

**PERTINENT  
CORRESPONDENCE**

NAPEN-R

28 JUN 1979

Mr. Gerald M. Hansler, Executive Director  
Delaware River Basin Commission  
P.O. Box 7360  
West Trenton, N. J. 08628

Dear Mr. Hansler:

Submitted herewith is an advance copy of the Delaware River Basin Study Reconnaissance Report containing the results of the Stage I planning effort. Your review and comments would be appreciated.

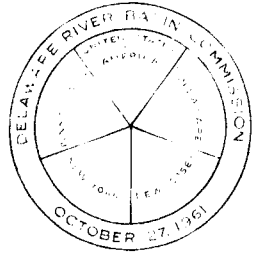
The report defines the scope of the study as the formulation and evaluation of alternative flood damage reduction programs for the main stem of the Delaware River in the reach that would have been afforded a degree of protection by the Tocks Island Lake Project. It is requested that your agency furnish a letter verifying the scope of the study. The letter will then be included in the report.

Our schedule for submission of the report to higher authority for approval is mid-July 1979. Receipt of your letter verifying the scope of the study in time to meet our scheduled submission date would be appreciated.

Sincerely,

1 Incl  
As stated

D. J. SHERIDAN  
Acting Chief, Engineering Division



GERALD M. HANSLER  
EXECUTIVE DIRECTOR

DELAWARE RIVER BASIN COMMISSION  
P. O. BOX 7360  
WEST TRENTON, NEW JERSEY 08628  
(609) 883-9500

HEADQUARTERS LOCATION  
25 STATE POLICE DRIVE  
WEST TRENTON, N. J.

July 6, 1979

Mr. D. J. Sheridan  
Acting Chief, Engineering Division  
Philadelphia District  
Corps of Engineers  
Custom House - Second and Chestnut Streets  
Philadelphia, Pennsylvania 19106

Dear Mr. <sup>Jade</sup> Sheridan:

Re: NAPEN-R  
June 28, 1979

We have reviewed your advance copy of the Delaware River Basin Study Reconnaissance Report containing the results of your Stage I planning effort to formulate and evaluate alternative flood damage reduction programs for the main stem of the Delaware River from Tocks Island to Burlington, New Jersey.

We concur with the scope of the study as contained in the Reconnaissance Report and agree that the planning objectives and major study tasks proposed for Stages II and III, when completed, will meet the study objectives requested by this Commission.

Attachment 1, enclosed herewith, contains some specific comments and suggestions regarding the report.

We look forward to further coordination with you on the next phases of the study.

Sincerely,

Gerald M. Hansler

Enclosure

DRBC Comments on Delaware River Basin Study  
Reconnaissance Report - Philadelphia District,  
Corps of Engineers - July 1979

Page 7, Paragraph No. 3

Since the DRBC has far broader authority than indicated in the first three sentences of this paragraph, revise to read as follows:

3. With the Delaware River Basin Commission (DRBC).  
The DRBC was established in 1961 by interstate-federal Compact with concurrent legislation from Congress and New York, New Jersey, Pennsylvania and Delaware. The five DRBC commissioners are the governors of those four states and the Secretary of the Interior. The DRBC is charged with planning, development, management and protection of the water resources of the four-state river system, including all of its tributaries.

Page 10, 4th line

After "Bear Creek" add (renamed Francis E. Walter).

Page 11, 1st full paragraph, 6th line

Delete the words, "was the primary consideration which"

Page 15, 1st line

Change "Bay" to "Estuary".

Page 27

The last part of the last sentence is missing.

Page 60, 1st full paragraph

This appears to repeat statements in the previous paragraph.

NAPHE-P

14 OCT 1982

Mr. Robert L. Goodell  
Delaware River Basin Commission  
P.O. Box 7360  
West Trenton, NJ 08628

Dear Mr. Goodell:

We are completing the second stage of our Delaware River Basin Study at the present time. Our intention is to coordinate this work with you following its completion. It is anticipated that this should take place during November.

In general, our inventory has encountered more units than was reported in House Document 522. However, this does not necessarily imply a general trend of new development; in fact, most of the structures appeared of a pre-1955 vintage. We attribute some of the differences to some new construction in the flood plain between the limits of the 100-year and 1955 floods but most of the difference probably lies in the fact that not all units were included in the 1955/1958 inventory. The 1955/1958 inventory concentrated its efforts to high-damage areas where significant average annual damages were expected and projects contemplated.

I am inclosing some preliminary data which summarizes our inventory of flood prone structures. At this time, we intend this for your use. Until the information has been completed and analyzed, we ask that it is not made public.

If you have any questions or wish to discuss this further, do not hesitate to call me or Paul Gaudini, directly.

Sincerely,

1 Incl  
As stated

NICHOLAS J. BARRIERI, P.E.  
Chief, Planning/Engineering Division

KAPDN-F

Mr. Robert Goodell  
Delaware River Basin Commission  
P. O. Box 7366  
West Trenton, NJ 02628

29 OCT 1982

Dear Bob:

As I reported to you in my letter dated 14 October 1982, we are completing the second stage of our Delaware River Basin Study. At this time, we wish to coordinate our findings to date as well as the direction of the remainder of the study.

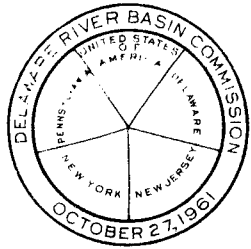
I am inclosing copies of a working notebook containing a preliminary draft of our findings. The purpose of this notebook is for your working level review and as a basis for discussion. The information has not undergone a complete review and, therefore, not appropriate for general use.

If your schedule permits, we wish to schedule a meeting in early November. Paul Gaudini will be available to address any questions or provide additional information which you or your staff may require.

Sincerely,

2 Incl (Dupe)  
As stated

NICKLAS J. BARLEPI, P.E.  
Chief, Planning/Engineering Division



GERALD M. HANSLER  
EXECUTIVE DIRECTOR

DELAWARE RIVER BASIN COMMISSION  
P. O. BOX 7360  
WEST TRENTON, NEW JERSEY 08628  
(609) 883-9500

HEADQUARTERS LOCATION  
25 STATE POLICE DRIVE  
WEST TRENTON, N. J.

