MR. SAGOTSKY: Then B would be 19 the wet pond. 20 Yes, C is south 21 and A is north. 22 THE WITNESS: The one that 23 has the wet pond is the one that is 24 furthest from 535. 25 BY MR. FRIZELL:

PAGE Whipple - cross 76 1 Were you given an opportunity to review Q 2 the testimony of Mr. Kovacs, the engineer who designed 3 the facilities? 4 A Yes. 5 Q Do you recall Mr. Kovacs' testimony that 6 he said that these were preliminary designs and he hoped 7 that pond A, and that he expected that pond A, when 8 finally designed, would maintain four feet of water in 9 the pond at all times? 10 A No, I do not recall that. 11 Q You don't recall that testimony. 12 MR. MARKS: Excuse me, one second. 13 I don't believe I furnished you with Mr. 14 Kovacs' testimony. 15 MR. SAGOTSKY: The question says 16 four feet of water in what pond? 17 MR. FRIZELL: Pond A. That was 18 the pond where there was a discussion about 19 the fence around the pond. 20 THE WITNESS: I have Mr. Krakow's 21 testimony. 22 MR. FRIZELL: That is not the 23 testimony I'm referring to. I'm referring 24 to the engineers. 25 MR. SAGOTSKY: That was the 68

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page map you are talking about; aren't you, Mr. Frizell?

MR. FRIZELL: Well, Mr. Kovacs described what was on that 68 page map.

MR. SAGOTSKY: He went through page by page?

MR. FRIZELL: There was a discussion, if anybody is looking for the transcript about the fencing of that pond because he testified there is going to be water in it at all times.

I understand, General Whipple, you are disputing how big the outlet pipe is? If that is your objective, and you think that pipe is too big in order to maintain water in that pond?

THE WITNESS: Well, it is too big. If you want to have a pond that does not have a large permanent pool there. If you have a large permanent pool there, that is several times the volume of the small storm, it will absorb water from the small storm no matter how large. So if you have a large enough wet pool it will be effective. There is no large pool shown there

	Whipple - cross 78
1	Now, if you are going to change it and put
2	in a large pool to that extent, it will have
3	some effect. There is no question about it.
.4	BY MR. FRIZELL:
5	Q When you responded to Mr. Nieman's
6	question, he asked you about the relative impact of
7	these pollutants downstream, and you said, that you thought
8	it would be significant, at least twice?
9	A At least twice as much.
10	Q That is to say it is significant because it
\mathbf{n}	would be twice as much as if it were developed according
12	to the zoning ordinance of two acre lots; is that my
13	understanding?
14	MR. SAGOTSKY: He said it would
15	be as much as the runoff or even three times.
16	MR. FRIZELL: Well, let's let
17	General Whipple answer that. I recall his
18	testimony.
19	THE WITNESS: Yes, the runoff
20	I said would be two to three times.
21	The question, as I understand
22	you're asking, is the amount of
23	pollution that would be left after you
24	have an efficient system of retention basins?
25	Q Yes.

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1 A I said, that would be at least twice, twice as 2 much, and to be three if you have this one acre housing. 3 Q Or in this case, two acre housing? 4 A Or two acre, yes. 5 Q Now, when you refer to the two acre housing, 6 are you factoring in any pollution that is caused by 7 on-site septic systems? 8 I'm not considering anything. I was assuming that A 9 they would be entering into that realm. 10 Q On-site septic systems are potentially 11 dangerous sources of pollution to water supply; are 12 they not? 13 If they are improperly installed, yes. 14 Were you assuming that the one-acre housing Q 15 was all channelized, that is, all curbs? 16 A No, I must have when I gave that estimate. I didn't 17 qualify all of the ---18 I understood it to mean all the things Q 19 being equal, the density would change that result. That 20 is why I'm asking you the question. 21 A I thought I was giving you a conservative estimate. 22 I'm giving you at least that much. 23 You didn't assume any difference of any Q 24 increase in pollution from the large lot subdivision as a 25 result of the fact that one would be a channelized flow

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as opposed to utilizing an over land flow, vegetative swales, and detention facilities, and any other practices that could be utilized?

⁴ A Well, in my experience the curbs and gutters are
⁵ more apt to be used in multi-family housing than for
⁶ single-family housing. When you get to one acre large
⁷ lots, in most cases they did away with those.

8 Q I understand that. That may be the
9 general indication, general, but here in Colts Neck
10 it's precisely the opposite.

¹¹ Now, were you given a copy of the Colts Neck
 ¹² Township Zoning Development Regulation Ordinance to look at?
 ¹³ A Not at this time, I may have looked at it on
 ¹⁴ previous occasions, but not this time.

Q Do you have any knowledge of any requirements
 in the site design standards or subdivision standards on
 detention and retention facilities?

18 A No.

Q

Q All right. Does that mean you are aware they
have mone?

A I assumed they had none. I haven't heard about
them. Most communities that haven't been developed don't
have those standards, and I had the impression they
were not required yet.

25

Now, were you aware of what percentage of the

tract did you attempt to estimate, even roughly, what
percentage of that tract was draining into pond B as
you described it, the largest of the tracts, as opposed to
pond C?

PAGE

81

5 A No.

Q I take it, and it wouldn't surprise you to
7 learn, that a substantial portion of the tract there are
8 different sized ponds?

⁹ A It is the larger. The largest, no question about
¹⁰ that.

Q In a regional context, General Whipple,
can you put this principle of development in water sheds,
in a regional context in terms of the northeastern
New Jersey area?

Maybe I should be more specific. Do you know how
much of the northeastern New Jersey area is occupied by
reservoirs or reservoir feeder area intakes?

18 A Occupied by reservoirs and reservoir intakes?
19 Q Or reservoir feeder areas, yes.
20 A I don't know what you mean by reservoir feeder
21 areas.

Q Well, drainage into reservoirs.
A You mean water sheds that drain into reservoirs?
Q Yes, sir.
A great deal of northern New Jersey, I would say more

	Whipple - cross PAGE 82
1	than half of it serves water supply.
2	Q Can we mark this for identification? This
3	is a copy of the Regional Development Guide of the Tri-State
4	Planning Commission.
5	(Whereupon, a copy of the Regional
6	Development Guide of the Tri-State Planning
7	Commission is marked A-53 for identification.)
8	BY MR. FRIZELL:
9	Q General Whipple, referring to page 16, I
10	think simply confirms what you just said. They use the
11	term, "cathing area", and it is a map of the Tri-State
12	Region, which is northeastern New Jersey, including Monmouth
13	County, Middlesex County, Somerset County, Morris County,
14	Union County, Passaic County and Essex County.
15	I just wonder if you could confirm probably, more
16	than 50 per cent of those counties and most probably 90
17	per cent of undeveloped areas as shown on that document
18	are in reservoir catching areas.
19	A That's true in that general area, but that is
20	mark less of development and mark less amount of water
21	catching areas down in this particular vicinity.
22	Q You mean in the Monmouth County area?
23	A Yes.
24	Q Could you estimate the undeveloped
25	portion shown on the map of Monmouth County; is it something

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1 like forty or fifty per cent? I would guess sixty per cent
2 by the time you consider it?

It looks like roughly, half.

Q All right, now, General, do you know, or
have you made an analysis of what the volume of water was
in the Swimming River Reservoir?

A No.

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Q Have you made any analysis in giving all
9 of these practices that you have recommended to the
10 Board or to the Applicant, how in any kind of precise
11 terms, how much pollution would be generated by this
12 development if it is approved?

¹³ A Well, I have given data which can be readily
¹⁴ estimated. I can't make it off the top of my head.

Q You mean you'd have to use your standard
figures and have to start subtracting for the use of
different facilities; based on what different percentages?
A I would have to consider where this particular

tract stands with respect to its density, and other
features that develop with reference to other figures.
Then consider the area of it, the amount that is developed,
the amount that is undeveloped, and make an estimate.

Q You mean the amount of impervious surfaces? A No, the amount in question of housing against any amount to the conservation easement or anything of that sort

of open space.

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Q I take it you haven't done that? A No.

Q You haven't been asked to do that? A No.

Q Then although you may feel, based on your general knowledge in the area, that the difference between the proposed development and a two-acre lot development, would be significant.

Do I understand then you are not in a position to
 tell us because you don't know the size of the reservoir?
 You don't know the particulars of the development, and the
 nature of the impact on the reservoir itself?

¹⁴ A Well, I really am. I really do know that the
¹⁵ difference between the large lot development and this
¹⁶ development, in spite of all the measures that you have
¹⁷ taken, I said that it would result in more than twice
¹⁸ as much net pollution remaining in the streams.

19

I feel that is a conservative estimate.

Now, that I've had a chance to check these more
specific figures, I can see that it would be several times
more and really twice as much.

In the case of hydro-carbons particularly, if you
are interested, and even if you assume there is a 60 per
cent reduction on account of pollution, you will still have

¹ approximately ten times the hydro-carbons coming out of ² this development.

³ Q You are using data on a ten unit per acre
⁴ development; are you not?

⁵ A Yes.

⁶ Q So you have to reduce it by 40 per cent?
⁷ A This would be several times as much pollution
⁸ remaining even after the retention basins from the multi⁹ family development.

10 Q I understand that. I don't think you really
11 answered my question.

¹² My question was, given the actual project and
¹³ understanding you haven't analyzed actually the details of
¹⁴ the project, and you haven't been asked to, in fairness,
¹⁵ and given the fact you don't know the size of the
¹⁶ reservoir, and you don't know the characteristics
¹⁷ of the streams; would you indicate to us, where necessary,
¹⁸ in order to make a judgment ---

A I'm sorry. I didn't give you that information
for that purpose.

Q I'm not arguing --

A No, I didn't say --

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Q I'm not suggesting that you haven't said
there would be a difference between the two. What I want
to know is whether or not, since you said that you have

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PAGE 86

1	to	know	the	volume	of	the	reservoir	
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2 No, I said I had to give you the volume of the A 3 reservoir to know what the volume of the environmental 4 impact was. That's entirely different from knowing how 5 much pollution is generated.

6 I can tell you that several times more pollution 7 would come into the reservoirs, specific types. The thing 8 I have to know on the reservoir, simply, what the 9 environmental impact would be.

10 0 That's exactly my point. I don't want to 11 misconstrue your testimony. That's exactly what I meant 12 to suggest to you that the impact on the reservoir itself 13 would be twice as much pollution or whatever it is, could 14 have an impact on the reservoir itself is what you cannot 15 determine without more information.

16 A I haven't testified it is an impact on the 17 reservoir.

18 That's what I thought. Q 19 General, you have been described, maybe not 20 tonight, but elsewhere, as a pioneer in the 21 environmental field, and that your research, together 22 with a few other sources, are the only people doing 23 work in this field, and even what you are doing is 24 relatively recent; is that accurate? 25

I don't think that's quite accurate. There is a lot

of people working in the EPA which have a thirty million
dollar program testing out multi-purpose detention
basins and that has been going on for two years. It is
a big program and there are many, many people involved
in it. A tremendous amount of money has been spent on it.
A number of people at Washington levels become interested
in it.

8 I was a pioneer in the early days. Those early
9 days have passed.

10 Well, in terms of ongoing research in this Q 11 field of the impact of the urban runoff, we previously 12 had a witness testify, not here, but elsewhere, the 13 impact of those pollutants -- there still is a lot of 14 research to be done and there is a lot of information to 15 be obtained. Notwithstanding the fact, that you have 18 received some earlier conclusions based on your own 17 research; would you agree with that general statement?

¹⁸ A I certainly agree that the details as to the
¹⁹ effect do need a tremendous amount of research, and a lot
²⁰ of it is unknown. The only thing I do know, where you have
²¹ intense development, you have an extremely environmental
²² impact on the streams. The details why they are impacted
²³ and what is going to be the damage, there is a lot to be
²⁴ known.

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The areas that you are referring to, which is

¹ the Passaic River basin. For instance, Mr. Dahlbom asked ² you a question before about your data of pounds per square ³ mile. The data is gathered in that way and given, in which ⁴ anything submitted by your studies, necessarily, deals with ⁵ water sheds that are heavily urbanized?

⁶ A Not always. We take them from a number of different
⁷ water sheds. We do try to get water sheds that have
⁸ some specific land use. We have worked in the urbanizing
⁹ areas, that's true.

10 Q Well, when you said, "that's true", I'm not 11 sure what you meant?

¹² A Working in land and urbanizing areas we have data
 ¹³ from development areas for comparison.

14 Was that steady in an undeveloped area? Q 15 A No, that was developed. I have gone out and taken 16 water data from all isolated areas in northern New Jersey 17 to get my comparison to see what the background levels 18 of such things as lead are. It shows what nobody developed 19 at all. There are some pollutants even in the so-called 20 purest head walls in streams and they are material mounts 21 of all kinds of pollutants.

Q Is there any information that you can give
the Board about the potential pollutants from the horse
breeding industry?

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No, I haven't done any work in the horse breeding



industry. There are cattle feed lots, and the particular
 ones crowd a number of cattle in a confined space.
 They are notorious pollutants. I haven't any information
 or heard of any particular study.

PAGE 89

⁵ Q So that cattle feed lots in some
⁶ agricultural uses, there is some work in there in terms
⁷ of pollution?

8 A Yes, there has been very much study because
9 they are great sources of pollution. Chicken farms is
10 a great source of pollution. Duck farms are terrible.

11 Q Have you ever been on the property that
12 we are talking about in this project?

13 A No.

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Q Have you been asked to analyze the current
 pollution effect of the agricultural uses?

A No, I have not.

MR. FRIZELL: I have no further questions.

THE CHAIRMAN: Does anyone from the audience like to ask a question of General Whipple before we dismiss him? MR. RAWLEY: Around Colts Neck as we develop housing instead of farm land, people put in grass and many of the yards have green stripes of different colors where it Whipple

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tends to be fertilized and not fertilized. Fertilizer doesn't move that far to cover a mist. How does it get into the streams?

THE WITNESS: If fertilizer is put on in moderate amounts and in the right season of the year, very little can get into the streams. It shouldn't, anyway. The phosphates, particularly, and the fertilizer, unless they wash off before they soak in, they don't go into the streams at all unless the soil erodes.

Now, if you have an area in which you run fertilizer across the pavement, then it rains a lot, that goes straight into the streams. Once you get a combination of soil and phosphates, they will sink in, the phosphates go down in the soil in springtime when you get the very heavy rains, goes down into the ground water or leeches off.

Therefore, the nitrates, unless it is used up in the growing season, if you put too much of the phosphates on, generally some of it will run off. If you have good conservation practices, you will have very little phosphates.

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Whipple

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MR. RAWLEY: Many of the comments are applicable to farming also? THE WITNESS: They are indeed. THE CHAIRMAN: Yes, sir. MR. FRANTZ: My name is Bob

Frantz.

I have a question in regard to retention ponds. If they are constructed right and they do the job correctly and hold these pollutants so they settle out; I take it, where do they go from there? Did they go down in the water into our shallow wells?

THE WITNESS: They shouldn't to any extent. The particulate pollutants and those hydro-carbons are by degree. They are slowly, by degree. It takes weeks and months to do it. The lead and phosphates shouldn't remain there where they are. The retention ponds won't hold any of the nitrates and, therefore, won't stay in the ponds. The amount of sediment that settles out is such you don't think the sediment should be extremely detrimental. Although, if you have a heavy

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	Whipple	PAGE 92
1		development such as a multi-family housing
2		such as you have in Twin Rivers, the fish
3		in the Twin River pond, as in corresponding
4		developments, they are not dead. They are
5		not healthy either. The best development
6		is to dredge the pond and start over again.
7		A lot of this, obviously, accumulates the
8		problem.
9		MR. RAWLEY: I have a question that
10		reminds me of another one.
11		The question deals with the control
12		of salt from melting of ice, you know, in the
13		winter. What happens to that in a high
14		density development?
15		THE WITNESS: Well, of course,
16		you have to have snow put on the roads, whether
17		you have housing or not. I don't think the
18		runoff would be the same in detention ponds
19		to any extent. Of course, the wet ponds
20		can keep a certain amount, if the salt is
21		completely soluble won't settle out of the
22		pond, but it would go out in the water.
23		THE CHAIRMAN: Any other
24		questions?
25		MR. NIEMAN: Assuming the

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construction of the Colts Neck Village, with all of the adequate and assuming to be the necessary detention or retention basins, what would be the environmental impact upon the Swimming River Reservoir? MR. FRIZELL: Mr. Nieman, I don't doubt that the Professor might be able to analyze that, but I asked him a few minutes ago, General Whipple, you have not analyzed it or you have been asked to analyze it. MR. NIEMAN: I'm sorry. MR. WHIPPLE: I said only what I haven't said what can go down in there. the impact was. I haven't studied that, no. MR. MARKS: I would like to pick up on that question. There are two lines here, one is --MR. FRIZELL: Wait --MR. MARKS: Let me finish. THE CHAIRMAN: Before you finish, see if it is a valid objection.

> MR. FRIZELL: It is not an objection. Mr. Marks is about to engage in a speech. Let's proceed with Mr. Whipple's

PAGE

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		PAGE
	Whipple	9,4
1		testimony.
2		MR. SAGOTSKY: Mr. Frizell,
3	. •	please be a little more patient.
4		MR. FRIZELL: I shouldn't throw
5		rocks at glass houses.
6		THE CHAIRMAN: In your cross
7		tonight, I spotted a few speeches interjected
8		very neatly, but no one said anything.
9		Let's give Mr. Marks a short chance here.
10		MR. FRIZELL: I could sit here
11		and characterize any of the witness'
12		testimony for you. I thought we could do
13		that later or in writing.
14		THE CHAIRMAN: What is the thrust
15		of your statement?
16		MR. FRIZELL: Does he have a
17		question of General Whipple? I have
18		no objection if he's going to ask a question.
19		MR. MARKS: I would like to
20		question him. That is what Mr. Frizell would
21		like me to say. Fortunately, I didn't.
22		General, you testified
23		previously that even if these detention
24		facilities were properly designed, which
25		they are not, that I believe 50 per cent on

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	Whipple PAGE 95
1	the average of pollutants, would nevertheless
2	go into the reservoir.
3	THE WITNESS: Forty or fifty
4	per cent.
5	THE CHAIRMAN: Let's call that
6	a reiteration.
7	Any other questions?
8	General Whipple, thank you, very
9	much.
10	MR. PRIZELL: Can I ask one other
11	question?
12	THE CHAIRMAN: Yes, Mr. Frizell.
13	MR. FRIZELL: When Mr. Marks just
14	asked you that question about detention
15	ponds, as I understand your testimony, 50
16	to 60 per cent would be removed by detention
17	ponds themselves. There could be additional
18	removal of certain pollutants by virtue of
19	other design techniques such as swales and,
20	et cetera; is that accurate?
21	THE WITNESS: Detention ponds,
22	what I said, would remove generally the
23	different pollutants. About 50 to 60
24	per cent of the material is all that is
25	expected to be removed under detention.