December 20, 1982

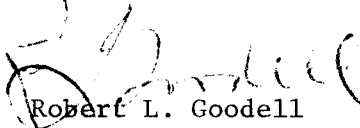
Mr. Paul Gaudini  
U.S. Army Corps of Engineers  
2nd and Chestnut Streets  
Custom House  
Philadelphia, Pennsylvania 19106

Dear Mr. Gaudini:

Your visit with Dan Price and Gary Rohn to my office last week was informative since it gave me and my staff the opportunity to learn in detail the progress of your work on the Phase II - Delaware River Basin Study. As we discussed, I believe it necessary to incorporate by appropriate reference into your report the Commission's Flood Plain Regulations, a copy of which you now have. For your information, I am also enclosing copies of the Commission's Water Conservation Management Plan and the draft report on the Good Faith Recommendations of the Parties to the U.S. Supreme Court.

As part of our review of your Phase II study notebook, I am sending separately to you one of your report copies which has been reviewed for typographical and other related errors. Overall, your report represents a very detailed study effort which has updated in several areas information required to effectively analyze the impact of floods in this basin. We look forward to working with you toward the completion of the final report and the hope that your extensive study effort will lead to some program for implementation to ameliorate the flood threat in the study area.

Sincerely,

  
Robert L. Goodell  
Chief Engineer

Enclosures

APR 04 1984

Planning Branch

Mr. Gerald M. Hansler, Executive Director  
Delaware River Basin Commission  
P.O. Box 7360  
West Trenton, New Jersey 08628

Dear Mr. Hansler:

This is in reference to our ongoing flood control study of the main stem of the Delaware River, the Delaware River Basin Study. As was discussed with members of your staff at a meeting on March 2, 1984 we have identified twelve municipalities for which nonstructural flood control measures appear to be economically justified.

The governing officials of each of these municipalities have been contacted by letter, copy enclosed, and asked whether they are interested in sponsoring further investigation of the nonstructural measures in their communities. The counties within which they are located have also been contacted, copy enclosed, and advised of our findings.

We will keep you advised of the outcome of our contacts with these municipal and county governments.

Sincerely,

Signed by: S. J. BUCOLO

Nicholas J. Barbieri, PE  
Chief, Planning/Engineering Division

Enclosures



Planning Branch

JUL 30 1984

Mr. Gerald M. Hansler  
Executive Director  
Delaware River Basin Commission  
P. O. Box 7360  
West Trenton, New Jersey 08628

Dear Mr. Hansler:

This is to follow-up on my letter of April 4, 1984 concerning the Delaware River Basin Study and to advise you that we are preparing our final report on the study for transmittal to our higher authority.

The final report findings, conclusions and recommendations will be as contained in the draft report. Revised pages for the draft report were furnished to your office earlier for incorporation into your copies of the report. Along with other changes, those revised pages made appropriate reference to the Delaware River Basin Commission's Flood Plain Regulations as had been requested by your office.

As you are aware, this study made an extensive evaluation of alternative flood protection measures along the main stem Delaware River in the absence of the Tocks Island Lake project. It was found that none of the structural alternatives were economically justified and that nonstructural protective measures appeared to be economically justified for 12 municipalities along the main stem Delaware River.

As stated in my letter of April 4, 1984, the governing officials of those municipalities and the counties in which they are located had been contacted to determine their interest in sponsoring further studies. Our follow-up contacts with those officials have been completed. Only one community, Bristol Township, has expressed interest in acting as a non-Federal sponsor for further studies.

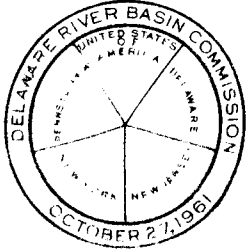
At a meeting earlier this year with Mr. Coriell and others of your staff, it was stated that the Delaware River Basin Commission does not presently have a program by which it could provide sponsorship for further studies.

Our final report on the study will contain a statement on the limited availability of non-Federal sponsorship for further studies. It will also make the recommendation that no further action be taken by the Corps of Engineers under the current Survey Authority and that any studies of nonstructural protective measures for Bristol Township or other communities that are willing and able to sponsor such studies be pursued under the Continuing Authorities program.

In accordance with our continuing mutual coordination effort on this study, your concurrence in this recommendation is requested.

Sincerely,

Nicholas J. Barbieri, PE  
Chief, Planning/Engineering Division



DELAWARE RIVER BASIN COMMISSION  
P. O. BOX 7360  
WEST TRENTON, NEW JERSEY 08628  
(609) 883-9500

GERALD M. HANSLER  
EXECUTIVE DIRECTOR

HEADQUARTERS LOCATION  
25 STATE POLICE DRIVE  
WEST TRENTON, N. J.

August 7, 1984

Mr. Nicholas Barbieri, PE  
Chief, Planning/Engineering Division  
U. S. Army Corps of Engineers  
Second and Chestnut Streets  
Philadelphia, Pennsylvania 19106

Dear Mr. Barbieri:

We have reviewed the final draft report for the Delaware River Basin Study. It is unfortunate that full funding to implement the recommendations are not available from Federal or non-Federal sponsors.

It seems due to the economic guidelines followed in the study that the 12 communities listed portray the worst areas susceptible to flood losses. We hope the full recommendations of the study will be implemented to reduce the impact of floods on these communities.

We concur with the results of this study. We also concur with your proposed recommendation that no further action be taken by the Corps of Engineers under the current Survey Authority and that any further studies of nonstructural protective measures be pursued under the Continuing Authorities program.

Sincerely,

Gerald M. Hansler

Planning Branch

MAR 21 1984

Mr. Kenneth L. Brewer, Jr.  
Chairman of Supervisors  
Lower Mt. Bethel Township  
Municipal Building  
Box 213R  
Martins Creek, Pennsylvania 18063

Dear Mr. Brewer:

This is in reference to the findings of our latest analysis of flooding problems along the main stem Delaware River. This study, which was authorized by Congress, examined flood damage reduction alternatives for the section of the river from Stroudsburg, Pennsylvania, to Burlington, New Jersey. That area would have been provided with a degree of flood protection from the deferred Tocks Island Lake project.

Our analyses to date indicate that it would be economically feasible to implement non-structural measures that would reduce the degree of potential flood damages in portions of several communities. Non-structural measures proposed for a portion of your community and the costs and benefits associated with those measures are described in enclosures 1 and 2. The areas of your community where those measures would be applied are shown on enclosure 3. Also furnished, as enclosure 4, is a booklet on floodproofing measures.

Further detailed studies remain to be done before any non-structural measures could be implemented. The best vehicle to conduct those further studies is under the Corps' Continuing Authorities Program. However, those studies will not be pursued unless a non-Federal entity can be identified that is interested in sponsoring further studies. That agency must be legally and financially capable of satisfying certain local cooperation requirements.

At present, reconnaissance phase and feasibility phase study costs are 100 percent Federal. However, cost-sharing arrangements included in legislation currently under consideration by Congress, when and if implemented, will provide for the detailed planning to be cost-shared equally with a non-Federal sponsor. Enclosures 5, 6 and 7 are provided for information purposes only on the proposed study cost-sharing arrangements.

If you are interested in seeing our studies of non-structural floodproofing measures for your community continue and are willing and able to act as a non-Federal sponsor, please so indicate within 30 days of the receipt of this letter. A formal application (such as shown on enclosure 5) is not needed at this time. However, we would require a letter stating that your community is interested in the Corps' plan for utilizing non-structural measures to reduce flood damages. Your letter should also state that the municipality is willing and able to sponsor further studies.

Should you have any questions or wish to arrange a meeting to discuss this matter further, please feel free to contact Mr. Daniel E. Price, Chief of Basin Planning at 215/597-4684.

Sincerely,

Nicholas J. Barbieri, P. E.  
Chief, Planning/Engineering Division

Enclosures

DELAWARE RIVER BASIN STUDY  
NON-STRUCTURAL FLOOD DAMAGE REDUCTION MEASURES  
DATA SHEET

NAME OF COMMUNITY: Lower Mount Bethel Township  
Northampton County, PA

REQUIRED PROTECTIVE MEASURES\* (FOR FURTHER DETAILS  
SEE ENCLOSURE 2): Minor Floodproof (1)  
Individual Floodwalls (4)  
Elevate (4)

\* NUMBERS IN PARENTHESIS INDICATES NUMBER OF STRUCTURES  
INVOLVED.

ESTIMATED INITIAL IMPLEMENTATION COST\* (MARCH 1983  
PRICE LEVEL) \$170,000

\* BASED ON IMPENDING LEGISLATION, NON-FEDERAL SHARE SHALL  
BE GREATER OF 35% OF TOTAL COSTS OR VALUE OF LANDS,  
EASEMENTS, RIGHTS-OF-WAY AND RELOCATIONS REQUIRED FOR  
PROJECT.

ESTIMATED AVERAGE ANNUAL COST  
(MARCH 1983 PRICE LEVEL) \$13,000

ESTIMATED AVERAGE ANNUAL FLOOD REDUCTION BENEFITS  
(MARCH 1983 PRICE LEVEL) \$24,000

BENEFIT/COST RATIO: 1.8

ESTIMATED PERCENT AVERAGE ANNUAL FLOOD DAMAGE REDUCTION: 20%

LEVEL OF PROTECTION: 17YEAR EVENT (THE INTERIORS OF ALL  
BUILDINGS WOULD BE PROTECTED AGAINST DAMAGE FROM ALL FLOODS  
OCCURRING MORE FREQUENTLY THAN THIS EVENT)

ENCLOSURE 1

Minor Floodproofing - Mostly applied to structures with brick or masonry walls which are prone to basement seepage problems or nuisance type flooding. Generally involves the use of sealants for exterior and interior walls, valves to prevent sewer backup, sump pumps, and other methods of floor pressure relief.

Major Floodproofing - Applicable to structures where the level of protection varies from the basement floor elevation to three feet above the first floor. This type of protection includes temporary and permanent closures and shields for doorways and windows, large pumps, and hydrostatic protection. Considerations include the physical feasibility of closing all openings below the selected level of protection, the impermeability of exterior walls, and whether the structure is capable of withstanding the anticipated hydrostatic pressure including buoyancy.

Individual Floodwalls - Applicable to structures where the level of protection rises from the Zero Damage Elevation (ZDE) to a maximum of four feet above the first floor. Floodwalls are considered when minor and major floodproofing cannot be applied because the hydrostatic pressure directly against the walls causes possible slab uplift, wall collapse, and/or flooding.

Elevate Structure - Selected for structures where the level of protection varies from three feet to seven feet above the first floor. Although any structure can be raised it is more appropriate for single and two-story frame structures on raised foundations as opposed to structures with slab on grade foundations or structures with basements. Structure elevation is selected when economic, hydrostatic and/or aesthetic conditions warrant it.

Buy - Applicable to structures where the level of protection exceeds seven feet above the first floor. Buying a structure at market value does not include costs associated with relocation, such as new land or the actual relocation activity.

SAMPLE: CONTINUING AUTHORITIES PROGRAM  
APPLICATION LETTER

(SPONSOR'S LETTERHEAD)

\_\_\_\_\_ (date)

District Engineer  
U. S. Army Engineer District, Philadelphia  
Custom House, 2d & Chestnut Streets  
Philadelphia, Pennsylvania 19106  
ATTN: NAPEN-P

Dear Sir:

In accordance with the provisions of Section 205 of the 1948 Flood Control Act, as amended which authorizes the Secretary of the Army to construct small projects for flood control and related purposes not specifically authorized by Congress, when in the opinion of the Chief of Engineers such work is advisable, the

\_\_\_\_\_  
(Sponsoring Agency)

hereby makes formal application for a study of

\_\_\_\_\_  
(Waterway, County, State)

The \_\_\_\_\_  
(Sponsoring Agency)

under authority contained in the Laws of \_\_\_\_\_  
(State)

\_\_\_\_\_ can and will provide the  
(cite pertinent statute)

following local cooperation and participation if studies indicate a project to be feasible.