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	Whipple	PAGE 96
1		That is what reaches them. Now, the swales
2		affect, of course, what reaches the
3		detention. It doesn't add to 50 or 60 per
4		cent. So, there is some effect of swales,
5		but the detention ponds reduction to 50 to
6	•	60 per cent, you are giving full credit
7		of the state of the art. That is the maximum
8		that you can expect.
9		I'm an optimist and protagonist
10		of these ponds. I usually tell people
11		fifty when they want to know.
12		THE CHAIRMAN: I have a question
13		in the back.
14		MR. HUBERG: If I understood
15		an earlier question to be answered that
16		the normal use of the soil, agricultural
17		or livestock could result in a leeching
18		level.
19		Is it possible and is it
20		possible to determine whether or not
21		additional leeching such as through a
22		retention pond would reach a critical level
23		that could affect the reservoir or a
24		shallow well?
25		THE CHAIRMAN: Do you care to

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tackle that one, General?

THE WITNESS: I don't believe I know enough about ground level in this area to be able to answer that question properly. The detention ponds have to retain material or else they wouldn't work. Exactly, how they would affect the ground water -- the soil must be impervious if you have 35 feet wells right around here. I haven't studied any. I really can't answer if that would affect it.

MR. HUBERG: Has it been discussed or has there been an attempt made to determine to what extent the soil is being used by the current topography functions and whether horse farms or agricultural -- in other words, is it possible that the addition of a retention pond can lead to a saturation condition as it would affect a shallow well?

THE WITNESS: It won't increase the amount of water available to ground water, that's true. Particularly, with the water being retained somewhat contributes to the ground water. I don't really expect

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that it would be harmful because the pollutants retained are all particulates and they should stay in the reservoir. I don't think anything that is

in the water, of course, will in effect get into the ground if it's soluble. Particulates, most of these that I'm talking, are particulates that should not get into the ground.

THE CHAIRMAN: Mr. Rawley.

MR. RAWLEY: That reminds me of a question I asked at an earlier meeting about the disposal of the dredging from these ponds.

MR. WHIPPLE: There would have to be a road.

MR. RAWLEY: Leading to it? THE WITNESS: Usually fill in some place since this is not an industrial facility. I do not expect the pollutant level to be enough of a problem. So, I think it could be put in a landfill without any problem.

> MR. RAWLEY: But not on topsoil. THE WITNESS: Well, you might be abl

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to use the topsoil. I try and experiment on it first. I'm not sure it wouldn't work.

THE CHAIRMAN: It would be obvious in that answer, Mr. Marks, you have not informed the General of the entire scope of the project since there was no industrial possibilities of the development. MR. MARKS: We haven't concentrated on that. We concentrated just on the drainage from the residential portion into the reservoir.

THE CHAIRMAN: You narrowed and confined yourself.

Any other questions? Thank you, General. MR. SAGOTSKY: Mr. Chairman, if you can give a break, possibly, to the gentleman who is representing the State Shorthand Reporting Service.

THE CHAIRMAN: We will take a five minute break right now to restore some subtleness to your fingers.

(Whereupon, a five minute

recess was declared.)



	Whipple	PAGE]
1		(Whereupon, the hearing
2		reconvened.)
3		THE CHAIRMAN: I think perhaps,
4		it should be on the record, as I don't
5		have it yet. It does involve the Planning
6	J	Board. The letter you did receive, a copy
7		of which I have not seen, but I had read
8		to me, perhaps contains some inaccuracies
9		and attributes something to the Planning
10		Board that is not true.
11		So, Mr. Marks, the attorney
12		for the Planning Board, would you like to
13		explain those inaccuracies and just
14		where the Planning Board stands on this
15		issue? I think that should be part of the
16		record.
17		MR. MARKS: I think some of the
18		conversation that transpired to this
19		going on the record was an inquiry by you,
20		Mr. Chairman, as to the swelling in the
21		size of the audience from its usual size.
22		THE CHAIRMAN: I did ask that
23		questin and wondered why we had so many
24		people.
25		MR. MARKS: There was a gentlem

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	Whipple	PAC	^{GE} 101
I		and I forgot your name?	
2		MR. SMERTZ: Smertz (phonetic)	
3	· · · · ·	MR. MARKS: Mr. Smertz, who	
4		responded to that and said he received a	
5		letter from Mr. Bonelli, which I thèn	
6		characterized as being complete with	
7		inaccuracies.	
8		First of all, the Planning	
9		Board does not accept the concept that the	lis
10		Applicant is proposing, approximately, a	
11		density of six units per acre. We will	
12		present later on our recommendations which	eh
13		will tell you why we think this entire	
14		project is not proper, and does not	
15		constitute special reasons and will adver	sely
16		affect the Township as a whole.	
17		The Applicant has drawn you ou	It
18		under somewhat false circumstances, and	to
19		that extent, you were brought out and for	r
20		that, I'm sorry. I have no control over	Lt.
21		That is the Applicant's fault. However,	
22		the Planning Board is here to evaluate	
23		this project, this alone and under this	
24		application and it has not rendered any	
25		opinion that this project be picked up as	nd
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	Whipple	PAGE 102
1		can't render that you use the plan
2		closer to wherever else presumably you live.
3		MR. SAGOTSKY: Lakeside Avenue
4		was mentioned.
5		MR. FRIZELL: Mrs. O'Connor, do
6		you have PB-8?
7		THE CHAIRMAN: I think we had
8		a question first for Mr. Marks.
9		A VOICE: Under Judge Lane's
10		mandate, I understand the Township is
n		mandated to come up with some new zoning.
12		The key question is to the Planning Board,
13		is this zoning being considered at our end
14		of the Township?
15		Is that one of the inaccuracies?
16		MR. MARKS: I can't answer that
17		because I'm not a party of record.
18		A VOICE: I'll direct it to Mr.
19		Schrumph or whoever.
20		MR. MARKS: He can't answer 1t
21		either because Mr. Schrumph is a member
22		of the Zoning Board. That matter is under
23		litigation and it involves the Township
24		Committee and this Applicant which sued.
25		I may point out that case is not concluded and

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the Township is still vigorously fighting that decision. Also, Judge Lane's decision, the way I have examined it, does not call for a project of this magnitude. It calls for, even if it is to be implemented, a project that would call for mixed residential type of housing, which is patio homes, townhouses and possibly apartments.

The Planning Board feels to a certain extent that these should disburse around the Township. There has been some inclination and some testimony very definitely, that the eastern edge of the Township might have a preference.

However, there is absolutely no recommendation by the Planning Board to take this project and plan it right in the opposite direction.

A VOICE: That wasn't my question at all. In other words, I've got an ordinance and you're not ready to say -- is any consideration to be given to low density or high density housing?

MR. MARKS: If the Court's decision is ultimately upheld by the

highest court in the State, obviously, we will, and I believe there is some consideration being given to that. I am not a part of that.

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MR. HERMAN: Just for the record on Mr. Marks last question so that you in the audience understand, when he said, if the highest court ultimately requires Colts Neck to resume, consideration will be given doesn't necessarily mean that it will be at your end of town or next to your tract or whatever else. You should understand this forum here is the Board of Adjustment and really has no part in recommending that any particular thing goes anywhere.

Their role is simply to re-evaluate the application that is before them.

The question I was going to ask Mr. Frizell is some of us haven't seen that letter and I wonder if you could make a copy available?

MR. FRIZELL: I don't know if I have it. I would like to have one minute, Mr. Schrumph, and I mean literally, one minute. The transcripts are available to you. I

suggest you read them and William Quill's (phonetic) testimony. He's the County Planner. He recommended that Judge Lane's Order be implemented at your end of town.

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This is PB-8. If anybody recognizes it, this is an exhibit prepared by Mr. Walker, also a Planning Board lay consultant who recommended that these projects were appropriate. You want to look at PB-8, I think this is 537 here, and I take it your subdivision is there.

A VOICE: It is somewhere here. So where are we?

THE CHAIRMAN: Welcome to the rest of the hearing tonight. We're glad to have you. I want tomake it clear that there is no consideration by this Board on this Application for anything in the eastern end of town whatsoever. We're considering the Orgo site and Applicant's Application. That's all.

MR. IARKIN: I think I want to make it clear. If there was going to be rezoning to take place, there would be hearings and so forth. There would be an

PAGE 106

opportunity, and I believe Mr. Marks, if that's correct, by the Township Committee, so at that point the public would have that opportunity. We have nothing to do with the procedures at all.

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MR. MARKS: I can tell you that the Planning Board is recommending that any project of this magnitude and size should certainly be the decision of the Township Committee. It is too large to come before this Board and must go through the normal legislative processes which involve your Township Committee, to which you all have an input. It is not up to the Planning Board. It is not up to the Zoning Board. It is ultimately, up to the Township Committee where you have an input.

What we do here has virtually, no effect. I would believe has no effect at all on anything that might be done in the future with that other suit.

MR. FRIZELL: I have one more point so you understand why Mr. Borelli's presence was necessary here.

Part of our own proofs is to

demonstrate that this site is suitable for this type of a development. Part of the defense by the Planning Board was, and still is, that there is another area of the community where this would be compatible to the existing use.

MR. MARKS: Why don't you mention the western end of the Township also? The Planning Board experts and also about the Monmouth County Director of Planning discuss the development on the eastern and western sections. So there is a twisting here of words and facts and thereby, it's your own judgment.

MR. FRIZELL: I'm not going to twist the eastern end. Time after time, after time, witnesses have come in here and said, and General Whipple said there is nothing that will go over in the reservoirs over in the eastern end of town, and that's what the question is about here.

MR. BRENNAN: Mr. Frizell, he didn't say that. I asked that question and his answer was, when I asked, would that be the best location, and his answer was yes.

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1	It would be better if it did not lead into
2	the reservoir.
3	MR. FRIZELL: I don't understand.
4	Therefore, a very large area land mass of
5	Colts Neck
6	THE CHAIRMAN: You are not going
7	to finish.
8	MR. FRIZELL: and the inquiry
9	is done further
10	THE CHAIRMAN: You are not
11	going to finish.
12	MR.FRIZELL: I want to.
13	THE CHAIRMAN: You are not going
14	to, Jim. This is a rather unrelated
15	situation. We are going to confine
16	ourselves to consider a certain project on
17	a certain tract. We will continue in that
18	vein.
19	If you have any facts in that
20	letter, Mr. Frizell, and I certainly
21	consider it a serious violation in the
22	cannon of ethics of sending it and not
23	notifying the Board.
24	Mr. Sagotsky, call the next
25	witness.

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1	MR. SAGOTSKY: Mr. Moser.
2	MR. FRIZELL: Mr. Schrumph, kindly
3	retract that statement. Any information
4	that I had anything to do with that
5	letter and what Mr. Bonelli does in favor
6	of his own project is his own business and
7	not mine and not yours. I will thank you
8	for your apology.
9	THE CHAIRMAN: I will retract
10	the statement if you disallow any part
11	of the letter.
12	MR. FRIZELL: It is not a
13	responsibility to disallow it, Mr. Schrumph,
14	you don't make unsolicited reckless statements
15	of that kind on the record.
16	THE CHAIRMAN: I never read the
17	letter.
18	
19	RICHARD MOSER, Sworn.
20	DIRECT EXAMINATION BY MR. SAGOTSKY:
21	Q Mr. Moser, by whom are you employed?
22	A American Water Works Service Company, Incorporated.
23	Q What is the relationship to the Twin River
24	Reservoir?
25	A American Water Works Service Company is a subsidiary

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PAGE 109

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Moser - direct

1 of the American Water Works Company, who is the parent 2 company of Fonmouth Consolidated Water Company. 3 And just the general consideration as to Q 4 your background. You have a degree; a college degree? 5 I have a Bachelor of Science in Chemistry, yes. A 6 Now, I want to show you A-54, and therein Q 7 is an exhibit entitled Colts Neck Township Planning Board, 8 which is the land use plan. I just want to show it 9 to you for the purpose of showing the location of the 10 Orgo Farms, which has been delineated in red by Mr. 11 Frizell as the location of that area. 12 I'mpointing to Mr. Frizell's handwriting on 13 Orgo Farms. You will note a portion of it is 14 south of Route 18. That's about 24 acres that has 15 been testified to, and it is in that location that the 16 water and sewer works will be located, if and when 17 approved, and can be taken up as ot its approval at 18 a later time, but now, that is the proposed project. 19 Now, in that area, without going into all 20 the details, at this point there is proposed 1,170 homes 21 or dwelling units. An approximate increase in 22 population of about 2,500 people. Now, it consists of 23 different types of units in that area. You are 24 acquainted with that area as shown to you on the map. 25 Yes, sir. A

Moser - direct

1QYou also are acquainted with the location2of the Swimming River area?

3 A Yes.

4 Q And you have had a chance to go over the
5 Swimming River area, and you have heard the testimony
6 this evening of General Whipple; is that correct?
7 A Yes, I have.

⁸ Q Without going into all the details at this
⁹ time because of the hour, I would ask you if you do
¹⁰ confirm what General Whipple has said with reference to
¹¹ the effect that this development will have upon the
¹² reservoir?

13 A I can summarize briefly our position.

14 I think the Board would like to hear that. Q 15 A With emphasis on brief, I presume General Whipple's 16 statements concerning the character of the wastes that 17 run off of a development such as this, have us as the 18 water pervayor concerned because we know that waste 19 characteristics in this reservoir, particularly a 20 reservoir, have adverse effects on the quality of water. 21 That is our prime surce of drinking water for the 22 250,000 people in this vicinity. We are concerned that

the water quality will degrade. We are certain that
degradation will be met with increased cost on our part
to make the water drinkable, and we are unsure as to

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Moser - direct

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1 exactly where the final water quality degradation will
2 fall.

So that is our concern with respect to the types of wastes that General Whipple has said will run off this type of development.

Q You couldn't confirm from your own experience, you couldn't confirm his opinion?

A Oh, yes.

MR. FRIZELL: Objection, I'm not sure what General Whipple's opinion was. He didn't say what the impact of the reservoir was. He didn't analyze it. I don't know what qpinion he's confirming.

MR. SAGOTSKY: He did say there would be a deteriorating effect upon the quality of the water in the reservoir. He specifically made that statement.

I believe it is to everyone's recollection, so we don't get into a hassle over that. It is my recollection what he said. I ask you, Mr. Moser, if that is your opinion?

> THE CHAIRMAN: We will uphold your objection if you narrow and confine them to General Whipple's testimony and

	Moser - direct PAGE 113
1	have it confirm that. Does that satisfy you?
2	MR. FRIZELL: I accept that.
3	BY MR. SAGOTSKY:
4	Q General Whipple alleged there will be a
5	deteriorating effect upon the water quality of the
6	reservoir by this development, Orgo Farms. My question
7	is, do you confirm that?
8	
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10	MR. SAGOTSKY: I have nothing
	further. I can develop the commercial
11	aspects, the industrial aspects and the
12	different types of units, and how much would
13	be devoted, approximately, to housing and
14	each type. I can go into all the background
15	for a more elaborate foundation, but because
16	of the hour and what has been said, I am
17	withholding that.
18	Now, I would say that at this
19	juncture of the case, I have nothing further
20	to ask Mr. Moser.
21	THE CHAIRMAN: Any member of the
22	Board have a question?
23	MR. BRENNAN: If you have increased
24	pollution being introduced into the reservoir
25	and dissipating the capability of the reservoir

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this could be cured by putting in additional equipment on it?

THE WITNESS: More than likely, it could, yes.

The problem that can occur when you have contaminants getting into a reservoir, which many times it is not a flowing stream. It is just like a stagnant pond. When you add nutrients into the pond it can promote biological activity and in part weird tastes and odors and this water makes it difficult to satisfy the customer's palate, as well as some of the other more subtle organic contaminants that everybody is concerned about.

MR. BRENNAN: If your costs increase, it would go into your rate basis and basically, what you're saying the people downstream will pay more for their water for the privilege of having the Colts Neck Village?

THE WITNESS: Every one of our customers pay for that cost, yes.

MR. FRIZELL: I'll object to this. There is nothing I am aware of in thi

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	Moser - direct PAGE 115
1	report in which Mr. Moser comes to any kind
2	of conclusion that a single piece of
3	equipment would be required; and I suggest
4	to you they are not correct.
5	MR. SAGOTSKY: Well, you know about
6	the carbon filler method facility it
7	takes to treat for pollutants. I know you
8	know all about that.
9	MR. FRIZELL: I know about that.
10	MR. SAGOTSKY: I haven't gone
11	into that with great specificity because
12	of the hour.
13	MR. FRIZELL: I understand,
14	Mr. Sagotsky.
15	THE CHAIRMAN: Mr. Moser, you
16	reconfirm the number of customers served by
17	Monmouth Consolidated Water?
18	THE WITNESS: Approximately,
19	250,000 people.
20	MR. LARKIN: Maybe you can clear
21	up some question that was raised earlier
22	in the testimony. I don't think you were
23	here.
24	As to the availability of
25	hook-ups for water customers at your facilities

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wherever they end, and I don't know exactly where they would end; how easy would it be to hook up additional customers to your existing network? THE WITNESS: I'm sorry. I can't. answer that question because I'm not familiar with the distribution system of Monmouth County. My expertise lies in water quality and water treatment, not in the other. MR. LARKIN: Okay. Thank you. THE CHAIRMAN: Are there any other questions? Is there anyone from the audience who would like to ask a question before Mr. Frizell cross-examines? MRS. THOMAS: My name is Barbara Thomas and I am from the Environmental Commission This project anticipates using quite a volume of water daily. I think the figure was something like 320,000 gallons per day. Does that involve the municipality's water coming into the reservoir? THE WITNESS: The reservoir is

fed by streams, rainfall and rumff. The Raritan is very deep and ground water sources

1	Moser - direct PAGE 117
1	have no relationship to the water system.
2	MRS. THOMAS: Would that have any
3	adverse effect?
4	THE WITNESS: No.
5	THE CHAIRMAN: Anyone else have
6	a question? Mr. Frizell.
7	
8	CROSS-EXAMINATION BY MR. FRIZELL:
9	Q Mr. Moser, how big is the reservoir?
10	A 2.622 billion gallons.
11	MR. LARKIN: Billion?
12	THE WITNESS: Billion.
13	BY MR. FRIZELL:
14	Q Do you know what that is in acre feet?
15	A No.
16	Q What is the size of the reservoir in
17	area?
18	A I think I have that number in my folder.
19	Q Also the water shed.
20	MR. SAGOTSKY: I think 12,000
21	acres, in that area.
22	THE WITNESS: I show the reservoir
23	as approximately 900 acres. The drainage
24	basin as approximately 48 1/2 square
25	miles.

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Moser - cross

1 BY MR. FRIZELL: 2 Q Did you calculate the percentage of the 3 water shed that this proposal occupies? 4 A No, I haven't. I'm sure we can come up with it. 5 Q Something less than one per cent? 6 A What's the total acreage? 7 Q The water shed, you said was 48 square miles. 8 This would be roughly 30,000 acres. 9 A (No response.) 10 Let me continue with the question. Q 11 It is a matter of mathematics. 12 Mr. Moser, is the water company concerned with the 13 suburbanization of Colts Neck with on-site septic systems? 14 As General Whipple pointed out, and I concur, A 15 septic systems are necessarily contributory to degradation 16 of a reservoir. 17 Q I understand that. 18 A It depends upon what is leeching or running directly 19 into the reservoir. 20 In your experience, did you have an occasion Q 21 to experience a chloroform count which you attributed 22 to the septic system immediately in the vicinity of the 23 reservoir? 24 I didn't attribute a chloroform count in A 25 increased use of the septic system surrounding the

Moser - cross

reservoir, but certainly an increased chloroform count
 would be of concern.