We understand that this request implies a commitment on our part to participate in two types of cost sharing. The first of these involves study cost sharing and includes 50% of the costs for the Detailed Project Study. Of this 50% amount, up to one-half may be in the form of in-kind services.

ENCLOSURE 5



The second involves project cost sharing and shall be the greater of

- a. 35% of the total costs after the Detailed Project Study or
- b. the value of lands, easements, rights-of-way and relocations required for project construction.

Other specific requirements for consideration under Section 205 are to:

- (1) Hold and save the United States free from damages due to the construction, operation and maintenance of the project, except for damages due to the fault or negligence of the United States or its contractors;
- (2) Maintain and operate the project after completion in accordance with regulations prescribed by the Secretary of the Army;
- (3) Assume full responsibility for all project costs in excess of the Federal cost limitation, presently established as \$4,000,000;
- (4) Prevent future encroachment which might interfere with proper functioning of the project for flood control;
- (5) Contribute the local share of project construction costs, determined in accordance with existing policies for authorized projects, in view of recreational benefits, land enhancement benefits, or other special or local benefits expected to accrue;
- (6) Comply with applicable provisions of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P. L. 91-646) and implementing regulations; and
- (7) Execute assurance of compliance with Title VI of the Civil Rights Act of 1964 (P. L. 88-352).

Sincerely,

Date \_\_\_\_\_

\_\_\_\_\_  
Executive Officer of Sponsor

#### CERTIFICATION OF AUTHORITY

It is hereby certified that the \_\_\_\_\_ (local sponsor) \_\_\_\_\_ has the authority to comply with the items of local cooperation as set forth in this letter.

Date \_\_\_\_\_

\_\_\_\_\_  
Attorney or Chief Legal Officer of Sponsor

DEPARTMENT OF THE ARMY  
OFFICE OF THE CHIEF OF ENGINEERS

STATEMENT OF LT. GENERAL J.K. BRATTON  
CHIEF OF ENGINEERS  
U. S. ARMY CORPS OF ENGINEERS  
BEFORE THE SUBCOMMITTEE ON ENERGY AND WATER DEVELOPMENT  
COMMITTEE ON APPROPRIATIONS  
HOUSE OF REPRESENTATIVES  
ON THE FY 1985 CIVIL WORKS BUDGET

FEBRUARY 6, 1984

### Continuing Authorities Program

The Small Projects Program under Construction, General is designed for quick response in assisting local interests to solve their water problems. As Mr. Gianelli discussed, the program was restructured, and all the modified procedures are in place. These procedures provide a detailed and orderly process from the time a small flooding, beach erosion or navigation problem is identified. For example, our objective is to provide all planning funds to the District Engineer as soon as he requests them for both the reconnaissance and detailed project study phases, and for preparation of plans and specifications.

One other point. We reduced our FY 1983 backlog of small projects available for construction, utilizing funds from the FY 1983 Jobs Bill. In the aggregate, we completed, placed under construction, or scheduled for construction over 100 small projects utilizing about \$26 million of those funds. As a result, I believe that the \$36.7 million requested for FY 1985, up almost \$12 million from FY 1984, will be sufficient to provide a good continuing requirements for 12 of the FY 1983 and FY 1984 budgeted new construction starts that are on hold, pending FY 1984 Congressional action, and five commercial harbor projects for which additional engineering and design is continuing. Funding of the new construction starts reflects the cost sharing and financing proposals worked out between the local sponsors and the Department of the Army.

DEPARTMENT OF THE ARMY  
OFFICE OF THE ASSISTANT SECRETARY OF THE ARMY (CIVIL WORKS)

COMPLETE STATEMENT  
OF  
WILLIAM R. GIANELLI  
ASSISTANT SECRETARY OF THE ARMY (CIVIL WORKS)  
BEFORE THE SUBCOMMITTEE ON ENERGY AND WATER DEVELOPMENT  
COMMITTEE ON APPROPRIATIONS  
HOUSE OF REPRESENTATIVES  
ON THE FY 1985 CIVIL WORKS BUDGET

FEBRUARY 6, 1984

## XI. CONTINUING AUTHORITIES PROGRAM

General Bratton testified last year concerning efforts to restructure the Continuing Authorities Program. This has now been accomplished. The restructured program features a five-step process: (1) initial appraisal; (2) reconnaissance phase; (3) detailed planning phase; (4) plans and specifications; and (5) project implementation. The first two steps are to be accomplished at full Federal expense; the third step would be shared equally between the Corps and a non-Federal entity, and the last two would be shared on the same basis as a comparable, specifically authorized large project.

Management of the restructured Continuing Authorities Program is analogous to that of congressionally authorized studies and projects. The goal is the same: a more effective and efficient planning process and a more effective use of planning and construction funds.

We are requesting \$36.7 million in FY 1985 for new and/or continuing planning and construction under the six individual programs. These funds will allow the Corps to be responsive to the priority water needs of local communities.

ARMY CIVIL WORKS PROGRAM  
FY 1985 NEW STARTS PROGRAM SUMMARY: UPFRONT NON-FEDERAL FINANCING OBJECTIVES AND RECOMMENDATIONS

CATEGORY	NON-FEDERAL SHARE OF ASSIGNED FIRST COSTS (1)	ARMY RECOMMENDS THAT OMB (2)
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SMALL CONTINUING AUTHORITIES  
PROGRAM

Flood Control (Sections 205 and 208)....	35 percent or the value of lands, easements, rights-of-way and relo- cations required for project construc- tion, whichever is greater.	
Navigation (Section 107).....	100 percent, with 75 percent upfront.	
Beach Erosion (Section 103)..	50 percent upfront.	
Navigation Mitigation (Section 111).	No policy established.	
Emergency Work (Section 14)..	Same as traditional (lands, easements, and rights-of-way).	