Q Has the water company observed an increase
in the chloroform count with the reservoir?
A I'm not sure. I know the trend of the chloroform
count per se. Let's see if I have a record of that here.
I don't know whether the chloroform count trends for an
increase.

9 Q You can concur, I take it also, with 10 General Whipple's testimony that the agricultural uses 11 are a significant source of pollution to ground water 12 Surfaces?

13 A I think potentially it's there, yes.

14 Q And that includes not only crop farming,
15 but also livestock farming?

16 A Yes.

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17 Q Have you attempted to analyze the effect 18 of the septic systems in the vicinity of the reservoir 19 or other reservoirs?

A I believe that is not relevant to this inquiry. THE CHAIRMAN: There are hundreds of septic systems and we heard the septics work. There is no problem.

It's important, and my only question is

MR. FRIZELL: I still object.

Moser -	cross
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PAGE 120

8 BY MR. FRIZELL:

9 Q Did you have any difficulty with the
10 assumptions made by General Whipple, that on a per
11 unit basis that large single family housing generates
12 twice as much pollution, not counting the septic
13 systems in urban runoff pollution as clustered or
14 multi-family type of developments?

A No, I yield to his expertise on that matter.

Q Have you made any attempt to discover what
the potential costs would be to your company in terms of
the additional equipment that Mr. Sagotsky referred to
and the carbon fillers?

A I entered into the record last year when we talked
about additional treatment facilities, that I indicated
that I could foresee the ultimate possible need for
carbon filler facilities to remove the organics that
lead to and cause the tastes or odors in water, or maybe a
possible health threat. At that time I estimated the



Moser - cross

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1 facility would be six and a half million dollars.

Q Now, you are not telling the Board and you can't state that this project does not require that kind of equipment; would it?

PAGE 121

5 A I cannot unequivocally say the effect, the term 6 pounds of those pollutants that General Whipple stated 7 would be coming from this would take the reservoir to a 8 point where we would have to put those facilities in.

9 Q Is the reservoir that close to that point; 10 at this point?

11 A No, the reservoir, I would classify it as
12 pristine..

Q Would you say the same thing about a single
14 family development on twice the acreage?

15 A Well, I understand it stands to reason if you
16 increase the amount of contaminants going into the
17 reservoir, it only promises the need for this type of
18 facility.

19 Q So if this project has approximately,
20 slightly more of whatever, twice the pollutants of
21 a single-family subdivision in the same tract, do I understand
22 then the same danger exists of this project is on 180
23 acres or 360 acres?

A There is a certain amount of natural --MR. MARKS: I object to that

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question. It is irrelevant.

MR. BRENNAN: I think you are working in ratios. I think you really ought to talk of 2,274 single-families on two acres.

MR. FRIZELL: His testimony was, as I recall, that this project, which is on 187 acres, would generate twice the pollution of a single-family development on the same acreage.

MR. BRENNAN: He said singlefamily, residential, would generate, excluding septics, twice as much pollution as one multi-family unit.

MR. FRIZELL: That's correct. It is also correct, as I understood his testimony, that this project -- and you will have to look at the record yourselves, but as I understood, this project would generate approximately, twice the pollution of a single project on the same tract, same size. That I think is his testimony. What I'm asking him is, is it the same danger as Mr. Moser is talking about presently, with the single-family subdivision

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with the same size.

MR. MARKS: Mr. Chairman, I would like the Board to rest on the record and move to the next question. MR. FRIZELL: I have no other questions. THE CHAIRMAN: Any other questions? Would anyone like to ask a question of Mr. Moser? Thank you, Mr. Moser.

MR. MOSER: Thank you.

THE CHAIRMAN: Mr. Frizell, you

have a couple of witnesses for tonight?

MR. FRIZELL: Yes, sir.

MR. SAGOTSKY: Gentlemen, you may move your case.

MR. MARKS: I have about five minutes of submissions.

Gentlemen, the Township has been kind enough to loan to me a sole copy that was received, I think on Monday or Tuesday of the revised draft of the New Jersey State Development Guide Plan.

I would like to have this marked and also I would like to ask it be reproduced

Moser -	cross
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	MOSEL - CLOSS	124
1		and that the original go back to the Township
2		Committee which I believe needs it
3		immediately.
4		MR. SAGOTSKY: It's Planning
5		Board PB
6		MR. MARKS: I think it is 11 or 12.
7		It was received by the Township, according
8		to my calculations, on August 15th.
9		MR. SAGOTSKY: May I borrow it
10		for marking?
11		MR. MARKS: Certainly.
12		MR. SAGOTSKY: State Development
13		Guide Plan Revised Draft, consisting of
14		179 pages, herein marked as PB-11.
15		(Whereupon, State Development
16		Guide Plan Revised Draft, consisting of 179
17		pages is received and marked PB-11 for
18		identification.)
19		MR. MARKS: Now, I would like to
20		move that into evidence, if there is no
21		objection.
22		MR. FRIZELL: I don't have any
23		objection.
24		MR. MARKS: It is a revised
25		draft.

PAGE 125

I would like to call the Board's attention to page 127 in which it has various development zones, and I point out to the Board that the largest white area, in fact, the sole white area, which is designated limited growth area, is only to be found in Colts Neck Township.

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I would like to point out on pages 71 through 72 of the State Development Guide, that the New Jersey Department of Community Affairs and the Division of Planning, stated that the limited growth to areas are areas of scattered low density development, because other portions of the State are more accessible to markets and population centers. This is one of their definitions. The guide further recommends --

objection to this? Mr. Kingman wrote a letter to the Director of State Planning and comments on the fact that Colts Neck is in the limited growth area largely, but not entirely. Therefore, the letter makes certain comments about it, and I think his comments are really the only ones that are pertinent.

MR. FRIZELL: May I interpose an



MR. SAGOTSKY: Let him put it in and after he's finished, and then you can put it in where you want.

PAGE 126

MR. FRIZELL: Let me go further, Mr. Sagotsky. You see, he put the document into evidence, and that's fine. I don't care. Any further than that, he can make part of his own. The documents are in evidence. He can read it at the time of argument.

Let's go forward. I have two witnesses.

MR. MARKS: I will continue.

The Development Guide recommends and determines that areas of limited growth, which is Colts Neck Township, the only one in Monmouth County, should be left, and this development, "To grow at their own moderate pace", because to do otherwise would require "major public investment in services and facilities and an energy inefficient pattern of scattering development would be continued."

The Guide further goes on to say that these areas of limited growth may become critically important resources for the

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New Jerseyans of the twenty-firse century.

So I submit that for

consideration by the Board.

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MR. FRIZELL: Since Mr. Marks was permitted to finish, rather than me saving it for summation, can I have one minute on that document?

Number one, Mr. Gindenberg clearly said our project does not require a public investment. Therefore, it is not in conflict with the plan.

Number two, there is extensive material that that plan that Mr. Marks did not read to you, what it says, is that that plan should not be used in terms of excusing or avoiding the constitutional responsibilities upon decisions. There is some exception to that rule, which are listed in the back of the document. They list certain townships, because they are so remote, entirely agricultural areas, that they could be excused. Colts Neck is not among them. MR. MARKS: I find Mr. Frizell's

comments to be in variance with what I have examined. I would like the Board to examine that for themselves.

THE CHAIRMAN: We do have that letter. We can consider it in conjunction with what you presented tonight.

MR. MARKS: Now, I would like to have marked into evidence, pages of the July, 1980 issue of the New Jersey Law Journal. May that be marked?

MR. SAGOTSKY: It is offered as PB-12.

MR. FRIZELL: You have got to be kidding. You are suggesting that is evidence? That is a law case.

MR. MARKS: That's right.

MR. FRIZELL: I thought cases were subject to attorney argument?

MR. MARKS: May I have it?

I think we have here a very serious issue. First of all, I move before this Board that the testimony of the Chief Planner and Designer of this project, Mr. Reinkamp, be stricken from consideration by this Board.

I want to submit this case because it buttresses and confirms my objection.

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This case says where someone comes before this Planning Board or before a Zoning Board or before any Board, and says they are a planner or a landscape architect, that their testimony is not worth any more credibility than is the Applicant's. They are not entitled to consideration of a professional licensed planner.

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MR. FRIZELL: That's absurd. I know the case very well. We will save it for argument because the whole thing is totally ridiculous.

THE CHAIRMAN: In your opinion, can this be entered into evidence?

MR. MARKS: I would submit that it really, as a matter of fact, goes to judicial notice and it is something the Board should read and make its decision.

Now, I would like a legal opinion on it and then give me a chance to study it myself and review it. I have come to a definite opinion, if no one objects, I could give it to you at the deliberation meeting, which will be August the 25th.

P125

1	THE CHAIRMAN: I think that would
2	be fair in view of Mr. Frizell's objection.
3	We do get a legal opinion on it and whether
4	it should be entered into evidence.
5	MR.MARKS: Mr. Frizell should
6	have a right to answer or make his statement
7	as to his determination.
8	MR. MARKS: In this State we have
9	a thing called a professional planning
10	license. The professional planning license
11	is required for anyone who prepares a
12	municipal master plan. That's the only thing
13	that it is required for.
14	MR. FRIZELL: Only for master
15	plan, you say?
16	MR. MARKS: To prepare a
17	Township Municipal Master Plan you have to
18	have a license.
19	The firm of Ron Saxwell Associates,
20	located in Denver, work across the country.
21	They have professional planner licenses
22	MR. FRIZELL: For your information,
23	and to tell you what the professional planning
24	license is like in New Jersey, anyone who
25	holds a professional engineering license,

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get a planning license automatically. Anyone who holds an architect license, gets a planning license automatically, even if he doesn't know anything about planning. Anyone who holds a surveyor's license can become a surveyor and obtain a surveying license and he doesn't need a degree. Surveyors don't have degrees. Anyone who holds that license, gets a planning license automatically and doesn't have to know anything about planning.

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Mr. Reinkamp testified in this case as a planner who designed this project as he has designed eighty others in New Jersey. He does not hold, as he indicated, a New Jersey professional planning license. He doesn't require a planning license in New Jersey. He is a designer of this project. If you read the case, the witness said he was a planner. Obviously, the problem with that is that he had no credentials of any kind, not from another State. There was no legitimate reason for him going around New Jersey commenting about master plans and testifying about master plans on the public

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record.

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The New Jersey Planning Association, Federation of Planners, took issue with that because he seemed to be misrepresenting himself to the Board. I suggest Mr. Reinkamp never misrepresented himself. He's a planner. He practices in 48 states, and he does this work on a day-to-day basis and he has several planners that work for him. They came in and testified, including Mr. Goodwin. Several of them came in and testified that worked for John Reinkamp. He designed the project, there is no requirement for Mr. Reinkamp to do what he did in this case. MR. MARKS: I would just like to

point out, this is the same argument advanced by Mr. Frizell prior to this decision, the decision says, however, Bradley, who is a landscape architect in that case. However, Bradley uses the term land planner and refers to himself as a land planner, and to identify and characterize his activities in his employ is a violation of a privilege.

I will further point out to you,

Mr. Chairman, that procedurally, this Board on May 29th, 1980, on pages 16 and 17, this attorney sitting right here, said he designed this project and said he will be testifying as a general planner and general designer.

MR. FRIZELL: That's right.. He presented himself to the Board as a practicing professional planner and that is the kind of professional planner that designs Master Plans in New Jersey and I disagree with the fact he lacked the required licenses.

Now, he misrepresented his position as a planner who prepares Master Plans in New Jersey, and, therefore, the Board of Professional Planning tookissue with that and said that he never misrepresented himself in any plan or BOD project.

I clearly suggest to you that 90 per cent of professional planners in the State are not capable or qualified to do the work.

MR. MARKS: Mr. Frizell, leave it to the Board's personal recommendations.

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	FAGE 134
1	THE CHAIRMAN: The Board will leave
2	it to the legal opinion of our attorney
3	who may want to research and study 1t.
4	MR. DAHLBOM: Has this been
5	entered for identification?
6	THE CHAIRMAN: I don't think we
7	should move it into evidence.
8	MR. FRIZELL: It is just not
9	evidence.
10	MR. DAHLBOM: It is for
11	identification?
13	MR. SAGOTSKY: I do think that the
14	Board should get the whole case and it should
15	be made available.
16	MR. MARKS: We will be glad to
17	furnish you a copy to the whole Board.
18	THE CHAIRMAN: I think we can
19	determine from the transcript in what
20	manner he represents himself right on the
21	outset.
22	MR. LARKIN: I don't think this
23	is relative or not, but I believe the only
24	thing is that a professional planner
25	prepares master plans with regard to the
	development of planning areas.

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1	MR. FRIZELL: The governmental
2	employees, Mr. Larkin, can't view that way.
3	MR. LARKIN: In other words,
4	somebody decided in governmental policy,
5	must have a license.
6	MR. FRIZELL: Mr. Larkin, I
7	said the case speaks for itself.
8	MR. MARKS: Don't misjudge,
9	Mr. Frizell.
10	MR. FRIZELL: Mr. Reinkamp has
11	testified as he indicated, in Superior Court
12	in the Bradley matter, and in Mount Laurel
13	and certain land cases.
14	MR. MARKS: But he's not licensed
15	in the State of New Jersey.
16	MR. FRIZELL: Not here.
17	MR. MARKS: He represents himself
18	as a planner.
19	THE CHAIRMAN: Let our attorney
20	decide that. One thing you did say, Mr.
21	Frizell, at one point in his testimony he
22	disavowed being a professional planner,
23	which you can extract from the testimony.
24	MR. FRIZELL: He said, he didn't
25	have a license.

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2	THE CHAIRMAN: Mr. Sagotsky,
3	you can research that case as to whether
4	it can be entered into evidence.
	MR. MARKS: I further want to
5	enter into evidence the report of the
6	Colts Neck Planning Board relative to the BUD
7	use variance of Orgo Farms and Greenhouses.
8	We will mark it into evidence.
9	MR. SAGOTSKY: PB-13.
10	
11	THE CHAIRMAN: PB-13 is in
12	abeyance and is for identification.
13	MR. SAGOTSKY: A report of the
14	Planning Board of the Board of Adjustment
15	is marked PB-13.
	(Whereupon, a report is received
16	and marked PB-13 for identification.)
17	MR. FRIZELL: Is the resolution
18	attached to this?
19	MR. MARKS: No, this report was
20	discussed on Monday night and approved by
21	
22	the Planning Board.
23	MR. FRIZELL: There is an
24	objection by the Applicant to the admission
25	of this report by the Planning Board.
	I have an objection.

THE CHAIRMAN: The ruling is that anything is to be researched by counsel to make a determination.

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Now, you have submitted something else?

MR. MARKS: For the very same objection he raised, I raise to this.

MR. SAGOTSKY: We have a scheduled meeting set for the consideration of deliberation on the 25th. That's next Monday night. Would you feel you need more time, and if I ask the Board between now and next Monday to give you whatever time you think you may need in view of your reading of that case.

MR. FRIZELL: Mr. Sagotsky, as you know, the hearing is to be closed tonight. I might say on all of our witnesses that we have brought into the Board, we were given an opportunity to rebut the evidence. Now, here it is 11:30 p.m. on the last night of the last hearing and we're being presented with this, fine. I object to it. I should have had this a long time ago. I finished my case almost a month ago. They had an

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MR. SAGOTSKY: I must call it to the Board's attention. The Planning Board under the ordinance and under the ruling, the report should be entered at the end of the case. There is no way that the Planning Board's report really could be presented. He entered it at the last minute because you haven't finished your testimony or will not finish your testimony until late tonight. This report is being submitted and marked for identification. It is the report of the ruling, and I say it can be presented.

The case says quite clearly, Mr. Frizell needs reasonable time, that is the case. I would ask the Board to give him a chance to review it. What it says in here is what Mr. Frizell already knows. He has heard all the testimony and there can be nothing in the report. It is just a review of the testimony as to what has taken place and it is evidently the conclusion.

I request the Board to accept this as a report, as a pure and simple report If Mr. Frizell would like time to answer it and review it, fine. I ask the Board to give him that permission.

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MR. HERMAN: My name is Jay Herman, attorney for the Board of Education. I feel compelled to participate here to a limited extent to assist the Board.

I think what Mr. Frizell has indicated about an extension of time beyond which time is imposed for the Board to act, tonight is not a deadline for the Board to act.

It is sometime after now. It is true, of course, that the Board had anticipated closing the hearings with regard to hearing evidence tonight. That is not at all what Mr. Frizell is making reference to.

So I think it is wholly inappropriate.

Secondly, I was here last week when both Mr. Marks and Mr. Frizell made their comments, and they each have written reports submitted this week. I may be wrong. I don't know if Mr. Frizell has furnished Mr. Marks a copy of his report. Secondly, I haven't received it.

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The only other thing I would like to add is that at the last meeting you will recall, Mr. Frizell came in with no advance notice to me, or I assume to anybody else, with three exhibits that we contested, and I don't remember accepting on any basis. Tonight he's submitted to me a new or different, if it is not proposed, an exhibit of about 16 pages. I think that for Mr. Frizell to get terribly upset with Mr. Marks' submission of the report tonight, in light of Mr. Sagotsky, offer affording him an opportunity to comment on it, I think by Monday, is not at all unreasonable. MR. MARKS: One second.

MR. FRIZELL: I would have no objection to it if Mr. Marks take the Planning Board's name off it and sign his own. What I have brought tonight is a summation. The Board is free to take my view of the evidence, and reject it or accept it. That is not quite true with the Planning Board's report. It is an evidential

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piece of material for which the Fogue (phonetic) case says I have a right to a notice of.

MR. MARKS: I'll offer it in both manners.

I'll offer it as a personal report by me. I will also offer as a summation by the Board of all the evidence it heard, plus a summation of the testimony of General Whipple, as I reported to them it would be presented tonight. If in this case there is any questions, the Board can consider it my summation. If I'm right, as I contend I am, it is the Planning Board submission.

THE CHAIRMAN: Is there anything in that report that will be new to Mr. Frizell?

MR. MARKS: Not a thing, not a thing.

THE CHAIRMAN: Is there evidential consideration?

MR. MARKS: Absolutely not. That's why I presented the State Guide¹ Plan and that's why I presented it in the

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THE CHAIRMAN: On the basis that you agreed to submit it as Marks rather than the Board.

MR. MARKS: No, if necessary. THE CHAIRMAN: If necessary, Mr. Frizell is going to deliver his in his name, we can rely on you to give a copy of that to Mr. Frizell and he can write in or offer any objection if he wants to enter it into evidence Monday night on that basis.

MR. MARKS: I will leave -how many copies do you need?

MR. TISCHENDORF: Mr. Marks, do you concur with the full Board concurring in this opinion?

MR. FRIZELL: On the evidential case an issue that was raised.

THE CHAIRMAN: You're asking the full Board of Adjustment? I will poll them and ask them if they agree with that decision.

MR. NIEMAN: The purpose of the summarization of the position of the Board

1 of Adjustment, I'm not going to be 2 concerned about anything that might be 3 introduced in terms of new evidence, and 4 allow you to get up here and tell me what 5 you would say. I'm going to read that 6 and I'm going to consider you as being the 7 first person present and telling me what 8 I'm reading. That's what I mean. 9 MR. MARKS: I have no problem 10 with that at all. 11 MR. HERMAN: You said the Board 12 of Adjustment. I think you meant the Planning 13 Board. 14 THE CHAIRMAN: I'll poll the 15 Board. 16 MR. SAGOTSKY: I want to call 17 your attention that there is an Order of 18 the Court that the time may be extended to September 18th or 19th, there is written 19 20 in that Order, provided the testimony is 21 completed by August the 20th. 22 MR. FRIZELL: I signed that. MR. SAGOTSKY: You did? You put 23 24 those little words in. 25 MR. FRIZELL: Yes, I did.

Public evidential hearings. This is as I construe it and intend to be evidence as opposed to argument. I object to it on that basis.

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MR. SAGOTSKY: Therefore, I'm calling to the Board's attention in view of that limitation, that the ruling that you're making, that it be put into evidence as of tonight. The proposition I made to Mr. Frizell, is that he may answer it, if he likes, by the 25th, and, of course, I'll also endorse the position that Mr. Herman took that we do have until September. Under the words of the Ordinance and under the words of the Court Order, I ask you to act upon it tonight subject to that condition.

MR. DAHLBOM: I hope it is August 21. I'm not certain.

THE CHAIRMAN: We will accept it on the basis of the advice of counsel. How does the Board feel accepting it tonight? I think we will do it in that manner.

MR. TISCHENDORF: I would remind counsel we are not bound by the strict rules of evidence. Does that give us any

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1	latitude here under your interpretation?
2	MR. FRIZELL: My interpretation,
3	Mr. Tischendorf, is the interpretation of
4	the Supreme Court, notwithstanding the fact
5	the same rules apply in the Board's favor.
6	MR. SAGOTSKY: Mr. Frizell is
7	making an issue out of it. The Court will
8	look at it as what harm is done. Everything
. 9	in here Mr. Frizell knows. He remembers
10	very well. I think the Court will look
11	at it in that respect.
12	MR. FRIZELL: How do you know that?
13	MR. MARKS: I also don't know.
14	The 1977 case Mr. Frizell referred
15	to does not refer to the prior Municipal
16	Plan Act. I had not an opportunity to study
17	that case.
18	MR. SAGOTSKY: That was before
19	the Land Use Act?
20	MR. MARKS: I just noted the
21	decision in the case. Absolutely, Mr.
22	Sagotsky. I don't think it's pertinent
23	to the whole issue.
24	MR. SAGOTSKY: You are applying
25	it to the Land Use Act even though it predates

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	PAGE 146
1	the Land Use Act; aren't you?
2	MR. FRIZELL: The case is
3	directly on point, period.
4	MR. SAGOTSKY: You chose to come
5	in tonight to pull it out of the hat.
6	MR. FRIZELL: I didn't know what
7	was going to happen. It is now ten minutes to
8	twelve. I didn't see this until Mr. Marks
9	pulled it out of the box a few minutes ago.
10	THE CHAIRMAN: Anything else to
11 .	offer, Mr. Marks?
12	MR. FRIZELL: I might say,
13	Mr. Sagotsky, in addition to that, we have
14	checked with the Planning Board. We called
15	and they said nothing on the agenda for this
16	or Orgo Farms at all. We would have been
17	there.
18	MR. MARKS: An open meeting
19	conducted on the record?
20	MR. FRIZELL: Without notice.
21	MR. MARKS: You had your
22	notice last week.
23	MR. SAGOTSKY: Well, I guess
24	repetition proves it.
25	THE CHAIRMAN: Anything else to

1	PAGE 147
1	offer, Mr. Marks?
2	MR. MARKS: No, in any event,
3	I'll offer it in the alternative as my
4	summation.
5	THE CHAIRMAN: I might ask, did
6	the Planning Board have an offer as to the
7	number of units?
8	MR. MARKS: Yes, I believe we
9	had a letter. The Board requested that
10	if it was available. Yes, research was done
11	by Mr. Festler (phonetic) who is on vacation.
12	I think you have a copy of that.
13	Is there anything in that report
14	that will be new?
15	MR. FRIZELL: Not a thing,
16	not a thing.
17	THE CHAIRMAN: Is there several
18	considerations?
19	MR. MARKS: Absolutely not.
20	THE CHAIRMAN: On the basis that
21	you agree to submit it as marked.
22	MR. MARKS: If necessary.
23	THE CHAIRMAN: If necessary,
24	since Mr. Frizell is going to deliver his
25	in his name, we would like to give a copy

of that to Mr. Frizell and he can offer any objection and it can be entered into evidence Monday night on that basis. MR. MARKS: I will agree. MR. SAGOTSKY: I want to call your attention that there is an Order of the Court the time may be extended to September 18th, I think, or 19th, and that is written for that purpose providing the testimony is completed by August the 21st. (Whereupon, there is a discussion off the record.) (Back on the record.) THE CHAIRMAN: Anything else to offer, Mr. Marks? MR. MARKS: No, as I said, in any event, I will offer it in my summation. THE CHAIRMAN: I might ask, indeed, if this Planning Board had an offer in the last two and a half years of the number of units. MR. MARKS: Yes, I believe we have a letter. Yes, research was done by Mr. Festler (phonetic), who is on vacation. I think you have a copy of that. The letter

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	PAGE 149
1	regarding the number of subdivisions.
2	MRS. O'CONNOR: Would you like me
3	to get a copy?
4	THE CHAIRMAN: Mrs. O'Connor 1s
5	running the copy machine and I think it is
6	best the you proceed with your witness.
7	MR. FRIZELL: Mr. Gerkin.
8	
9	GLENN GERKIN Sworn.
10	DIRECT EXAMINATION BY MR. FRIZELL:
11	Q Mr. Gerkin, when you designed that
12	subdivision of Orgo Farms, did you use any topographic
13	data or soil data in laying out lots?
14	A Yes, we did. The topographic data was interpreted
15	from the U.S. Coastal Geographic Quadrangle Sheet and
16	Soil Information and what was available from the County
17	maps.
18	Q As well as those maps in areas that have
19	water tables very close to the surface; isn't that
20	accurate?
21	A Soil maps indicate there was one spot towards the
22	rear of the property which I believe it's a coalman
23	soil, which has a high ground water table.
24	Q In order to install sewers on those
25	lots, some degree of fill might be required; isn't

Gerkin - direct

1 that true?

2 A Possibly.

Q Now, did you attempt to determine how many
lots you could put on that site if you avoid those sites,
that have high water sites completely?

A I think the County Soil Map can only be used as a
guide. It differs and indicates at such places out there
that has a high ground water table. You cannot take
that as verbatim at that particular spot as shown there
because the maps were inadequate at that time.

There are other ways. When you get to a more complete design stage, you do on-lot soil borings, percolation tests even when you do more preliminary tests on a larger scale, you can locate that area and if any redesign was necessary, there is ample room to redesign that end section of the road to avoid that.

17 Mr. Gerkin, giving the experience you have Q 18 had with other subdivisions here in Colts Neck, is it possible that either several lots would have to be 19 20 filled in order to install a septic system and avoid these areas, and, therefore, reduce the number of lots? 21 22 I didn't say that. I said I could redesign it and make the road a different road to be more suitable 23 land. 24

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I didn't suggest you said it previously.



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Gerkin - direct

I'm asking you to do, Mr. Gerkin, since you haven't 1 redesigned it, and if you did, you might find that there 2 3 was a high water table, and nevertheless, in areas that you could either not avoid or you would have to fill 4 5. those lots or avoid them completely alluding the total number? 6 7 That may be the case. It may not be. A 8 Q I recognize that. 9 Without more data, it would be impossible to even determine. 10 11 Q I recognize that. Now, you are aware, for instance, of the 12 13 subdivision here in Colts Neck that as many as one-third of the lots are located in high water tables; aren't you? 14 15 I know only cases. They were certainly considering -you can't get an estimate number of lots out of the parts 16 you would like to get as a developer. 17 When you estimated the development cost 18 Q of that project, what did you use for engineering on a per 19 unit, per lot basis? What numbers; do you recall, or 20 didn't you do that at all? 21 I didn't do that at all. 22 You were not the source of that information? Q 23 No, I was not. 24 Now, on the improvement cost estimate; do you 9 25

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Gerkin - direct

1 have it there?

² A Yes, I do.

3 Q What do you say, or what figure did you use 4 for bituminous stabilized base on a per unit basis? 5 Bituminous stabilized base was \$26 a ton. A 6 Q Is that the number you are actually now 7 using in Colts Neck. Township for improvement estimates 8 or on other projects? 9 A It varies on a site by site basis. It would be 10 12,520 tons, which is an extremely large quantity. And 11 the prices vary in quantity in what you would get. 12 Also, when you do estimates for the Planning Board, 13 our purpose for that is for bonding purposes. So if the 14 Town forecloses on the bond, the Town has ample funds. 15 If the Town then puts out that work, they have to comply 16 with the prevailing wage act, which has whole different 17 scales of prices. 18 The developer on his own does not have to pay 19 scale prices. So the price is not too far from there. 20 On a bituminous concrete surface course, Q 21 the next number you use is \$28; is that your experience? 22 I can show you jobs where it is cheaper than that. A 23 They are paying the prevailing rate and paying for their 24 bonds and, et cetera.

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Q

Is that what you're using now in Colts Neck?

Gerkin	- direct PAG	ε 153
. A	I don't know.	
	Q All right. In terms of bituminous	
stabili	Lzed base, is that below that; \$26?	
A	Right, well, this is the price that we can get	
the wor	rk done for; correct.	
	Q And \$28 is for bituminous concrete, two	
Inches	thick?	
A	Correct, on the basis we have taken public builds	lng s ,
which d	come in cheaper than that.	
	Q Mr. Gerkin, did you make an attempt to	
stimat	te what the average improvement cost estimate, the	at
you hay	ve used in preparing the improvement cost estimat	te
for the	e Township on the subdivision within the Township	>
in the	last few years?	
A	Could you repeat that?	
	Q When you prepared this estimate, did you	
attemp	t to use, or attempt to refer, what according	to
Townsh:	ip standards, did you attempt to refer to your	
own imj	provement cost estimate on a per lot basis so as	to
compar	e it to what you came up with in this case?	
A	No, I didn't. I wasn't asked to compare it on	
a per	lot, and you're talking about if it came to be	
five t	housand or ten thousand, or twenty thousand on a	lot.
No, I	didn't compare it.	
	Q Do you know what you came up on a per lo	t on

	Gerkin - direct	PAGE	154
1	this?		
2	A No, I don't know. I didn't even compute it.		
3	Q All right.		
4	Do you have any idea in your mind what an aver	age	
5	in Colts Neck is today?		
6	A It is \$882,000. I forgot what the total was.		
7	eighty-three lots roughly, you are talking \$10,000 a	lot.	
8	Approximately, I would assume.		
9	Q Is that your experience that what you		
10	estimated yourself in Colts Neck Township or current		
11	subdivisions in the Township?		
12	A We don't really get involved with it on a per	lot	
13	basis. Every site may have different factors invol	ved	
14	with it. There are several variables.		
15 16	MR. SAGOTSKY: At this poin	. t	
17	I would like to make a comment. It mig	ht be	
18	an objection. If I'm on the wrong way	e	
19	length, please tell me.		
20	It seems to me that there		
21	was testimony that estimate developmen	lt	
22	costs would be \$40,000 on an average.		
23	Now, this \$10,000 a lot,		
24	which is being talked about now, do I		
25	understand that is with reference to	91.4	
	generally in Colts Neck, or are you ta		B

	Gerkin - direct PAGE 155
1	about lots in the particular area of the
2	Orgo tract?
3	MR. FRIZELL: No, Mr. Sagotsky,
4	what this is is Mr. Walker used these cost
5	estimates to project out the feasibility of
6	the development under present zoning.
7	
8	MR. SAGOTSKY: He called for a
9	40,000 general average.
10	MR. FRIZELL: He based his
11	economic analysis on the improvement costs.
12	They are one of the factors. We are simply
13	inquiring about that.
14	MR. GERKIN: If I may interject
15	one thought, too.
	When you use your computations,
16	and I remember when you asked me my prices
17	in the bituminous concrete which, if I
18	looked at the prices which you are mentioning
19	for his computations on other items such as
20	curbing and piping, you'll find his
21	prices substantially less than I used here.
22	MR. FRIZELL: Well, what you're
23	talking about, Mr. Gerkin, is development
24	under the SOD standards.
25	THE WITNESS: Right

	Gerkin - direct PAGE 156
1	MR. FRIZELL: That may or may not
2	be the same standards. These are vegetative
3	swales and curbs and they might not be
4	street curbs.
5	THE WITNESS: I see.
6	BY MR. FRIZELL:
7	Q So, as I understand, then, you didn't
8	make an attempt to determine whether the \$10,000, or
9	whatever, close to that per lot, was below, high, or
10	near the average?
11	A I made no attempt at all. I was not requested to.
12	Q Who requested you to prepare this
13	analysis in the first place?
14	A I don't even recall.
15	Q Was it Mr. O'Hagan?
16	A It was done in connection with the court suit
17	which was up in, I believe, probably, it came through
18	Bob O'Hagan's office.
19	Q When you prepared this thing you knew you
20	were involved in litigation or at least the Township was?
21	A I would assume so.
22	MR. FRIZELL: I have no other
23	questions.
24	THE CHAIRMAN: Any questions?
25	MR. SAGOTSKY: I have nothing.

	PAGE 157 Gerkin - direct
1	MR. BRENNAN: Addressing the
2	\$10,000 number. Isn't that what you were
3	driving at, Mr. Frizell? The \$10,000 number
4	was roughly the improvement cost.
5	Were you attempting to say that
6	
7.	would be the average cost of a buildable
8	lot?
9	MR. FRIZELL: That's what Mr.
10	Gerkin said the improvement costs for each
11	lot on an average basis would be.
12	MR. GERKIN: The street
13	improvement doesn't include any grading
14	around or the construction of the house?
15	MR. BRENNAN: You now have a
	lot that is buildable. You can go in there.
16	MR. GERKIN: Right, there are no
17	wells and there is no septic. That is
18	not included with this and within the
19	housing cost.
20	MR. FRIZELL: I have one other
21	question.
22	You didn't design the detention
23	facilities for this proposal?
24	MR. GERKIN: No.
25	MR. FRIZELL: I have no other

	PAGE 158
1	questions.
2	THE CHAIRMAN: Does anyone have
3	a question they would like to ask Mr. Gerkin?
4	Fine, thank you, Mr. Gerkin.
5	(Witness excused.)
6	THE CHAIRMAN: Mr. Kiefer, please.
7	MR. HERMAN: I note it is after
8	midnight and Mr. Frizell kind of technically
9	indicates that all the testimony was to be
10	heard by the 21st. This witness, and the
11	one, I think he is going to call after this
12	have already appeared before this Board and
13	have undergone direct examination and
14	cross-examination. I am not sure that it is
15	necessary to hear them again.
16	I wonder if you might want to
17	see if all the parties here are willing to
18	extend the hearing for the purposes of hearing
19	the same witnesses again.
20	MR. FRIZELL: First of all, Mr.
21	Herman, it's not necessary to give all the
22	parties an extension. Only the Applicant
23	has this power or authority, number one.
24	Let me say that the 21st date
25	was actually a typegraphical error. As Mr.

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	Gerkin - direct PAGE 159
1	Sagotsky said, I put that number in and
2	as luck would have it, the Court Order
3	actually says the 22nd. I didn't realize it
4	when I wrote that in.
5	THE CHAIRMAN: Why didn't you
6	tell me that before?
7	Therefore, we will do like they do
8	in Congress and not stop the clock right at
9	twelve and say, "That's it."
10	
11	DONALD E. KIEFER, Sworn.
12	DIRECT EXAMINATION BY MR. FRIZELL:
13	Q The hour is after twelve.
14	Mr. Kiefer, did you analyze the fundamental
15	method used by Mr. Walker in analyzing the feasibility
16	of development of the project in the current zone?
17	A Yes, he did.
18	Q What was the purpose of that investigation,
19	do you have that report here?
20	A Yes, I do.
21	Q Do you have extra copies?
22	MR. MARKS: I would like that
23	marked for identification that anything
24	evidential comes from the lips of the
25	witness.

	Kiefer - direct 160
1	MR. FRIZELL: Let me address that
2	point. The State Development Guide Plan
3	was marked and it didn't come from the lips of
4	any witness.
5	MR. MARKS: It's public knowledge.
6	MR. FRIZELL: It makes m difference.
7	MR. MARKS: Certainly, it does.
8	MR. SAGOTSKY: Wasn't that by
9	consent, Mr. Frizell?
10	MR. FRIZELL: It was by consent
11	because I recognize the futility in this
12	kind of procedure.
13	
14	MR. SAGOTSKY: Let me determine
15	what that is. A-55 is my last exhibit.
16	Does that check with you? It is not?
17	I offer it as A-56. I'll just put it in for
18	ID and you can make a determination after
19	that.
20	BY MR. FRIZELL:
21	Q Mr. Kiefer, the investigations, before I
22	rudely interrupted you, that you had made of the Township;
	what was the purpose of the investigation?
23	A The investigation was basically, two-fold. One was
24	to determine subdivision approval history and also
25	preliminary subdivision approval history in Colts Neck

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Township from the period beginning January 1, 1975 through the present.

The second was to determine sales activity within subdivisions as approved at that time.

In terms of subdivision activity; what
did you discover?

A I might preface first my statement by saying that when the research was done, part of it involved contacting the Planning Board in the Township, and I have a copy of the Township's letter dated August 17th, 1980, which I had previous to this meeting was part of what was utilized in this research.

> (Whereupon, a copy of a report is received and marked A-56 for identification.)

> > MR. FRIZELL: Do you want to

mark that, too, Mr. Sagotsky?

THE WITNESS: Perhaps it would be best if I summarized my findings, unless you would like to go through them individually?

MR. FRIZELL: I think since it is ten after twelve, Mr. Kiefer, it is perfectly acceptable to summarize the findings.

MR. SAGOTSKY: You are referring to what you're summarizing the findings?