## LIST OF PARTICIPATING LOCAL LETTER SIGNATURE TO EXHIBIT A-9

DELAWARE RIVER BASIN STUDY  
LOCAL INTERESTSPENNSYLVANIA

Ms. Carolyn Sabatini  
Chairman of Supervisors  
Bridgeton Township  
Upper Black Eddy Fire Hall  
Upper Black Eddy, PA 18972

Mr. Stanley Gawel  
Manager  
Bristol Borough Municipal Building  
Pond & Mulberry Streets  
Bristol, PA 19007

Mr. Robert Lewis, Jr.  
President of Commissioners  
Bristol Township  
Township Building  
2501 Oxford Valley Rd.  
Levittown, PA 19057

Mr. Kenneth L. Brewer, Jr.  
Chairman of Supervisors  
Lower Mt. Bethel Township  
Municipal Building Box 213R  
Martins Creek, PA 18063

Mr. Jay P. Snyder  
Mayor  
New Hope Borough  
Borough Hall  
41 N. Main Street  
New Hope, PA 18938

Mr. James B. Kiel, Jr.  
Chairman of Supervisors  
Plumstead Township  
P. O. Box 14  
Fountainville, PA 18923

Mr. Frank H. Lewis  
Chairman of Supervisors  
Tinicum Township  
R. D. 1, Box 326  
Pipersville, PA 18947

NEW JERSEY

Mr. Robert Breen  
Mayor  
Delanco Township  
Municipal Building  
Burlington Ave.  
Delanco, NJ 08075

Mr. John R. Rafferty  
Mayor  
Hamilton Township  
2090 Greenwood Avenue  
Trenton, NJ 08650

Mr. Arthur Schwarz  
Mayor  
Harmony Township  
R. D. 2, Box 155  
Phillipsburg, NJ 08865

Mr. John B. DiSarro  
Mayor  
Holland Township  
R. D. 1, Box 112A  
Church Road  
Milford, New Jersey 08848

Mr. Robert E. Renshaw  
Mayor  
Riverside Township  
P. O. Box 189  
Riverside, NJ 08075



DEPARTMENT OF THE ARMY  
 PHILADELPHIA DISTRICT, CORPS OF ENGINEERS  
 CUSTOM HOUSE-2 D & CHESTNUT STREETS  
 PHILADELPHIA, PENNSYLVANIA 19106

IN REPLY REFER TO  
 Planning Branch

APR 02 1984

Dr. Harold Colburn  
 Freeholder Director  
 Burlington County Office Building  
 49 Rancocas Road  
 Mount Holly, New Jersey 08060

Dear Dr. Colburn:

This is in reference to the findings of our latest analysis of flooding problems along the main stem Delaware River. This study, which was authorized by Congress, examined flood damage reduction alternatives for the section of the river from Stroudsburg, Pennsylvania, to Burlington, New Jersey. That area would have been provided with a degree of flood protection from the deferred Tocks Island Lake project.

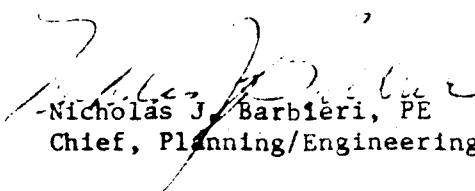
Our analyses to date indicate that it would be economically feasible to implement non-structural measures that would reduce the degree of potential flood damages in portions of several communities including two townships in Burlington County. They are Delanco Township and Riverside Township. Further detailed studies remain to be done before any non-structural measures could be implemented. The best vehicle to conduct those further studies is under the Corps' Continuing Authorities Program. However, those studies will not be pursued unless a non-Federal entity can be identified that is interested in sponsoring further studies.

This office has sent a letter to the Mayor of each of those townships informing them of our findings and asking for an indication of interest in sponsoring further studies. A copy of our letter to the Mayor, with all enclosures, is furnished for your information.

That letter with enclosures explains the type of non-structural measures involved and the associated costs and benefits. It also provides information on sponsorship requirements. If the Township should decline to sponsor further studies, the opportunity would be offered to the County.

Should you have questions or wish to arrange a meeting to discuss this letter further, please feel free to contact Mr. Daniel E. Price, Chief of Basin Planning at 215/597-4684.

Sincerely,

  
 -Nicholas J. Barbieri, PE  
 Chief, Planning/Engineering Division

Enclosures



LETTERS INVITED TO PARTICIPATE (A-1)

DELAWARE RIVER BASIN STUDY  
COUNTY OFFICIALS

PENNSYLVANIA

Mr. Carl Fonash  
Chairman of Commissioners  
Bucks County  
Administration Building  
Doylestown, Pennsylvania 18901

Mr. Eugene Hartzell,  
County Executive  
Northampton County  
Government Center  
7th & Walnut Streets  
Easton, Pennsylvania 18042

NEW JERSEY

Dr. Harold Colburn  
Freeholder Director  
Burlington County  
Burlington County Office Building  
49 Rancocas Road  
Mount Holly, New Jersey 08060

Mr. George D. Muller  
Freeholder Director  
Hunterdon County  
Administration Building  
Flemington, New Jersey 08822

Dr. William Klepper  
President of Board  
Mercer County  
Mercer County Administration Building  
P. O. Box 8068  
Trenton, New Jersey 08650

Mr. Charles Lee  
Freeholder Director  
Warren County  
Court House  
Belvidere, New Jersey 07823

# Township of Bristol

BUCKS COUNTY • PENNSYLVANIA



April 12, 1984

BOARD OF  
COMMISSIONERS

ROBERT LEWIS, JR.  
President  
4th WARD

ANTHONY J. MELIO  
Vice President  
9th WARD

CHASER J. COTUGNO  
1st WARD

MICHAEL J. SLIPP  
2nd WARD

ANTHONY GESUALDI  
3rd WARD

JENNIE CATTANI  
5th WARD

MARY LOU TANTUM  
6th WARD

ALBERT M. WURM  
7th WARD

ANNA ROGERS  
8th WARD

JAMES J. LAVELLE  
10th WARD

L. MARIE MASCIA  
11th WARD

STANLEY GAWEL  
Manager

CARMEN RADDI  
Deputy Manager

CLYDE W. WAITE  
Solicitor

EUGENE G. KEHOE  
Treasurer

Mr. Nicholas J. Barbieri, P.E.  
Chief, Planning/Engineering Division  
Department of the Army  
Philadelphia District, Corps of Engineers  
Custom House-2D & Chestnut Streets  
Philadelphia, PA 19106

Dear Mr. Barbieri:

Please be advised that the Board of Commissioners are much interested in seeing your studies of non-structural floodproofing measures for our community. We continue and are willing and able to act as a non-Federal Sponsor. We are also able to sponsor further studies as outlined in your letter and enclosures.