MR. FRIZELL: He's going to

	Kiefer - direct 162
1	summarize for us now.
2	MR. KIEFER: That's a partial
3	report.
4	MR. SAGOTSKY: Colts Neck Planning
5	Board Report on Major Subdivision Approvals,
6	January 16th, 1978 to July 14th, 1980,
7	inclusive, is marked A-57 for identification.
8	(Whereupon, a report of Major
9	Subdivision Approval is received and marked
10	A-57 for identification.)
11	THE WITNESS: As I said, Mr.
12	Frizell, this is a partial report as to the
13	research. I went back further than that
14	particular report.
15	BY MR. FRIZELL:
17	Q Yours went from '75?
18	A January, '75 through the same date as that report.
19	Q Through August, 1980?
20	A That is correct.
21	Q What did you discover in terms of
22	subdivision activity?
23	A During the period from January 1, 1975 to the
24	present time, approved subdivisions by year in 1975, there
25	were a total of 66 lots created through major subdivision
	approvals. 1976, a total of ten lots. 1977, 49 lots.

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¹ 1978, 66 lots. 1979, 9 lots. To date in 1980, 7 lots.
² That equates to a total of 207 lots created through
³ major subdivision approval since January, 1975.

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What next?

⁵ A I also obtained information regarding subdivisions
⁶ which have obtained preliminary approval but for which have
⁷ not received final approval to date.

⁸ Q What was the total for what time frame?
⁹ A The preliminary approvals run from June of 1979,
¹⁰ through August of 1980. The total number of lots
¹¹ involved in those preliminary approvals total 143.

12 Q Then did you attempt to determine the
 13 number of residences actually constructed?

¹⁴ A Yes, I did. I made an analysis of the
¹⁵ residence activity constructed in Colts Neck Township.
¹⁶ From the beginning of 1975 to the end of 1979.

Q On a year-by-year basis, what did that
reveal?

¹⁹ A In 1975 there were 22 new residences constructed.
²⁰ In 1976 there were fifty-one. In 1977 there were also 51.
²¹ In 1978, 35. In 1979, 44, for a total of 203.

Q Did you also add that number, and did you
analyze new home sales and also lot sales?

Yes, I did. I confined myself to the subdivisions
which had received approval within the time reference I was

working in.

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So as to analyze just sales within those subdivisions.

In the year 1975 there were sixteen sales of homes, 5 and three sales of lots, for a total of nineteen sales. 6 In 1976 there were forty-six sales of homes and two sales of 7 lots, for a total of forty-eight. In 1977 there were 8 twenty-four home sales and twelve lot sales, for a total 9 of thirty-six. In 1978 there were twenty-three home 10 sales and sixteen lot sales, for a total of thirty-nine. 11 In 1979 there were twenty-eight lot sales, excuse me, 12 twenty-eight home sales and thirteen lot sales, for a total 13 of forty-one.

Q From all that data, did you attempt to 15 recapitulate and analyze the residential demand in Colts 16 Neck Township by the subdivisions?

A Yes, I did. That was the purpose of the research, to attempt to develop historic patterns, both for new subdivisions coming on line with the Township and becoming available, and also to establish trends as to the absorption rate of those lots which were created.

Q What was the result of the analysis? A Based upon the total number of lots which became available through major subdivisions and the total demand, which would be the total figure for both home

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sales and lot sales, assuming that where a subdivision 2 could come on line, either a home or a lot could be purposed, the average absorption rate for the last five years within the Township has been 36.6 units. When I say units, it encompasses both homes and lot.

How did that compare to the supply of homes Q 7 or lots for sale by virtue to your analysis of subdivision 8 approval?

A There has been an annual average excess over that 10 five year period, which over the five years, just in home 11 construction totals 66 units.

On an average annual rate of home units? Q 13 Thirteen point two, and you are approximately one-A 14 third of the total community point figure.

Did you attempt in your own opinion to Q 16 form any conclusions as to some factors that might be 17 creating this condition of supply in outstripping demand? 18 A I considered a couple of factors which I considered 19 fairly basic. One being that the buying trend of the 20 home buying public is changing somewhat.

There is, for a number of reasons, they move 22 away from large single-family dwellings. Whether it's 23 because of the fact it's becoming increasingly expensive 24 to maintain and be it the fact that families are 25 becoming smaller or the population is growing up in age

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and lots of people don't require large homes any more. I feel there is a declining overall market for large lots, and large single-family homes.

The cost of single-family housing, particularly of the size and type dictated by the A-1 zone in Colts Neck, is becoming increasingly less affordable to a greater number of people. The prices are just outstripping the ability to purchase.

So I felt that overall it was generally a soft market that is not related specifically to Colts Neck or any other community that you would find large singlefamily residences.

Without going to the physical analysis ۵ 14 of the property and its surrounding features again on the 15 Orgo Farm tract, but based on this information you now 16 have; did you reach any conclusion of the competitive 17 position of the Orgo Farm tract for this type of housing? 18 I visited all of the subdivisions which were 19 included in my report, at least to the extent of driving 20 through them quickly. It was my opinion, for reasons 21 which were stated in the report, that I previously 22 submitted to this Board, the Orgo Farms property would not 23 hold strong competitive position when compared to most 24 or all of homes on other subdivisions, and I assume 25 you perhaps learned since then that Mr. Walker shares th

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	Kiefer - direct PAGE 167
1	same view.
2	He says the sites in the northern part of town near
3	the reservoir, especially, were superior sites for this
4	type of development.
5	MR. MARKS: I object to that
6	question. The question would borne out
7	the testimony.
8	MR. SAGOTSKY: It's not very
9	evidential what someone else said. It's
10	pure hearsay.
11	MR. MARKS: It may be late, but
12	let this go on. Let's not take excess
13	liberties, Mr. Frizell.
14	MR. FRIZELL: I'll withdraw that.
15	BY MR. FRIZELL:
16	Q Mr. Kiefer, notwithstanding the non-
17	competitive position, in your opinion on the Orgo tract,
18	and Mr. Walker's opinion, and the report will bear me
19	out, did you make an assumption for the purposes of
20	an analysis that the Orgo Farm tract is equal to all other
21	tracts in terms of its attractiveness to potential
22	buyers?
23	A Yes, I did.
24	MR. LARKIN: Sir, equal in terms
25	of what?

1 MR. FRIZELL: Equal in its 2 attractiveness to buyers. 3 MR. LARKIN: In what way, the 4 PUD's? 5 MR. FRIZELL: No, single-family 6 homes. 7 MR. SAGOTSKY: You mean 8 financially, topographically or historics 9 MR. FRIZELL: If lots were for 10 sale in the Orgo tract and lots were for 11 area, a buyer would be equally attracted 13 either area. That's the assumption Mr. 14 has made for his analysis. 15 BY MR. FRIZELL: 16 Q 17 That analysis based on the hard data 18 Q 19 Yes, I did. What I considered as the current 19 asympty; 20 A 21 Yes, I did. What I considered as the current 22 developed as attached to single-family housing under c	E 168
2 attractiveness to buyers. 3 MR. LARKIN: In what way, the 4 FUD's? 5 MR. FRIZELL: No, single-family 6 homes. 7 MR. SAGOTSKY: You mean 8 financially, topographically or historic 9 MR. FRIZELL: If lots were for 10 sale in the Orgo tract and lots were for 11 sale on the Swimming River Estates or in 12 area, a buyer would be equally attracted 13 either area. That's the assumption Mr. 14 has made for his analysis. 15 BY MR. FRIZELL: 16 Q 17 that you obtained and based on how the Orgo Farm tract 18 would be developed, did you make analysis of the currer 19 supply? 20 A 3 Yes, I did. What I considered as the current 3 youply, assuming that the Orgo Farm site were to be	
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²¹ supply, assuming that the Orgo Farm site were to be	
supply, assuming that the orgo rarm site were to be	
²² developed as attached to single-family housing under c	
	irrent
²³ zoning, we have indicated a surplus between 75 and 79	of
²⁴ seventeen units. Approvals in 1980 for seven units.	
25 Once again, when I'm saying units, I'm relating	to

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both homes and lots. Preliminary approvals for 143 units.
 I utilized a figure of 83 units for the Orgo Farms site
 for what I called a total current supply of 250 units.

⁴ Q So you didn't count any potential loss of
⁵ units as Mr. Gerkin indicated? You gave the full 83
⁶ units that he came up with on his plan?

⁷ A That is correct.

⁸ Q Now, did you then attempt to determine what
⁹ the overall absorption rate was?

¹⁰ A Yes, I did.

In order to do that, I made one other assumption.
 The average increase, or average number of units coming on
 line each year through major subdivisions is an average of
 approximately forty over the last five years.

¹⁵ Since I'm projecting into the future, I held that
 ¹⁶ as constant as lots were absorbed, and they were replaced
 ¹⁷ by these forty units a year.

As you brought out, Mr. Frizell, I assume absolute
 equality of marketability. That any particular lot in any
 location would have just as good a chance of being
 purchased as any other lot.

Making that assumption, the probability of any
particular lot being sold becomes a mathematical function
of the ratio of the number of lots within a given
subdivision with the overall supply. It is a situation

1	of random probability.
2	Q What was the absorption rate based on the
3	data that you estimated reasonable with the Orgo Farms
4	project, assuming that it was equal to all other
5	subdivisions available?
6	A Assuming total equality, the absorption rate
7	that was calculated was six units per year.
8	Q Now, some of these subdivisions that were
9	approved would be built out if they had six, but I take
10	the years you assumed they would be replaced in other
11	subdivisions of similar quality.
12	A Correct, that would be a constant supply of
13	equal type lots available.
14	Q Similar to the same conditions as
15	experienced in the first year that you know exist today?
16	A That is correct.
17	Q Now, did you then attempt to determine
18	what the improvement costs of this particular project
19	would be?
20	A Yes, I did.
21	Q What did you use as a source of information
22	for that?
23	A I.relied on a number of sources.
24	MR. BRENNAN: I would like to ask
25	him about his sources. If Orgo Farms

1	constitutes 83 lots, just about on the
2	button, one-third of the 250 supplied,
3	yet you then make reference to 36.6 units
4	annually, moving out the supply and being
5	replaced.
6	It seems to me you have compounded
7	5 per cent.
8	THE WITNESS: I actually increased
9	the demand into the future.
10	MR. BRENNAN: What I am getting
11	at is if we take this 36.6 units and Orgo
12	has one-third of the supply, why don't
13	you have twelve units instead of six units
14	that you mentioned?
15	THE WITNESS: The way it was
16	calculated was to take the Orgo Farms
17	subdivision, theoretical subdivision of
18	83 lots, and not concerning myself with
19	any particular lots within that subdivision,
20	and assuming that any one of them could be
21	sold, relating those 83 to the total supply,
22	you come up with a factor which is
23	approximately a third. For the third year,
24	taking that third and applying it against
25	the total project, the absorption rate for

1	the entire municipality, which in this case
2	would be roughly twelve, but as Orgo lots are
3	sold, they decrease the ratio and become
4	smaller in number and actually continues to go
5	down for the sake of analysis and comparative
6	purposes, I took the grand time required
7	for absorption, and related that to six units
8	a year, which was equated to the average
9	absorption rate for Orgo Farms.
10	MR. FRIZELL: I'm glad you asked
11	that question. There were six locations
12	
13	and you simply divide it by six. Is that
14	what you mean?
	THE WITNESS: No.
15	BY MR. FRIZELL:
16	Q If there were twelve locations, wouldn't that
17	make any difference?
18	A If the supply was greater?
19	Q In other words, why didn't it make a difference
20	if Orgo has more lots available, and if another man had
21	six available and he is in a superior location; wouldn't
22	he sell his six?
23	
	A Except, the assumption was if all the lots available
24	A Except, the assumption was if all the lots available were equal, it is a situation of like there is a bin full
24 25	

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You wouldn't know which one you picked out until after you got it.

To make a projection like this you really have to
 assume equality as I stated in my report. It was not an
 opinion that Orgo Farms was competitive with the other
 subdivisions. But for the sake of argument, and analysis,
 I considered it to be so.

⁸ Q Did you try to test that analysis against
⁹ any actual experience in Colts Neck?

A I did an analysis of sales in the Swimming River
 at Colts Neck subdivision. The 45 lot subdivision, which
 was approved in 1975.

Q What did you find the average sales volume was?

¹⁵ A Over a five year period, the average sales volume
¹⁶ in Swimming River at Colts Neck was 7.4 units to the 6.1,
¹⁷ which I calculated for Orgo Farms.

18 Q Did you find that within an acceptable
 19 range in terms of testing?

A Yes, considering that I made the assumption of
equality, I considered the Swimming River Development
to be a highly competitive development. So I felt it
would be indicative of the random probability
philosophy 7.4 to the 6.1, which I felt close enough to
lending validity to my calculations.

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Q I was asking you about your sources of information for the development cost per lot. You said you used several sources?

A Yes, and the report I had previously submitted to this Board, I did a detailed analysis of the cost breaking down subdivision in Colts Neck. Saw Mill Estates was the application.

I utilized a cost estimate figure, which is now approximately a year old, which had been prepared by the Township Engineer. Any of the items that we deemed to be particular to Saw Mill Estates and not typical were taken out. The remaining figures were used to arrive at a per lot improvement cost, an average per lot improvement cost.

As I said, realizing that the purposes for that it was done by the Township Engineer, and I did not make any adjustment to the fact that they're almost a year l8 old.

19 Q Now, did you also attempt to make any 20 corrections or additions to Mr. Walker's engineering 21 costs for final approvals?

A Yes, I did. I spoke to Mr. Ney, regarding cost for engineering and for final approvals, and relied on his representations as to what the typical average costs currently are in Colts Neck Township would be.

1 Did you find that the \$500 figure used by Mr. Q 2 Walker, which incidentally, Mr. Gerkin is not the source 3 of, but did you find the five hundred conforms to Mr. 4 Ney's advice? 5 A No, the figure I received from Mr. Ney was three 6 times that figure, \$1,500. 7 Are you assuming that Mr. Walker's analysis Q 8 was correct in terms of legal? I know you didn't 9 call me and ask what the legal services would be. 10 Did you assume Mr. Walker's analysis was correct? 11 A I did. I accepted a number of Mr. Walker's figures 12 to allow for comparison. 13 Q Did that include interest on direct or 14 indirect cost at 14 per cent? 15 A That is correct. 16 Did that include sales commissions? Q 17 A At seven per cent, yes. 18 Insurance at a fixed rate? Q 19 Yes, \$2,500 per year. A 20 Q Legal fees for closing of \$200? 21 A That is correct. 22 And real estate taxes? Did you know the Q 23 amount? 24 I made my own computations as to real estate taxes. A 25 I felt that Mr. Walker's figures for real estate taxes

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1	were excessively low.
2	Q Now, did you make any other assumptions
3	concerning when the improvement of the subdivision would
4	be made and on what basis did you make that assumption?
5	A I made that assumption
6	Q Maybe I should ask this question first.
7	Do you know how long the preliminary subdivision is
8	good for under the Municipal Land Use Law before a final
9	is to be submitted?
10	A I'm not certain. I have two figures in mind,
11	and I'm not sure if I base my analysis on the proper figure.
12	MR. SAGOTSKY: Are you referring
13	to 180 days?
14	MR. FRIZELL: No, I'm talking about
15	three years for preliminary and major. There's
16	a three year limit. Well, it is a matter of
17	law. It is a three year limit on preliminary
18	and major and two years, additional and final.
19	BY MR. FRIZELL:
20	Q When did you assume in terms of when the
21	improvements would be made in this project?
22	A I assume that initially one-third or twenty-seven
23	lots would be improved the first year. I provided for
24	the improvements of an additional third during the third
25	year of development. Final third, which is the 29 lots

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during the fifth year of development.

Q The assumption being if you didn't put in
the improvements, the developer would stand the possibility
of not having the preliminary stand in losing it and the
zoning being changed and, et cetera?

A That's correct.

7 Based on the analysis and study; did you then Q 8 attempt to determine, using Mr. Walker's methodology and 9 fundamentally, what the residual land value of the land is? 10 Yes, I did. I followed, although in format it is A 11 somewhat different than it is set up. It is an identical 12 process of taking gross sales from that and subtracting 13 direct and indirect cost to arrive at a net sales revenue 14 and then discounting those figures to present day 15 growth.

Q Using the same discount rate that Mr. Walker
used?

18 A That is correct.

Q Do you have an analysis?

²⁰ A Yes, I do.

Q Do you have a copy of it?

²² A It's in the report.

Q You, of course, were not there, Mr. Kiefer,
but you can confirm this that when I asked that certain of
Mr. Walker's figures were changed, such as the build-out

1	and improvement cost primarily, that absorption rate is
2	simply a mathematical process and to use his math and
3	come to a residual land use of the project; you confirm
4	that it is fundamentally a mathematical process?
5	A Yes, that is correct.
6	

Q Using that same mathematical process, what did you conclude was the residual land value for development purposes?

⁹ A My calculations for the Orgo Farm site to be
¹⁰ developed and marketed as a detached single-family
¹¹ subdivision. That over the course of the sell-out
¹² period, costs would exceed discounting the present day
¹³ worth of sales, which is equivalent to the residual value
¹⁴ of the land by \$1,703,989.

That is to say, there is a negative value to the development of the land of this proposal.

17 Now, Mr. Kiefer, whatever the residual land ٩ 18 values Mr. Walker came to, only confirm that that analysis 19 work only tells us the total sum of the following 20 components and the price of the land to the seller, and 21 all of his costs, including all of his taxes, et cetera. 22 The developer's profits, and the interest, if any, on the 23 purchase money mortgage, that they would all have to be 24 accommodated within the so-called residual land value? 25 That is correct. We treated the analysis of the A

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Kiefer - direct

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development for this, both Mr. Walker and I conducted it, and when the residual land value was arrived at, it would consist of the price that would have to be paid for the land for the purchase land value of the land, and the profit which the developer could expect to receive, as well as certain other costs and value that were not provided for in the analysis.

One being the cost of financing.

9 Q The total sum of the money would be, as I 10 said, the sum of not only the seller would be, but only 11 what the developer could expect?

A That is correct. That would all come out on the
residual land value.

14 Q Beyond the one million seven negative value 15 of the land, did you try to reduce the build-out schedule 16 as a test?

A I did. I was very satisfied with the original
 computations as to absorption rates. I thought it was
 well documented.

However, half out of curiosity and also to provide
a point of reference, I work the calculations and I may
have miscalculated the absorption rate by a hundred
per cent. Instead of being six units a year, it would
be twelve units a year.

What was the land value that you calculated?

	· · ·	
	Kiefer - direct	PAGE 180
1	A It's an identical process	to the one shown in
2	my report. The only changes would	ld be the gross sales of
3	land values and computation of re	eal estate sales commissions
4	and real estate taxes.	
5	Q On an annual basis	?
6	A On an annual basis.	
7	Q The total would be	the same?
8	A That is correct.	
9	Q What is the residua	al land value under that
10	seven year build-out system?	
11	A It shows a negative residu	ual land value of
12	\$634,267.	
13	MR. FRI	ZELL: I have no other
14	questions.	
15	MR. BRE	NNAN: I have a copy of it
16	and it's very hard	to pick up your fourteen
17	year absorption ra	te. You're implicating
18	and you are compound	nding the sales price
19	20 per cent annual	ly it appears.
20	THE WIT	NESS: That is correct,
21	yes.	
22	MR. BRE	NNAN: But technically,
23	I can't figure wha	t it would look like if
24	twelve lots were s	old in the first year,
25	and then say eleve	n in the second year?

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THE WITNESS: It would make it a less attractive situation for the following reason.