On behalf of the Board of Commissioners, thank you for your interest in our community.

Sincerely,

Stanley P. Gawel  
Township Manager

SPG/aw



DEPARTMENT OF THE ARMY  
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS  
CUSTOM HOUSE-2 D & CHESTNUT STREETS  
PHILADELPHIA, PENNSYLVANIA 19106

IN REPLY REFER TO

Planning Branch

Mr. Carl Fonash  
Chairman of Commissioners  
Bucks County  
Administration Building  
Doylestown, Pennsylvania 18901

Dear Mr. Fonash:

This is in reference to our April 2, 1984 letter regarding non-Federal sponsorship of further studies of flood damage reduction measures along the main stem Delaware River. In response to our letters to the officials of Bridgeton, Bristol, Plumstead and Tinicum Townships and to the officials of Bristol and New Hope Boroughs; we received a letter from Bristol Township indicating that they would act as a non-Federal sponsor. Officials of the other townships and boroughs have indicated that those communities would not so act. As stated in our previous letter, if the townships and boroughs declined to act as non-Federal sponsors, the opportunity would be offered to the county.

If the county is interested in seeing studies of non-structural flood damage reduction measures continue and is willing and able to act as a non-Federal sponsor of such studies, it is requested that this office be advised within 30 days of receipt of this letter. At this time, a formal application is not needed; however, we would require a letter stating that Bucks County is interested in the Corps' plan for utilizing non-structural measures to reduce flood damages. Your letter should also state that the county is willing and able to sponsor further studies.

Should you have any questions or wish to arrange a meeting to discuss this matter further, please feel free to contact Dr. John A. Burnes, Chief of Planning Branch at 215/597-5951.

Sincerely,

Nicholas J. Barbieri, PE  
Chief, Planning/Engineering Division



DEPARTMENT OF THE ARMY  
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS  
CUSTOM HOUSE—2 D & CHESTNUT STREETS  
PHILADELPHIA, PENNSYLVANIA 19106

IN REPLY REFER TO  
Planning Branch

MAY 14 1984

Dr. Harold Colburn  
Freeholder Director  
Burlington County Office Building  
49 Rancocas Road  
Mount Holly, New Jersey 08060

Dear Dr. Colburn:

This is in reference to our April 2, 1984 letter regarding non-Federal sponsorship of further studies of flood damage reduction measures along the main stem Delaware River. The Township Administrators of both Delanco and Riverside Townships have indicated that they would not act as non-Federal sponsors for further studies. As stated in our previous letter, if the Townships declined to sponsor further studies, the opportunity would be offered to the County. If Burlington County is interested in seeing studies of non-structural flood damage reduction measures continue and is willing and able to act as a non-Federal sponsor of such studies, it is requested that this office be so advised within 30 days of receipt of this letter. At this time, a formal application is not needed, however, we would require a letter stating that Burlington County is interested in the Corps' plan for utilizing non-structural measures to reduce flood damages. Your letter should also state that the county is willing and able to sponsor further studies.

Should you have any questions or wish to arrange a meeting to discuss this matter further, please feel free to contact Dr. John Burnes, Chief of Planning Branch at 215/597-5951.

Sincerely,

Nicholas G. Barbieri, PE  
Chief, Planning/Engineering Division



DEPARTMENT OF THE ARMY  
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS  
CUSTOM HOUSE-2 D & CHESTNUT STREETS  
PHILADELPHIA, PENNSYLVANIA 19106

IN REPLY REFER TO

Planning Branch

MAY 14 1984

Mr. George D. Mueller  
Freeholder Director  
Hunterdon County  
Administration Building  
Flemington, New Jersey 08822

Dear Mr. Mueller:

This is in reference to our April 2, 1984 letter regarding non-Federal sponsorship of further studies of flood damage reduction measures along the main stem Delaware River. The clerk of Holland Township has indicated that the township would not act as a non-Federal sponsor for further studies. As stated in our previous letter, if the township declined to sponsor further studies the opportunity would be offered to the county.

If the county is interested in seeing studies of nonstructural flood damage reduction measures continue and is willing and able to act as a non-Federal sponsor of such studies, it is requested that this office be advised within 30 days of receipt of this letter. At this time, a formal application is not needed; however, we would require a letter stating that Hunterdon County is interested in the Corps' plan for utilizing nonstructural measures to reduce flood damages. Your letter should also state that the county is willing and able to sponsor further studies.

Should you have any questions or wish to arrange a meeting to discuss this matter further, please feel free to contact Dr. John A. Burnes, Chief of Planning Branch at (215) 597-5951.

Sincerely,

Nicholas J. Barbieri, P. E.  
Chief, Planning/Engineering Division



DEPARTMENT OF THE ARMY  
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS  
CUSTOM HOUSE—2 D & CHESTNUT STREETS  
PHILADELPHIA, PENNSYLVANIA 19106

IN REPLY REFER TO  
Planning Branch

Dr. William Klepper  
President of Board, Mercer County  
Mercer County Administration Building  
P. O. Box 8068  
Trenton, New Jersey 08650

Dear Dr. Klepper:

This is in reference to our April 2, 1984 letter regarding non-Federal sponsorship of further studies of flood damage reduction measures along the main stem Delaware River. Mr. John DiMemmo, the head engineer for Hamilton Township, has indicated that the township would not act as a non-Federal sponsor for further studies. As stated in our previous letter, if the township declined to sponsor further studies the opportunity would be offered to the county.

If the county is interested in seeing studies of non-structural flood damage reduction measures continue and is willing and able to act as a non-Federal sponsor of such studies, it is requested that this office be advised within 30 days of receipt of this letter. At this time, a formal application is not needed; however, we would require a letter stating that Mercer County is interested in the Corps' plan for utilizing non-structural measures to reduce flood damages. Your letter should also state that the county is willing and able to sponsor further studies.

Should you have any questions or wish to arrange a meeting to discuss this matter further, please feel free to contact Dr. John Burnes, Chief of Planning Branch at 215/597-5951.

Sincerely,

Nicholas J. Barbieri, PE  
Chief, Planning/Engineering Division



DEPARTMENT OF THE ARMY  
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS  
CUSTOM HOUSE - 2 D & CHESTNUT STREETS  
PHILADELPHIA, PENNSYLVANIA 19106

IN REPLY REFER TO

Planning Branch

MAY 14

Mr. Eugene Hartzell  
County Executive  
Northampton County  
Government Center  
7th & Walnut Streets  
Easton, Pennsylvania 18042

Dear Mr. Hartzell:

This is in reference to our April 2, 1984 letter regarding non-Federal sponsorship of further studies of flood damage reduction measures along the main stem Delaware River. Mr. Robert Taylor, Zoning Officer of Lower Mt. Bethel Township, has indicated that the township would not act as a non-Federal sponsor for further studies. As stated in our previous letter, if the township declined to sponsor further studies the opportunity would be offered to the county.

If the county is interested in seeing studies of non-structural flood damage reduction measures continue and is willing and able to act as a non-Federal sponsor of such studies, it is requested that this office be advised within 30 days of receipt of this letter. At this time, a formal application is not needed; however, we would require a letter stating that Northampton County is interested in the Corps' plan for utilizing non-structural measures to reduce flood damages. Your letter should also state that the county is willing and able to sponsor further studies.

Should you have any questions or wish to arrange a meeting to discuss this matter further, please feel free to contact Dr. John A. Burnes, Chief of Planning Branch at 215/597-5951.

Sincerely,

Nicholas J. Barbieri, PE  
Chief, Planning/Engineering Division



DEPARTMENT OF THE ARMY  
PHILADELPHIA DISTRICT, CORPS OF ENGINEERS  
CUSTOM HOUSE - 2 D & CHESTNUT STREETS  
PHILADELPHIA, PENNSYLVANIA 19106

IN REPLY REFER TO

Planning Branch

MAY 1 1984

Mr. Charles Lee  
Freeholder Director  
Warren County  
Court House  
Belvidere, New Jersey 07823

Dear Mr. Lee:

This is in reference to our April 2, 1984 letter regarding non-Federal sponsorship of further studies of flood damage reduction measures along the main stem Delaware River. The Mayor of Harmony Township has indicated that the township would probably not act as a non-Federal sponsor for further studies. As stated in our previous letter, if the township declined to sponsor further studies the opportunity would be offered to the county.

If the county is interested in seeing studies of nonstructural flood damage reduction measures continue and is willing and able to act as a non-Federal sponsor of such studies, it is requested that this office be advised within 30 days of receipt of this letter. At this time, a formal application is not needed; however, we would require a letter stating that Warren County is interested in the Corps' plan for utilizing nonstructural measures to reduce flood damages. Your letter should also state that the county is willing and able to sponsor further studies.

Should you have any questions or wish to arrange a meeting to discuss this matter further, please feel free to contact Dr. John A. Burnes, Chief of Planning Branch at (215) 597-5951.

Sincerely,

Nicholas J. Barbieri, P. E.  
Chief, Planning/Engineering Division



# TOWNSHIP OF DELANCO

MUNICIPAL BUILDING  
DELANCO, NEW JERSEY 08075

OFFICE OF THE CLERK

461-0561

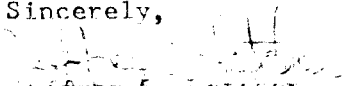
Army Corp. of Engineers  
Custom House  
2nd and Chestnut St.  
Philadelphia, Pa. 19106  
Attn: Burns

May 17, 1984

Dear Mr. Burns:

Your proposal for a flood control project was discussed as a matter of the township committee on May 7, 1984. After a review of the project it was determined by the Township Committee of the Township of Delanco that although this project was a worthy project budget constraints as well as the timing of the project make such an undertaking impossible at this time. If you have any questions on this matter please do not hesitate to call.

Sincerely,

  
Jeffrey S. Hatcher  
Administrator

OFFICE OF THE COUNTY ENGINEER  
 COUNTY ROAD AND BRIDGE DEPARTMENT  
 ADMINISTRATION BUILDING  
 FLEMINGTON, NEW JERSEY - 08822

DAVID W. STEM, P.E.  
 County Engineer

JOHN P. GLYNN  
 Superintendent of Bridges

WILLIAM W. WINTER  
 County Road Supervisor



(201) 782-4300

Ext. 227

Ext. 227

Ext. 178

May 21, 1984

Mr. Nicholas J. Barbieri, P. E.  
 Chief, Planning/Engineering Division  
 Department of the Army  
 Philadelphia District, Corps of Engineers  
 Custom House-2 D & Chestnut Streets  
 Philadelphia, Pennsylvania 19106

RE: Flood Damage Reduction Measures  
 Delaware River  
 Township of Holland

Dear Mr. Barbieri:

Please be advised that your correspondence concerning the above captioned matter has been referred to this office.

Having reviewed the matter and discussed it with our County Planning Staff, it is my opinion and recommendation that the County should not become directly involved with the program. I would, however, like to take this opportunity to offer the following comment and suggestions:

Although government has generated a great wealth of information which needs to be disseminated, it appears that the program participants should be individual home or property owners-not government.