The heavy expenses are in the first five years. That's when all of the development costs are provided for. Interest on those direct costs are carried through the life of the project. If sales were to decrease and then further to be discounted by present day worth, which is fourteen years, that is the factor of point 1597 and it would show in my opinion, in almost constant negative present day worth in lot sales. Right on down the line. The way I have structured it from year six through year fourteen, the present day worth, or discounting the worth of lot sales, is already a plus number.

It shows a positive income through those periods, but the expenses are so heavy for this type and development, and since income is coming in the later years, and it is so significantly discounted, it is not enough to offset the final total negative residual land value. When you have from

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1	year six through year fourteen becomes a
2	smaller negative number, which is close to
3	zero, but still it is a negative number.
4	THE CHAIRMAN: Any more questions
5	of Mr. Kiefer? Any member of the Board?
6	Mr. Marks, do you have any questions?
7	MR. LARKIN: I have one question.
8	What is the average price going to
9	be? You mentioned 120 to \$150,000 range
10	roughly. How many single family units in
11	Colts Neck; 240 per year?
12	THE WITNESS: I would have to refer
13	to my notes. I don't recall what the exact
14	number was. A couple of hundred, perhaps
15	more.
16	MR. LARKIN: I'm not talking per
17	year, I'm talking about the total.
18	THE WITNESS: I have not done an
19	analysis of that. One reason that I feel
20	that the figures that I developed for this
21	projected absorption rate is because you re
22	talking about entirely a different type of
23	commodity than that which would be produced
24	under the existing zoning.
25	MR. LARKIN: The decision being of

1	less maintenance?
2	THE WITNESS: That would be
3	one of the considerations. Small homes,
4	smaller lots differ in concept in housing,
5	as I understand it.
6	A California type of single-family
7	home as opposed to the larger more traditional
8	historical type of homes.
9	MR. LARKIN: How did you arrive
10	at the figure single-family units, and Mr.
11	Frizell, you can correct me, how did you
12	propose that?
13	MR. FRIZELL: It is 68 on larger
14	lots. If you want to count the 5,000 foot
15	lots?
16	MR. LARKIN: I'm trying to get a
17	number of houses selling between 120 and
18	\$175,000 for the proposed development.
19	MR. FRIZELL: I think it's
20	around seventy, the total.
21	MR. LARKIN: Again ten a year?
22	THE CHAIRMAN: If you phase it out.
23	MR. FRIZELL: If you phase it out,
24	yes.
25	MR. LARKIN: Would that be a

	Kiefer 184
1	significantly greater number?
2	MR. FRIZELL: He said there is
3	
4	different commodities.
5	MR. LARKIN: That's your
	contention. I'm not sure that's the
6	contention that I'll get. \$150,000 homes
7	on lots of 40,000 a lot.
8	MR. FRIZELL: Use ten, and see
9	what happens.
10	MR. LARKIN: Again, the number,
11	even based on an absorption rate of six?
12	
13	THE WITNESS: I also did an
14	analysis based on twelve, which shows a
15	negative residual value in excess of
	\$600,000.
16	MR. LARKIN: I'm not talking about
17	a residual value at all.
18	How many lots can be sold in
19	Colts Neck?
20	THE WITNESS: Projections into
21	the future can only be made based on
22	historical trends. I think that I've
23	
24	thoroughly documented historical trends,
25	and it was how I arrived at my projections
~	for absorption.

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MR. DAHLBOM: You think the present economic indicators have some impact on your conclusions?

THE WITNESS: To a certain extent. I started my analysis in 1975, which was the period when we were coming out of a recession. Similar to the one we're in now, where the housing market had been very depressed. Building had been cut way back as such. When it finally did pick up and conditions improved, seventy-five was a heavy year for sales, above the average, I believe.

I feel we have gone the full cycle in this five year period and it would be indicative of the general overall market conditions.

We started out coming out of a recession on the rebound and we're ending up going back into another one. So I felt it would be indicative of the general overall conditions.

THE CHAIRMAN: Did your company have any on site experience in Colts Neck? Did you sell in Colts Neck?

	Kiefer 186
1	THE WITNESS: We do not sell homes
2	at all.
3	THE CHAIRMAN: Just consultant?
4	THE WITNESS: We are strictly
5 6	commercial and industrial brokers. There
7	are actually two firms in the same building.
8	Although I am associated with a brokerage
9	firm, I have association only in name.
10	I am strictly in the capacity of a real
11	estate appraiser and consultant. I am not
12	directly involved with sales. Exposure wise, I'm not even around residential sales, because
13	our office does not do that type of work.
14	THE CHAIRMAN: Then wouldn't it
15	be rather peculiar that you would be testifying
16	on residential when you say you specialize
17	in commercial and industrial?
18	THE WITNESS: No, I believe I
19	said I specialize as a consultant and an
20 21	appraiser, and as such I deal with all
22	types of real estate.
23	Perhaps I misunderstood your
24	question. I thought you were asking me if
25	I have experience in selling homes in Colts

Neck?

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THE CHAIRMAN: The initial one was, yes, if your firm did.

You indicated that you thought Mr. Walker's figures on the taxes were extremely low. On what base did you use in making yours higher?

THE WITNESS: Mr. Walker and I both felt with a \$40,000 sales price for an improved lot, going by the general rule of thumb, that the cost of an approved but not improved lot in the subdivision would be worth approximately 10 per cent of the total sales price of the completed package, home and finished lot. Taking a \$150,000 - sales figure and putting in a value of \$15,000 on the per lot or the approved lots. I did my computations actually, three steps were involved for each year. I considered the lots that were sold each year as improved I assume a steady sell-out over the lots. course of the year so that the developer would not be liable for the entire year's taxes on those lots that were sold. Assuming that it was evenly spread, I computed the taxes on those sold, \$40,000 lots, and

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divided it in half to arrive at a figure for the sold lots. Then I took for each given year, the remaining improved lots. Computed the taxes for the full year on those. Then I took the approved but not improved lots, the total for each year, running totals in each column, and computed the taxes on those. The total of those three computations are the figures that I utilized for the real estate taxes in each year given.

THE CHAIRMAN: What I really should have asked, is what tax rate are you computing?

THE WITNESS: I took the 1980 tax rate and kept it as a constant. Feeling that to do otherwise would just be too much conjecture, and that whatever the tax rate did in my analysis and Mr. Walker's analysis, be reflected accordingly and proportionately.

THE CHAIRMAN: Any other

questions?

MR. SAGOTSKY: Mr. Kiefer, do you understand what I mean when I say just for location, topography, frontage, depth and

1		PAGE
1	Kiefer	189
2		other limits?
		THE WITNESS: Yes, I do.
3		MR. SAGOTSKY: In making a
4		comparison?
5		THE WITNESS: Yes, sir, I do.
6		MR. SAGOTSKY: When you took the
7		Swimming River project, did you make a set
8		of adjustments for various lots and compared
9		
10		them to adjustments as to the Orgo tract?
11		THE WITNESS: No, I didn't.
12		MR. SAGOTSKY: Did you make an
13		analysis?
14		THE WITNESS: I made as I
15		said earlier my conclusions
16	•	MR. SAGOTSKY: You said you made
17		an assumption in the quality. I know what
18		you said. I know that.
19		My question was, you didn't make
		adjustments, and I am talking about
20		the adjustment analysis for each lot in
21		each development as compared to the
22		others.
23		THE WITNESS: No, sir, I did not.
24		MR. SAGOTSKY: I have no other
25		questions right now.

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	Kiefer 190
1	MR. HERMAN: Would the Reporter
2	just repeat Mr. Sagotsky's last question.
3	(Whereupon, the Reporter read
4	back Mr. Sagotsky's question.)
5	THE CHAIRMAN: Any other questions?
6	
7	CROSS-EXAMINATION BY MR. MARKS:
8	Q Mr. Kiefer, you told us that you physically
9	inspected the sites in Colts Neck, and you told us you
10	drove through them quickly; is that correct?
11	A That is correct, yes.
12	Q You say you drove through them quickly
13	and just drove by; did you stop on the property?
14	A The intention of my visiting each site was just
15	to get an overall feel for the general character of each
16	area. I did not get out and make a physical inspection
17	of lots and it was not a detailed inspection. Merely,
18	it was for the purpose of comparing the overall character
19	and atmosphere to the Orgo Farms property.
20	Q You just drove by and determined whether
21	it was attractive or unattractive to you?
22	A That is correct.
23	Q You didn't really use anything except your
24	eyes and your feelings; is that correct?
25	A That is so.

	474	
1	Q You told us that you never had any sales	
2	in Colts Neck; is that correct, no residential sales,	
3	correct?	
4	A I do not sell real estate, no.	
5	Q You have never done any residential appraisals	
6	in Colts Neck either?	
7	A I believe I have. I'm not certain. I know I have	
8	done a number of appraisals in Colts Neck. I would have	
9		
10	to review my files to see how many were residential.	
11	Q Well, about how many residentials would you	
12	think that you have done?	
13	A It would be impossible to say. Based on the	
14	magnitude of the number of appraisals that I do each	
15	year, it's impossible to remember them. All I can say	
16	approximately, 20 per cent of the total appraisal work I do	
17	is residential appraisal work.	
18	However, to relate to that a specific number in	
19	Colts Neck, I do not know.	
20	Q You wouldn't know whether you didfive a year	
21	or ten a year?	
22	A I don't know. I think it would be higher.	
23	Q Under five?	
23 24	A I would assume that it would be approximately,	
24 25	five some years, one or two some years and seven or	
20	eight.	

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		Kiefer - cross PAGE 192
	1	Q You said there was a surplus compared to
	2	other townships, of the lots?
	3	A I don't believe that was my testimony.
	4	Q Excuse me, you're correct.
	5	You said there was a surplus of lots in Colts Neck.
	6	Did you compare
	7	MR. SAGOTSKY: Over and above the
	8	need.
	9	MR. MARKS: Over and above the
	10	need.
	11	THE WITNESS: What I said was that
	12	based on the number of lots that have come
	13	into existence during the five year period
	14	I studied through major subdivision
	15	approved as compared to the absorption of
	16	lots out of those subdivisions, the creation
	17	of lots exceeded the absorption rate.
	18	BY MR. MARKS:
	19	Q Have you ever compared that rate to other
	20	Townships?
	21	A I can find this analysis to Colts Neck.
	22	Q But you really didn't compare it to any
	23	other Township?
	24	MR. FRIZELL: I object. It is
	25	totally irrelevant. There might be a demand
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	Kiefer - cros	PAC	ЭЕ 193
1		or a supply or surplus in other towns, bu	t it
2		has nothing to do with it.	
3	BY MR. MARKS:		
4	Q	You don't know whether this absorption ra	te
5	for this diff	erence is high or low; isn't that correct?	
6		MR. FRIZELL: That has nothing	to
7		do with it.	
8		THE WITNESS: It is really for	the
9		purposes of my analysis I made that refer	ence
10		at all. I wanted to determine the histo	rical
11		trends for the creation of new lots or	
12	•	supplies, and the absorption of lots and	
13		demand on lots in order to project an ove	rall
14		absorption rate.	
15		MR. BRENNAN: Do you agree tho	ugh
16		that the process that you went through in	L
17		your study does treat Colts Neck as if it	Was
18		an island? That is, if there were many 1	ots
19		approved or improved and let's say a lot	
20		homes were put up in Holmdel or Middletow	
21		the market may deviate conversely fifteen	-
22		years. And one might say that the	
23		development going on in Holmdel you might	;
24		have a higher absorption over here. You	
25		studying a very narrow market in the	

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Township of Colts Neck.

THE WITNESS: That is correct. If I can just expand a little bit on what you said.

The purpose was to ascertain a competitive position or to determine how the Orgo Farm development would fare against other similar A-1 zone sites within the Township. I agree demand could increase next year. What I was trying to do, was, irregardless of whether demand went up or down, I still feel that the site would maintain its same relative proportion. Unless there was a situation where there was a tremendous demand and limited supply, then rather the current buyers' market, it would become a sellers' market, but there was no indication of this previously happening. For the reasons that I stated regarding the overall market for large lot, large homes, single-family housing. It is my opinion that will not be the situation, but, yes, it was confined to a narrow market.

THE CHAIRMAN: I think you did testify earlier on that the general real

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	estate sales malaise exists not only in Colts
	Neck, but it exists all around?
	3 THE WITNESS: No, I believe I
	did say that at the outset particularly,
ł	5 with regard to the character of the home
(buying public, family structure is changing.
7	Birth rate is going down. We have more and
8	
9	
10	
11	don't care to maintain a large home. The
12	current trend is toward smaller more economical
13	housing.
14	So it is a condition that exists
15	probably, cross-country as to large lots.
	THE CHAIRMAN: I have one other
16	question.
17	Did your reports on subdivisions
18 [.]	agree with the report that you have just
19	seen from the Planning Board?
20	THE WITNESS: As I believe I
21	stated, I had acquired that report, yes,
22	and I use that report as part of my basis.
23	That was the basis for my figures from
24	1978, I believe, through the current time.
25	THE CHAIRMAN: I may be a

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	simpleton, but they have in just two and a
2	half years, 212 lots and I think you only
3	had 205 for four years. I can't quite resolve
4	that.
5	THE WITNESS: That total in that
6	letter, I believe, also includes totals
7	for preliminary approval.
8	THE CHAIRMAN: Mr. Marks, you
9	have some more questions?
10	
11 12	RECROSS-EXAMINATION BY MR. MARKS:
12	Q Yes, you said you did an analysis of the
13	development of costs in other developments; is that
15	correct?
16	A I took a specific development and did an in depth
17	analysis of developments costs there.
18	Q Is there any reason you chose that
.19	development?
20	A I had access to the figures on development costs,
21	and figures on the particular subdivision, and as I said,
22	I ran through them quite carefully so as to pull out any
23	costs that may be strongly related to another site.
24	Q Does the fact that Mr. Burnelli owns the
25	other development, Saw Mill Estates; did he tell you to
	do the analysis on that?

Kiefer - recross

	Kiefer - recross 197
1	A No, he provided me with the figures which, in
2	particular, had been provided to him by the Township
3	Engineer.
4	Q But you just happened to pick that one?
5	A That is correct, yes.
6	Q Just by yourself?
7	MR. SAGOTSKY: He said yes.
8	THE WITNESS: Yes.
9	MR. MARKS: I have no further
10	questions.
11	A VOICE: I don't understand
12	the relationship of this analysis to the
13	impact of the availability of similar houses
14	in nearby townships?
15	THE WITNESS: That is not the
16	intended purpose. It's merely to relate
17	the probability of this type of housing on
18	the Orgo Farms site as compared to the A-1
19	areas in the Township.
20	A VOICE: The reason I asked that
21	question is that sales along Route 34 in
22	Holmdel certainly seem to be far in excess
23	of the rates to be shown here in Colts Neck.
24	There is certainly 120,000 to \$150,000 homes.
25	In Marlboro Township, they

1 authorized several thousand. I think it's 2 close to 3,000 homes that haven't been built 3 in Buttonwood and West Park, and certainly, 4 they are a hundred and twenty to \$150,000 5 homes. In fact, in Marlboro Township they 6 authorized a five acre development on Route 7 520, and last night they authorized a major 8 subdivision of two acres of development under 9 the power lines on Conover Road, and cleared 10 a public hearing for another five acre 11 development. 12 So activity in Marlboro Township 13 and Holmdel for selling large lots certainly 14 doesn't seem to match what you have explained. 15 THE CHAIRMAN: I guess that was 16 sort of a statement. 17 A VOICE: I discussed both 18 with respect to sales in West Park and 19 Buttonwood. 20 THE CHAIRMAN: Thank you for the 21 comment. Do you have a specific question 22 to address to the witness? 23 A VOICE: I think he answered 24 my question. 25 THE CHAIRMAN: Okay, fine.

	Kiefer - PAGE 199
1	MR. SAGOTSKY: I submit it is
2	pertinent.
3	THE CHAIRMAN: No question about
4	that.
5	MR. SAGOTSKY: I would like to
6	swear him in. I find he's very qualified.
7	I think he would be reluctant, but I would
8	like to.
9	A VOICE: I explained why I asked
10	the question. I got the answer.
11	MR. MARKS: I think we can move
12	on.
13	THE CHAIRMAN: Any other questions
14	of this witness?
15	MR. HERMAN: I have a few.
16	
17	CROSS-EXAMINATION BY MR. HERMAN:
18	Q Mr. Kiefer, did you say before in response
19	to Mr. Schrumph's question that you figured as a rule
20	of thumb that the cost of improved lots is about 20 per
21	cent of the ultimate sale?
22	A No, the sale of the approved but not improved.
23	In other words, no site improvements in, but it has received
24	subdivision approval.
25	Q When you said there was figuring on the

Kiefer - cross

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1 single family tract, you were figuring on homes ranging 2 between a hundred and twenty and \$150,000; is that correct? 3 A That is correct, roughly as a range. 4 Q Is that roughly equal to the price of most 5 homes in town now, or is it above or below? 6 A I feel that it represents the appropriate range 7 for a lot at \$40,000. 8 That's not what I'm asking. Q 9 In other words, you think that's consistent with 10 most of the homes in town now above or below it? 11 At the upper end of my estimate, I think it would A 12 be relatively consistent. Of course, there would be 13 areas where it would be higher, yes. 14 Q At the \$120,000 range, would it be lower 15 than most sales in the town? 16 I would assume it would represent the lower end, 17 yes, under the A-1 zone. 18 Did you say before that lower priced units Q 19 tend to sell more quickly? 20 I said there was a general slump in large lots, A 21 large single-family home. I didn't mention that one 22 factor was increasing the price and making housing less 23 available. That is people who areable to afford a small 24 house. 25 What I was generally talking about is the trend

PAGE Kiefer - cross 201 1 of families getting smaller, the upkeep and maintenance 2 on large grounds and large homes becoming a burden to 3 people, and the trend of getting away from the large 4 lot. 5 You're getting off the point. 6 What I would really like to know is in your opinion 7 would a \$120,000 home, would it sell more quickly than 8 one of 150,000 or 175,000 in the town? 9 A My analysis again is based on equality, including 10 the equality of prices. 11 Q I know what it is based on. You're talking 12 about an equal unit ---13 The cheaper ones are going to sell first. A 14 I'm talking about the \$120,000 that you Q 15 envision would be built on this tract as opposed to what 16 might be typical of \$160,000 home in a township which would 17 tend to sell more quickly. 18 In my opinion is that --A 19 MR. BRENNAN: I think you said 20 when it was established the equality for 21 \$120,000 homes in the Orgo site and one 22 hundred --23 MR. HERMAN: He was using 24 statistical data based on the sales rates 25 for homes generally in the Township and

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	applying that to these homes, which would,
2	in his opinion, be priced below the typical
3	houses.
4	THE WITNESS: No, there is
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6	absolute equality assumed. As soon as I
7	made any assumption as to non-equality, then
	I think back to my stated opinion in my
8	report that large lots, single-family homes,
9	are not feasible on that site. It is only
10	done theoretically for point of comparison.
11	MR. HERMAN: How many houses were
12	
13	sold in Colts Neck last year, in 1979?
14	THE WITNESS: I confined my
	study to the subdivisions that I analyzed
15	that were approved within the same time frame.
16	MR. HERMAN: You didn't analyze
17	resales?
18	THE WITNESS: No, I only
19	considered the sales of new construction.
20	
21	MR. HERMAN: Do you think the
22	number of resales in town would be substantially
	larger than the number of sales of newly
23	constructed homes?
24	THE WITNESS: I really haven't
25	formed an opinion as to that.

Kiefer - cross

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2	MR. HERMAN: Would you be
3	surprised that there were approximately
3	150 homes sold last year on resale?
4	MR. FRIZELL: I object to that.
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7	MR. HERMAN: I don't think it is
	irrelevant because before Mr. Kiefer
8	testified and Mr. Brennan had some questions
9	as to how narrow in scope his testimony was,
10	due to the fact his analysis was not in others.
11	
12	The purpose of my question is
	to show the Board that not only did he
13	consider only this Township, but he only
14	considered newly constructed homes and not
15	all the homes. I suggest that if you're
16	going to talk about what demand is,
17	
18	which may be characterized as large and/or
	expensive homes, then the demand ought to
19	be based on how many homes were listed for
20	sale in the Township. How many were sold
21	in the Township and not based upon the
22	particular construction schedules to be
23	
24	adhered by any particular developer.
	MR. FRIZELL: Mr. Herman, you
25	misunderstood the whole analysis.

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MR. HERMAN: I don't think I did. MR. FRIZELL: When you're assuming the development impact of resales is equal, it's only all the lots. These are homes offered for sale on an equal basis with other new homes. These are new homes. They are not resales.

MR. HERMAN: But we have no data as to the demand or what might be characterized as your large and/or expensive homes. It is very possible that homes that are listed for sale on a resale basis sold very rapidly. If that is so, then I would suggest that the demand for large and/or expensive homes in the Township is rather substantial. I think it is very relative to the study if that happened.

MR. FRIZELL: You still don't understand. If there are resales being absorbed, that may be one of the reasons why new homes aren't being absorbed that quickly. It's going to impact all these hypothetical developments equally.

MR. SAGOTSKY: Just please remember and develop a sense of awareness of

PAGE 204

	Kiefer 205
1	the men before whom you are arguing this.
2	So bearing that in mind, you can all guide
3	yourselves accordingly and Mr. Kiefer, please
4	try to make your answers as short as you can,
5	please.
6	MR. HERMAN: Mr. Kiefer, then you
7	don't know how many homes were listed for
8	sale any of those given years in Colts Neck?
9	THE WITNESS: That was not a
10	function of my report, no.
11	MR. HERMAN: Did you go back more
12	than five years in your study?
13	THE WITNESS: No, I did not.
14	MR. HERMAN: Did you analyze to
15	the extent that you did in the Swimming
16	River or any of the other developments
17	of Clover Hill in the Township?
18	THE WITNESS: For comparative
19	purposes, I selected only Swimming River
20	for two reasons.
21	I believe the largest
22	subdivision approved within that time frame
23	and because it went back to 1975 to the
24	beginning of my study.
25	MR. HERMAN: Would you be

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	Kiefer	PAGE 206
1		surprised to learn that development sold more
2		slowly than any other development in Colts
3		Neck?
4		THE WITNESS: As I said, it was
5		the only one I specifically singled out
6		for my analysis.
7		MR. HERMAN: You mentioned, I
8		think in answer to Mr. Sagotsky before,
9		you did attempt to analyze any differentials,
10		and I assume to the proximity to major
11		highway frontage, and consequently, additional
12		exposure; you didn't consider that?
13		THE WITNESS: It was my opinion
14		that if I started considering differences,
15		it is my conclusion that sales would
16		probably be not as good as projected as for
17		the Orgo Farms.
18		I gave the benefit of the doubt
19		in my analysis.
20		MR. HERMAN: But you didn't
21		consider the highway exposure there?
22		THE WITNESS: I assume equality.
23		I will consider that to be detrimental
24		to that type of housing.
25		MR. HERMAN: Highway exposure

	Klefer 207
1	was detrimental to the sale of units?
2	THE WITNESS: Location wise I
3	do not feel it's the best of locations for
4	that type of housing that was analyzed. But
5	no, I assume equality, absolute equality.
6	KR. HERMAN: I have nothing
7	further. Thank you.
8	THE CHAIRMAN: Any other questions?
9	MR. PRIZELL: Mr. Ney, we'll
10	make him fast.
11	(Witness excused.)
12	
13	HEHRY MEY, previously sworn.
14	DIRECT ZXANINATION BY MR. PRIZELL:
15	Ar. Ney, you are still sworn.
16	First of all, Mr. Ney, I have one preliminary
17	question about the improvement costs. You have heard some
18	different opinions and your firm does single-family
19	subdivision work; doesn't it?
20	A Yes, sir, it does. I also have built a number of
21	single-family homes.
22	Q In your experience, Mr. Ney, would you
23	consider the \$18,000 figure used by Mr. Kiefer accurate
24	assopposed to the 3,000 or 10,000 figure used by Mr.
25	Gerkin for this type of development?

	Ney - direct	PAGE 208
1		MR. HERMAN: I have to object.
2		
3		How is Mr. Ney qualified, when you first
4		qualified him?
5		MR. FRIZELL: On the testimony that
		he is a professional engineer and he is a
6		principal in the firm of Abbington and Ney.
7		He just testified it is his firm.
8		MR. MARKS: I thought he was being
9		called as a rebuttal witness?
10		
11		MR. SAGOTSKY: My only objection
12		is on the fact that there has been a
13		comparison already made with another and
		now this is an effort to make a third
14		comparison and to have the other witness
15		as to what he thinks the first two comparisons.
16		MR. HERMAN: Not only that,
17		but a witness to testify on direct and
18		
19		cross as to traffic, and if he's here for
20		rebuttal, then I expect to hear about the
21		traffic. It is not as though
		MR. FRIZELL: You are really getting
22		out of line now, Mr. Herman. Mr. Ney is the
23		principal of Abbington and Ney and he is
24		going to be permitted to testify, Mr.
25		Sagotsky, concerning not only his personal

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2		experience in subdivisions, but the experience
3		of his firm of which he is a principal,
		which does possibly more single-family
4		subdivision work than any engineering firm
5		in the County.
6		MR. HERMAN: As a rebuttal to
7		his traffic testimony?
8		MR. FRIZELL: Come on, Mr. Herman.
9		Will he be permitted or not?
10		Doesn't matter. I can bring
11		him in for any purpose we want to come in for.
12		MR. HERMAN: Sure you can.
13	e e e	This Board doesn't have to hear new
14		witnesses.
15		MR. FRIZELL: That's not true.
16		MR. HERMAN: You said a half
17		hour ago that you're entitled to rebuttal
18		to have your witnesses come back and
19		
20		presumably Mr. Ney ought to invite Mr.
21		Nelson back.
22		MR. FRIZELL: Mr. Herman, your
23		rules of evidence are totally wrong. I can
24		bring a totally new witness to rebut a
25		prior testimony. I don't have to bring in
		MR. SAGOTSKY: I'll ask the Board

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	to rule on the previous question that it
	was improper and asking for this opinion
· · · ·	witness is a decision by way of comparison
	between two previous witnesses. I think
	it is relevant and improper.
	MR. FRIZELL: I want Mr. Ney
	to support the analysis done by Mr. Kiefer
	and I would like to have the ruling.
	MR. MARKS: I join in that.
	MR. SAGOTSKY: The objection is
	sustained. Let's go on to the next question.
	THE CHAIRMAN: Mr. Ney has been
	recalled as a traffic expert, or are we
	in a totally different area?
	MR. FRIZELL: Mr. Schrumph, we
	will cover a number of points, and perhaps
	we will touch on them very quickly.
	Mr. Ney is here to testify about
	his professional engineering. He is a
	principal of the firm of Abbington and
	Ney and they do many things. I don't think
	that Mr. Ney's ability to testify about
	this general area in terms of the
	improvement costs and et cetera, is really
	an issue here. He obviously is qualified

	Ney - direct	PAGE 21
1		and he's being asked to testify as to
2		that issue right now.
3		MR. MARKS: Mr. Ney, did you
4		prepare the engineering data here?
5		THE WITNESS: What data?
6		MR. MARKS: The one submitted
7		by your firm.
8		THE WITNESS: No, that was done
9		by Larry Kovacs, P.E. and checked by Jim
10		Kovacs, P.E., and that has nothing to do with
11		the question Mr. Frizell asked.
12		MR. HERMAN: Mr. Chairman, 1f
13		we were in May or June and Mr. Frizell wanted
14		to bring in more witnesses, it might be
15	·	a different story. I submit to you that
16		you have no obligation to listen to people
17		talking about things that have been talked
18		about ad infinitum.
19		THE CHAIRMAN: And ad nauseam.
20		MR. FRIZELL: This is ad nauseam.
21		Let's just get going and let Mr. Ney tell
22		us what he knows, just move on. What is
23		all this technical business all of a
24		sudden?
25		MR. HERMAN: Mr. Chairman, can

	Ney - direct PAGE 212
1	we have the ruling?
2	THE CHAIRMAN: I'm trying to make
3	one. Filling in ad finitum and ad nauseam
4	
5	on the advice of counsel, I think if you
6	promise to make it brief, we will permit
7	you to bring it back as a professional
8	engineer.
9	MR. HERMAN: Is that the advice
10	of counsel?
11	THE CHAIRMAN: He said one was
12	enough.
13	BY MR. FRIZELL:
	Q Do you remember the question, Mr. Ney?
14	A First, eighteen thousand per lot for the improvement
15	cost is not unreasonable.
16	MR. SAGOTSKY: I think Mr.
17	Frizell has to have his own way. Proceed
18	to your next question.
19	MR. FRIZELL: I thought the ruling
20	was in my favor?
21	MR. SAGOTSKY: Yes, it was,
22	because of your persistence.
23	MR. FRIZELL: My batting average
24	is any evidence of my persistence.
25	
	MR. BRENNAN: It is more

	Ney - direc	t	PAGE 213
1		unreasonable than the \$10,000.	
2		THE WITNESS: Yes, sir, it	is.
3		To give you an example, I wanted a tw	o acre
4		subdivision that was recently approve	d in
5		Freehold Township and Marlboro Townsh	ip.
6		Two towns there is a 200 foot lot fro	ntage
7		that has a site improvement cost and	
8		bonding of about \$15,000 per lot. Tw	o
9		years ago in July, using the 10 per c	ent
10		per year, that's almost a \$3,000 incr	ease,
11		which brings it close to 18,000. In	1973 a
12		subdivision, '73 and '74,	
13		MR. SAGOTSKY: Please don'	t
14		volunteer, Mr. Ney. You go on and on	and the
15		hour is late.	
16	BY MR. FRIZ	ELL:	
17	Q	Mr. Ney, did you have an opportunity	to
18	review the	analysis done by Mr. Nelson in terms of	traffic?
19	A Yes,	sir.	
20	Q	And the intersection of Route 537 and	Route
21	34?		
22	A Capa	city analysis, yes.	
23	Q	Could you tell the Board briefly, if	you can,
24	the results	of your review of that analysis?	
25	A Yes,	Mr. Nelson used a series of nomographs,	which

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we based upon the 1955 Highway Capacity Manual.

His analysis was based upon a rural intersection using basically a standard capacity analysis work sheet form. The problem with this form in analyzing it, is you have to go back to the nomographs and run through the same curves that Mr. Nelson did to approach within the percentage of turns and, et cetera, and see if all the numbers are correct.

Since the nomographs are based upon the capacity 10 manual, I went directly to the capacity manual and we 11 went through all of the computations. In addition, I 12 went to the traffic counts that I had conducted and was 13 part of my summary to determine the peak hour factor 14 which worked out to be approximately point nine. Based 15 on the computations, and I will leave the information 16 with the Board for a rural intersection, wasn't 17 exactly in accordance with Mr. Nelson's analysis. We 18 would up with a capacity of 28 per cent greater than Mr. 19 Nelson.

Some 591 vehicles for example, from the approach of 1-E, the easterly approach of County Route 537, as he runs it.

> MR. FRIZELL: Do I understand that transposition is in error that he

made?



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A We have to go back to the nomographs. I went directly to the capacity manual. I leave this with the Board and there is an explanation of the capacity manual contained therein.

There are stipulations on rural conditions which 6 basically, I will point out that all of the capacity 7 information and statistical information, the manual is 8 based upon studies taken between 1955 and 1956. The 9 manual further states that few data was obtained from 10 the rural locations during the 1955 - 1956 studies. 11 Basically, that is the interpretation, and they give 12 some latitude when the peak hour factor approaches, one 13 multiplies the capacity by 1.4. The normal peak hour 14 factor being .7, since we have .9, we use 1.2, which gave 15 us a 28 per cent increase in capacity over what Mr. 16 Nelson had computed in his nomograph analysis.

Q He used his precise analysis and you said it was 28 per cent off in terms of capacity? A I used the actual manual. I didn't use the nomograph charts, which are based on the manual itself by Jack Leesh (phonetic) a number of years ago to simplify the procedures in computing the capacity.

Obviously, when you look at the chart and there is a diagram between one thousand and fifteen hundred, you are interpolating. I can't go back and relate the sam

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scales Mr. Nelson did. I went directly to the computations.

2 Then are you saying that the capacity manual Q 3 itself would repute Mr. Nelson that the studies were 4 done on cars all the way through the 1960's? 5 Yes, it would. As a matter of fact, when I was at A 6 Yale University, L.K. Norman dedicated, who is, in effect, 7 the father and lecturer. I am very familiar with the 8 data that was in the manual and it was actually supposed 9 to come out in 1962 except it took three additional years 10 to edit. There was no additional data taken from that 11 period. 12 And you have a copy of it for the Board? Q 13 I have a copy. This is my copy of the excerpts in A 14 the capacity manual. If you want, I'll leave it here 15 until next week. If you want to look through the capacity 16 manual. 17 Would you just describe briefly what Q 18 the capacity analysis did tell us? 19 Mr. Nelson's capacity and analysis is based upon A 20 basically, what is termed a three time signal. That 21 is one that runs through the same cycle length and 22 allocates the percentage of green. It does not fluctuate 23 with the demand. The analysis that he has done that 24 we have ached through utilization of the manual, is, in 25 fact, the main reason why the capacity manual is undergoin

1 a change right now. 2 The critical lane analysis is the analysis more 3 appropriately, that can be used when a signal is able to 4 fluctuate. It is green time to meet the demand of traffic 5. as registered on vehicular detectors. 6 On that point, Mr. Ney, would you just tell Q 7 the Board again what type of signal this is at that 8 intersection? 9 This is a fully actuated traffic signal with a A 10 maximum cycle of 160 seconds. Not a fixed cycle of 11 160 seconds. There is a minimum of green time as Mr. 12 Nelson ordered, 25 seconds to each approach, which means 13 if a vehicle actuates the signal, one car at 537 at 11:00 14 p.m., that when the green shifts from Route 34 to 537, 15 no other vehicle proceeds through the intersection for 16 25 seconds of green and they rest on that phase. Then 17 they will be back to Route 34 the vehicle waits there. 18 It is a maximum extension of 78 seconds as 19 vehicles are reported passing over. 20 Q Was Mr. Nelson generally correct when he 21 said the State designed more than 50 per cent of the time 22 to the intersecting streets as opposed to the State 23 highways? 24 Absolutely. There are very, very few instances where A 25 the State has given anything close to 50 per cent on major

	Ney - direct PAGE 218
1	arterial systems.
2	Q Does that particular intersection currently
3	deviate from that general standard?
4	A Yes, it is one of the few fully actuated traffic
5	signals on a State highway system in New Jersey.
6	MR. BRENNAN: You could get more
7	than 50 per cent of the cycle time on 537?
8	THE WITNESS: Yes, in the absence
9	of an equal demand on Route 34, yes. If
10	the demand is equal, then it will fluctuate
11	fifty-fifty, and if there is more demand
12	on 537, as long as the Route 34 maximum
13	doesn't extend out, then it will go to the
14	maximum number for 537.
15	Q Mr. Nelson also appears to have a different
16	observation from your own, Mr. Ney, in terms of a cueing.
17	He said, that fifteen out of twenty-eight cycles that
18	he observed, cars had twenty-eight on more than one cycle.
19	There were a few threes, and a few twos, as I recall his
20 21	testimony.
21	Can you explain that different observation?
23	A Itiz quite true. I can't. There is a problem
23 24	with that. Actually, I wasn't there when Mr. Nelson was.
24	On a day-to-day traffic, conditions will fluctuate, but
~	there really are very few places along 537 that you can sit

1 and watch the cue form on 537, or Route 34. The most 2 convenient place is the vacant corner where trucks park. 3 I guess it's the southeast corner. If you want to look at 4 the easterly approach, you have to sit in the school parking 5 lot. I have been in the cue of traffic already, which 6 extends past the curve. 7 Now, obviously, if it stacks that far on such 8 occasions, to see that you have to park up at the end 9 of the school and you can't see the signal, and you don't 10 know whether the guy has made it. I don't know how he 11 made the observation. I can't argue whether they are 12 right or wrong. 13 MR. MARKS: Did you make a 14 cueing study? 15 THE WITNESS: Yes, I did. 16 MR. MARKS: When did you conduct 17 1t? 18 THE WITNESS: When I made the 19 original study, Mr. Marks. 20 MR. MARKS: Was it labeled a 21 cueing study? 22 THE WITNESS: I testified that 23 on no occasion during my observation that 24 vehicles failed to clear the signal. 25 MR. MARKS: Did you label the

	Ney - direct	PAGE 220
1		cueing study?
2		THE WITNESS: I will if you want
3		me to.
4		
5		MR. MARKS: You are changing the
6		nature of it.
-		THE WITNESS: No, I'm not changing
7		anything. I testified at the original
8		hearing, if you look at the tapes.
9		THE CHAIRMAN: I just have one
10		question that is of interest to me.
11		I know where Creamory Road 1s.
12		You just told us on one traffic change you
13		cleared from Creamory Road through the
14		intersection.
15		THE WITNESS: Just about that, yes.
16		If I can explain what I'm saying.
17		Approaching vehicles are slowly
18		reducing speed as you approach Creamory
1 9		Road and the curve, and you get to the school.
20		I have been back to the point where I can't
21		
22		see the traffic light. I don't know if it's
		green or red. When the cue is moved, I've
23		cleared the intersection, not once, but many
24		times, because I use 537 many, many times.
25		I live off 537.