In the future, consideration should be given to developing a low cost mailer which could be sent to owners within any delineated areas. In addition to summarizing the benefits and cost effectiveness of low cost waterproofing, it could direct interested people on where to get more detailed information; i.e., copies of the booklet "Introduction to Flood Proofing-An Outline of Principles and Methods."

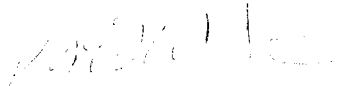
Page 2

May 21, 1984

Mr. Nicholas J. Barbieri, P. E.  
Chief, Planning/Engineering Division  
Department of the Army

For your information, I have enclosed copies of the appropriate section of the Holland Township Tax Map and Owners Listings.

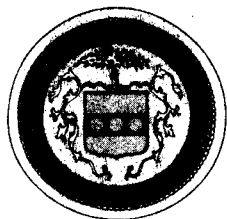
Very truly yours,

  
David W. Stem, P. E.

DWS:mrg

CC: George D. Muller, Freeholder Director  
John W. Kellogg, Planning Director

Enclosures



# COUNTY OF BUCKS

## OFFICE OF THE COMMISSIONERS

Administration Building, Doylestown, Pa. 18901

215-348-2911      215-752-0281

*County Commissioners*

CARL F. FONASH, *Chairman*  
LUCILLE M. TRENCH, *Vice-Chairman*  
ANDREW L. WARREN

WILLIAM H. RIESER  
*County Administrator*  
JAMES M. McNAMARA  
*County Solicitor*

June 7, 1984

Mr. Nicholas Barbieri, P.E.  
Chief, Planning/Engineering Division  
U.S. Army, Corps of Engineers  
Custom House, 2nd and Chestnut Streets  
Philadelphia, Pa. 19106

RE: Nonstructural Alternatives for Delaware  
River Flood Control

Dear Mr. Barbieri:

The County of Bucks concurs with your conclusion that local government can better administer and implement the types of nonstructural flood damage reduction measures proposed by your study. If the local governing bodies do not believe that your program is necessary, we do not intend to intercede.

Very truly yours,

Carl F. Fonash, Chairman  
Board of Commissioners

CFF/cg

cc: Robert E. Moore

COUNTY PLANNING OFFICE  
WARREN COUNTY  
BELVIDERE, NEW JERSEY 07823

RUSSELL A. MILES  
PLANNING DIRECTOR



PHONE: 201-475-5361  
EXT. 235

June 21, 1984

Nicholas J. Barbieri, P. E.  
Planning Branch  
Philadelphia District, Corp of Engineers  
Custom House-2 D & Chestnut Streets  
Philadelphia, Pennsylvania 19106

Dear Mr. Barbieri:

This is to inform you that the Warren County Board of Chosen Freeholders did not act on the matter of non-Federal sponsorship of further study of flood damage reduction in Harmony Township.

The Freeholders were advised by the County Planning Board not to sponsor further studies. The Planning Board believed that the estimated costs were too high given the small number of structures to be studied and the flood level they were to be protected to.

Should you have any further questions, please feel free to contact me.

Very truly yours,

Anthony J. DePrima  
Assistant Planner

AJP/sp

**C. DOUGLAS CHERRY & ASSOCIATES***A Professional Association*

CONSULTING ENGINEERS - PLANNERS

55 South Main Street Phillipsburg, N. J. 08865

July 5, 1984

Nicholas J. Barbieri, P.E.  
Chief, Planning/Engineering Division  
U. S. Army Corps of Engineers  
Custom House  
Second and Chestnut Streets  
Philadelphia, Pennsylvania 19106

Re: Flood Studies  
Harmony Township  
Warren County, New Jersey  
NJ-W-HM-122

Dear Mr. Barbieri:

The Harmony Township Committee at its June 5, 1984 meeting discussed your letter of March 23, 1984 to Mayor Arthur Schwarz concerning the Township's participation in the Corps' continuing authorities program. The Committee determined that it does not desire to participate in the program and has asked me to communicate with you concerning their decision.

The Committee will not participate for the following reasons:

- 1) The obligation to repair or restore buildings damaged by flooding is not presently an obligation of Harmony Township but one which the State and Federal Governments have assumed. The Township cannot undertake any additional responsibilities at this time.
- 2) The Township does not have the financial resources to expend an estimated \$30,000 for the Study Phase in addition to \$50,000 - \$60,000 for the Implementation Phase. It further cannot enter into a program that does not have a ceiling attached to it.
- 3) The Township cannot guarantee funding of its maintenance responsibility.
- 4) Although the project has a Cost-Benefit Ratio of 1.8 the Township will not gain from the benefit and consequently cannot expect to recapture its investment.
- 5) The ten year recurrence interval level of protection will open the Township to demands by unprotected property owners damaged by an event of greater than 10 year recurrences.

Nicholas J. Barbieri, P.E.  
U.S. Army Corps of Engineers  
July 5, 1984

Re: Flood Studies  
Harmony Township  
NJ-W-HM-122

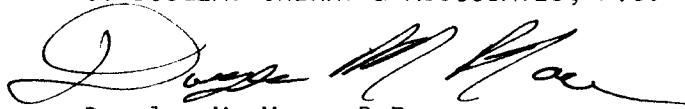
-2-

In summary the Township views this as an open ended program at all phases of its operation and cannot financially commit itself to such an undertaking.

If you have any questions regarding this matter, please do not hesitate to contact our office.

Very truly yours,

C. DOUGLAS CHERRY & ASSOCIATES, P.C.

A handwritten signature in black ink, appearing to read "Douglas M. Mace". The signature is fluid and cursive, with a large initial "D" and "M".

Douglas M. Mace, P.E.

DMM/rd

cc: Mrs. Loyce Johnson, Clerk Harmony Township  
Mayor Arthur C. Schwarz  
Ms. Maureen E. Babula, Committee Member  
Mr. J. Richard Collins, Committeeman  
James A. Tirrell, Jr., Esq.