1	THE CHAIRMAN: You would estimate
2	how many cars, normal size vehicles?
3	THE WITNESS: I would estimate that
4	would be in excess of twenty vehicles,
5	perhaps thirty vehicles, as I indicated, I
6	
7	have to go back in my notes. I've counted as
8	many as 28, 22 vehicles clearing the cycle
9	on 537 during my personal traffic count.
-	MR. FRIZELL: Is that abnormal
10	green time?
11	THE WITNESS: Green or 78 seconds
12	of green is once vehicles get rolling the
13	headway figure is about 2.1 per vehicle.
14	Theoretically, any absence of left turn
15	conflicts where traffic could slow down
16	could get about 39 vehicles in 78 seconds.
17	BY MR. FRIZELL:
18	Q Mr. Ney, Mr. Nelson also testified about
19	the potential for putting higher density uses on the
20	eastern end of Route 537. Did you take any time to analyze
21	
22	that?
23	A Yes, sir.
24	Q What was the result of that analysis?
	A I looked specifically at the Monmouth County
25	m i and a the second which had all a second at a Nam

Topic Study for the areas which basically consist of New

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1 Shrewsbury and areas to the east of Colts Neck. The 2 intersection of Swimming River Road and 537, which is the 3 intersection that was mentioned, as being convenient was 4 recommended for improvement because of its critical 5 capacity and its safety problems in the year 1973. 6 Obviously, the program hadn't been implemented, but the 7 study was done in '69 and '70 and at that time for 8 improvement.

⁹ The intersection of Water Street and Sycamore
¹⁰ Avenue and Tinton Avenue, was recommended for
¹¹ improvement on the topic study. Again, I believe it was
¹² in '73.

Q Is that the immediate vicinity that you
refer to?

15 Yes, sir, it is. On the border of Colts Neck 16 and Tinton Falls. The intersection of Tinton Avenue and 17 Wayside Road was recommended for improvement that has been 18 approved by the County. In addition, Tinton Avenue is 19 scheduled for improvement by the County and when, it's 20 indefinite. From Swimming River Road all the way down 21 through the Ecom Building through Fort Monmouth, including 22 the intersection, and the improvements of Hope Road, 23 and all of the areas of the County roads that those roads 24 are alluded to disburse traffic. That's the report 25 read by the Planning Board. All of them have severe

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capacity constraints at their intersections. Many of the improvements have started to be made that was due in the early seventies. That was recently the improved intersections of Sycamore Avenue and Shrewsbury Avenue. There was also some improvement on Route 35 at Sycamore Avenue. Sycamore Avenue is identified as being over capacity.

What I'm saying basically, is the roads in the 9 area that are suggested, don't always exhibit severe 10 capacity constraints, and the real problem I have is one 11 road will lead anywhere in terms of major arterials. 12 The best place to get to Route 34 to the north because 13 you don't want to go north on Route 35, your nearest 14 Parkway interchange is either through Five Corners and 15 Lincroft, and you have to go to 109, or back to 106. 16 I believe, or whatever, to 105, and at Route 36 and the 17 Parkway Spur.

So, that from an overall access circumvention standpoint, you have to get, in effect, northerly, through Lincroft or easterly through the congested areas that I've just mentioned, to get to major arterials.

Route 35 is not a major arterial in this area to service regional traffic because you have to go through Red Bank.

MR. FRIZELL: Excuse me, Mr.



	Ney - direct	PAGE 224
1		Sagotsky, can we mark that as the Master
2		Plan of the Borough of Tinton Falls.
3		It contains numerous maps and talks about
4		traffic.
5 ,		MR. SAGOTSKY: A-58.
6		(Whereupon, Master Plan for the
7		Borough of Tinton Falls is received and
8	·	marked A-58 for identification.)
9		MR. SAGOTSKY: For identification.
10		MR. FRIZELL: I'm moving that,
11		Mr. Sagotsky. I move my evidence consistently
12	•	and I'm not offering anything for
13		identification.
14		MR. SAGOTSKY: I will accept it
15		for identification for the reasons I once
16		told you and we once argued about, that
17		and did tell you if it came to a map and
18	•	you showed it, all right. Anything else,
19		unless the Board is aware of it, its
20		contents, I'm just accepting it as a
21		recommendation to the Board for identification.
22	BY MR. FRIZEL	L:
23	Q	Mr. Ney, based on the fact, do you recall
24	or form any c	onclusions, whether or not you felt this
25	general area	was compatible for these high density forms

1 of use in residential use? In terms of its traffic 2 capacity and overall ability to provide the future 3 residents with a means of access to and from jobs, 4 transportation service entrances. 5 Which, in this general area? A 6 a The areas you've referred along Route 537. 7 A As far as this type of development complex, I 8 do not feel that that area meets the normal requirements 9 of access and circulation for more intense development. 10 I pointed out, I took a lot of time in reading this. 11 THE CHAIRMAN: How do you feel 12 about the proposed site? 13 THE WITNESS: As I indicated 14 by comparison, the proposed site has 15 excellent regional access because it is a 16 north-south arterial on Route 34. It also 17 has an east-west arterial with Route 18. 18 Which is a limited access freeway. 19 Finally, it has a neighborhood 20 which is sub-regional and a County-wide 21 access through 537, which again is an east-22 west roadway. I don't know if the Board 23 remembers, but I had maps prepared showing 24 this site in relationship to the surrounding 25 highway employment regions.

,	Ney - direct 226
1	I had based it on the distribution
2	of employment as studied by the Monmouth
3	County Planning Board and it worked out a
5	distribution of traffic. A point of fact,
6	the main distribution is north and west
7	because the north Jersey amployment centers
8	over the Raritan and industrial centers,
9	have the same type of location to the west
10	of when you use Route 18 to get to 287 in that
11	area. The easterly area of Monmouth County,
12	the Planning Board study in the southern
13	area, were not intense employment centers.
14	BY MR. FRIZELL:
14 15	Q Mr. Ney, you weren't here, but I did speak
16	to somebody in your office on this. Mr. Alaimo testified
17	on the record here that the private small sewer system
18	for the public. Do you have any information to the
19	Board of Public Utility contradicting that testimony?
20	A We spoke to a Mrs. Lucy Hermanez at the Board of
21	Public Utilities. She was an analyst and obtained a
22	rate for three developments. I have listed as Sun Bird,
23	which is \$46 per quarter. High Ridge, which was \$25 per
24	month, and Birch Hill Park, which was \$198 a year. These are the rates she gave us. They're all in Burlington
25	County.

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	Ney - direct	227
1		MR. MARKS: I'm going to object to
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3		it. This witness didn't gather it first hand.
4		I believe it came in good faith, but they
5		are interconnections. Did you get her phone
		number, by the way?
6		THE WITNESS: No.
7		MR. MARKS: You didn't talk to her?
8		THE WITNESS: I was out.
9		MR. FRIZELL: I submit, anybody
10		can call the Board of Public Utilities and
11		
12		possibly get the same assumption.
13	-	THE CHAIRMAN: I think we can
14		accept that on the basis of what you
		submitted.
15		MR. FRIZELL: I think as you're
16		saying, you have to understand Alaimo's
17		testimony was more extensive. We're using
18		that as an example and what I'm saying, you
19		can check with the Board of Public Utilities.
20		MR. MARKS: That's not the function
21		
22		of this Board.
23		MR. FRIZELL: I understand that.
24		That was testimony from that side of the
		evidence. I didn't ask for it. That's where
25		it came from. The Public Utilities said

	Ney - direct 228
1	\$46 a year for the same development.
2	He said 500 a year. And actually, it was
3	\$180 a year.
4	BY MR. FRIZELL:
5	Q I do have one question. The traffic
6	impact on the elementary school, could you tell in your
7	opinion what it involved?
8	A Well, that's under the assumption if there was a
9	noise problem. You may have the double pane windows
10	or if there was a noise problem, I'm not prepared that
11	it would or wouldn't be. I did not make that type of
12	study. I mitigate that there were some noises.
13	There is a question as to the parking lot and that
14	additional parking would have to be provided to compensate
15	for that which are lost. That's what I would have
16	intended.
17	Q Well, one other question on the same idea.
18	They said something about they were short of spaces
19	for parking. If you widened the streets, do you have
20	any opinion whether that could be involved?
21	A As I stated, there would be a taking from the
22	parking lot and it would have to be made up with
23	additional parking.
24	THE CHAIRMAN: I think Mr. Nolan
25	has already testified they really can't

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afford any land to expand the taking of any parking lots. As a minuscule playground as it is right now. He also did testify there is a real noise pollution problem from 537 as it now exists.

THE WITNESS: Just on the parking end. I have not done an analysis which might be possible by looking at vehicles there to see whether a reallignment of parking based upon the compact car and a full size car mix might increase the efficiency of the lot something like that.

Obviously, if they were a key problem, then widening would have to take place on the other side. The only point I would make is that at any time, whether it is a County project at a later date maybe ten years from now, or the development in the area causes traffic to cause intersection widening, that would be a consideration. That would have to be made at some point in time.

MR. FRIZELL: Let me include an argument on the same point. As I recall his testimony, he said, this project, which

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on a full pack of \$50,000 per annum, excuse me, on a \$50,000 average sale price per unit, if you then take the latter from the information from the architect about sales prices in an area when bought, the package would be \$90,000 for the unit, 99 cents of County school taxes against that, and come up with a \$400 surplus to the School Board for this development.

MR. SAGOTSKY: In light of what you just said, didn't you just say that would generate \$100,000 and that could be equal to \$100,000 in the local --

MR. FRIZELL: \$400 for your surplus at full build-out because that is the break even point.

MR. MARKS: Mr. Ney, how come you didn't consider the traffic coming from the shopping center on the corner of 537 and 34?

THE WITNESS: For two reasons. One of which I'm not sure they'll ever be built. Secondly, the shopping center itself would really crowd this development. I know the reason it hasn't been built,

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2	because overlooking this feeling it didn't
3	have the population to support or to generate
4	any traffic. Again, a shopping center
5	we would have to look at individual
6	units per se, and I was concerned by any
7	driveway activity.
8	MR. MARKS: Don't you think
9	the other traffic is going to come from
10	other areas of the Town to get to the
11	shopping center?
12	THE WITNESS: Some, yes.
13	MR. MARKS: You mean more than
14	from this proposed development?
15	THE WITNESS: Oh, certainly,
16	yes, I also pointed out that
17	MR. MARKS: So you have
18	considered some of the traffic going into
19	that intersection?
20	THE WITNESS: From the shopping
21	center?
22	MR. MARKS: Sure, being
23	generated by the shopping center.
24	THE WITNESS: I will answer
25	the impact no. I think I considered it
	otherwise.

	Ney - direct	PAGE 231
1		MR. MARKS: You said that
2		project is in excellent north-south
3		access; is that correct?
4		THE WITNESS: Yes.
5		MR. MARKS: You consider it an
6		excellent north-south access to travel
7		south on Route 34 and all the way down to
8		the Collingswood Circle, five miles down and
9		five miles back up again. The industrial
10		area, is that an excellent north-south
11		access?
12		THE WITNESS: What are we
13		talking about?
14		MR. MARKS: To the industrial
15		area.
16		THE WITNESS: I'm not talking
17		about an industrial area, I'm talking about
18		residential area. I indicated that in
19		my opinion
20		MR. MARKS: You want to change?
21		THE WITNESS: I'm not changing
22		anything.
23		MR. MARKS: It's an excellent
24		access, north and south access, for the
25		industrial area? Is it an excellent north-

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south access for an industrial area?

THE WITNESS: For industrial areas when the highway development access is provided, yes, it will be. Under current conditions, as I indicated, I don't feel that area will develop for quite some time. When it does, it will need the construction of a jug-handle and a signal at the entrance to the Earle Naval Base. Once it has that, we'll have excellent access.

MR. MARKS: You told us that no one knows when it will be built?

THE WITNESS: Yes, that's correct. If it isn't, then it will not have excellent access. None of these commercial areas zoned in the Township will have excellent access.

MR. MARKS: Do you consider excellent access to be cars coming down Route 34 south and trying to get into the project and they would have to go on 18 on the access way and then on the exit way in order to turn north?

THE WITNESS: I don't follow you

	Ney - direct	PAGE
1	NGY - direct	233 NR MARKEL Veren to not take
2		MR. MARKS: Henry, to get into
3		the townhouse commercial industry areas
4		from 34 south, you have to get on 18; do
5		you not?
6	:	THE WITNESS: Coming on 34 south,
7		no. You make a right turn into the property.
8		MR. MARKS: That's not what
9		I said. I said traffic on 34 south.
10		THE WITNESS: On 34 south you make
11		a left turn on Route 537, which is the way
12		I was contemplating.
13		If you're talking about strictly
13		the industrial and commercial area
14		MR.MARKS: I'm talking about
		the townhouse area.
16		THE WITNESS: I'm saying that is
17		how you get access to 1t.
18		MR. MARKS: Knowing that you
19		come down Route 34 south?
20		THE WITNESS: That isn't what
21		you asked me. You asked me how someone
22		coming from the north on Route 34 south
23	<i>.</i> .	would enter the property. Our analysis
24		in which jobs are constructed, which I felt
25	-	was highly positive recommendation on the

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developer when he first came in with the plan, I suggested that roadway be placed on the map in conformance with the Colts Neck Master Plan, because as the commercial areas are developed on Route 34 it would be an excellent secondary access. Until that is built, traffic in the residential portion of this development will do so from Route 34 south, left turn on 537, and a right turn into the property. MR. MARKS: So you're saying no traffic coming on Route 34 south will attempt to go on Route 34 north; is that correct? THE WITNESS: No, some people may find it more convenient to move through the interchange twice. I assume in our analysis, which is a more conservative approach, obviously it disburses less of an impact on the left turn. MR. MARKS: What you mean is double or nothing? THE WITNESS: In a sense, yes. All the numbers simply mean you have

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assigned traffic by the shortest, fastest travel time route.

MR. MARKS: I have no further questions.

MR. HERMAN: Mr. Ney, you mentioned about the proposed shopping center on the corner of 537 and 34, and I think you hypothesized the reason it hasn't been developed is an insufficient demand; is that correct?

THE WITNESS: Yes, sir.

MR. HERMAN: Would you be surprised if I told you that I tried on a first-hand basis to make a deal with the person that presently owns the land lease there and the real reason is not inadequate demand, but rather outrageous terms asked by the holder of the land lease.

THE WITNESS: I don't agree with that.

MR. FRIZELL: I don't agree with that either.

THE WITNESS: The reason I don't agree with that is that I assisted in two marketing studies by major supermarkets.

The reason that the developer may have asked outrageous terms, I don't know who you represent. You represent the supermarket, I'm sure his terms would be something you couldn't beat because he has to amortize expensive off-site drainage costs. In order to do so, if just one user wants it, it is too heavy a cost for the user to come in and say he needs the supermarket, which will allow him to speculate on the remaining smaller tenants.

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MR. HERMAN: It is sufficient to say if it was not a supermarket, someone who had a legitimate commercial interest there and the price was too high, the fact that the owner of the land lease doesn't own the fee, complicates development of that property?

In your traffic calculation, did you contemplate the expansion of the Bell Labs in Holmdel or in Middletown or any other major proposed in approved tracts in coming up with your traffic data?

THE WITNESS: Not when I originally did the study. However, I did do

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1 the traffic study for the Bell Labs complex 2 in Middletown and also the study included in Holmdel the predominant influence of 3 4 that traffic will be on 34 and Phalanx 5 Road. I did run an average through the 6 intersection and they would not have a 7 dramatic impact. 8 MR. HERMAN: What's the percentage 9 of increase on Highway 34? 10 THE WITNESS: It is not a 11 percentage increase. 34 comes up from the 12 south and it was in the range of 3 per cent. 13 There was about 2 per cent, 2 to 3 per cent, 14 utilizing 537 proceeding north. I think 15 that the total on Phalanx Road, and 16 between Swimming River Road and Phalanx 17 Road was 19 per cent. I think Swimming 18 River was like twelve, by the way, it was 19 about 7 per cent. 20 MR. HERMAN: All those figures 21 are the result of Bell Labs in Holmdel? 22 THE WITNESS: No, the Bell Labs 23 in Middletown. The Holmdel analysis was 24 similar. We both did similar analysis. 25 MR. HERMAN: That was 2 per cent,

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	and it would be 4 per cent for both.
	THE WITNESS: That's not an
	increase. That is vehicular movement. That
	is not an increase in traffic.
	MR. HERMAN: But the approximate
	figures you gave potentially it could be
	twice.
	THE WITNESS: Yes, sir. That's
	correct.
	MR. HERMAN: I have nothing
	further.
	THE CHAIRMAN: Any questions
	from members of the Board?
	MR. TISCHENDORF: Mr. Ney, you
	gave us the work sheets and 8 per cent you
	gave us.
	THE WITNESS: I didn't make a
	lot of copies.
	THE CHAIRMAN: Did you find
•	any figures on your original report
	inaccurate, Mr. Ney?
	THE WITNESS: Yes, I did. I
	found that heading on page I don't
	remember the number. The traffic
	eastbound and westbound should be reverse.

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However, on the analysis sheet based upon what the critical lane analysis was done, all the numbers relate to the approach. I reversed these and really -- my notes are for my own use and I also found that I added wrong. In fact, you can reduce my peak hour on Route 537 by about 100 vehicles. It was the critical lane so it does not change the results.

MR. FRIZELL: You are not going to submit that?

THE WITNESS: I initially wasn't. This is one of the sheets that I gave to you and Mr. Festler took a copy and asked for more. I made more.

I now have a copy of the peak hour factors, which shows about .9. Also, the comparison capacity chart would be looking at the outline in red here.

MR. HERMAN: Mr. Chairman, before the meeting breaks up, having already received Mr. Frizell's consent, I would like permission to address you at seven o'clock, on Monday, with a summation, rather than keep everyone here now.



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-	THE CHAIRMAN: Fine, that's granted,
2	with Mr. Frizell's consent.
3	MR. SAGOTSKY: I have one
4	comment.
5	The access to 24 acres south of
6	Route 18 where the sewer work is to be
7	located as part of the Orgo site, the
8	State of New Jersey, has informed me that
9	the verdict taken before Judge Yaccarino,
10	they will take it up to the Appellate
11	Division.
12	MR. BRENNAN: What was the
13	verdict?
14	MR. SAGOTSKY: Judge Yaccarino
15	sometime in June decided the Orgo people
16	did have access to that tract of about 24
17	acres south of Route 18, which was land locked
18	because the State had purchased certain
19	surrounding areas that were paid for.
20	I did have occasion to read the briefs.
21	Then Judge Yaccarino decided in favor of the
22	Applicant that the State had to furnish
23	access. The State has informed me that
24	they will definitely take an appeal from
25	that decision to the Appellate Court.

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		I just wanted to note that.
	2	MR. MARKS: Just one further
	3	point. I just want to object to the
	4	lease cost analysis. I had an opportunity
	5	
	6	to review it and it goes as part of the argument.
	7	I have no problem with it. It's not
	8	evidential. It is interlaced with figures
	9	and opinions.
	10	(Whereupon, the within hearing
		terminated.)
	11	* * *
	12	
	13	CERTIFICATE
	14	I, STEVEN R. TAYLOR, a Shorthand Reporter
	15	
	16	and Notary Public of the State of New Jersey, hereby
	17	certify the foregoing to be a true and accurate transcript
	18	of the proceedings as taken stenographically by me on the
	19	date and place hereinbefore set forth.
	20	
	21	STEVEN R. TAYLOR
		Notary Public of New Jersey
·	22	My commission expires
	23	July, 1981.
	24	
	25	