Federal Emergency Management Agency

Washington, D.C. 20472

DEC 29 1999

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

The Honorable Gerald P. Nally
Mayor of the Borough of Kenhorst
339 South Kenhorst Boulevard
Kenhorst, Pennsylvania 19607

IN REPLY REFER TO:

Case Number:	98-03-047P
Community Name:	Borough of Kenhorst, Berks County, Pennsylvania
Community Number:	420135
Map Panel Number:	42011C0512
Effective Date of this Revision:	APR 11 2000

102-I-A (c)

Dear Mayor Nally:

The Flood Insurance Study (FIS) and Flood Insurance Rate Map (FIRM) for Berks County, Pennsylvania (All Jurisdictions) have been revised by this Letter of Map Revision (LOMR) to reflect more detailed and up-to-date topographic information along Angelica Creek, than that used to prepare the December 5, 1997, FIRM for Berks County (All Jurisdictions), which includes the flood hazard information for the Borough of Kenhorst. The subject area is located in the vicinity of the Wingate Terrace subdivision. This revision also affects flood hazard information for the Township of Cumru, Berks County, Pennsylvania. This revision was initiated by Mr. [redacted], P. E., P.L.S., of C. L. Frantz & Associates, Inc., in a transmittal dated January 9, 1998.

We received the following technical data, prepared by C. L. Frantz & Associates, Inc., unless otherwise noted in support of this revision:

- a HEC-2 hydraulic model, dated October 30, 1998, of the 10% (10-year), 2% (50-year), 1% (100-year), and 0.2% (500-year) annual chance floods and floodway for Angelica Creek, duplicating the model used to prepare the December 5, 1997, FIS for Berks County (All Jurisdictions);

- a HEC-2 hydraulic model, dated June 4, 1999, of the 10%, 2%, 1%, and 0.2% annual chance floods and floodway for Angelica Creek, reflecting existing conditions;

- a certified topographic map, titled Wingate Terrace, dated August 18, 1999, at a scale of 1"=50', with a contour interval of 2 feet, reflecting the existing 1% and 0.2% annual chance floodplains, as well as the locations of the cross sections used in the aforementioned HEC-2 hydraulic model; and

- completed application/certification forms including community concurrence with the request.

In addition to the aforementioned technical data, we received the following correspondence in support of this request:

- a statement of a public notice published in the Reading Eagle on September 5, 9, and 13, 1999, and Reading Times on September 9 and 13, 1999, by the Township of Cumru, in accordance with National Flood Insurance Program (NFIP) regulation subparagraph 65.7(b)(1), stating the community's intent to revise the floodway along Angelica Creek; and

- copies of letters dated December 27, 1999, from Mr. [redacted] of Lis Construction, Inc., to eight property owners affected by the project, informing them of the increases in the 1% annual chance floodplain along Angelica Creek.

We received all data necessary to process this revision by December 27, 1999.

Based on our review of the submitted data, we are issuing this LOMR to reflect decreases in the 1% annual chance water-surface elevations along Angelica Creek with a maximum decrease of 5.1 feet. In addition, this LOMR reflects narrowing and widening of the 1% and 0.2% annual chance floodplains and floodway along Angelica Creek from a point approximately 1,350 feet downstream of High Boulevard to a point approximately 900 feet downstream of Philadelphia Avenue. In addition, the 1% annual chance water-surface elevations along Tributary to Angelica Creek have decreased at the confluence with Angelica Creek due to a decrease in backwater from Angelica Creek. This LOMR revises the Berks County (All Jurisdictions) FIS, as shown on the enclosed annotated portions of Flood Profiles 08P, 09P, and 227P, all dated December 5, 1997; and Floodway Data Table (Table 7) dated December 5, 1997. In addition, this LOMR revises FIRM number 42011C0512 E, dated December 5, 1997, as shown on the enclosed digitally reproduced portion of the FIRM.

We have enclosed a copy of the public notification of the revised Base (1% annual chance) Flood Elevations (BFEs), which will be published in the Reading Eagle/Times on or about January 6, 2000, and January 13, 2000. In addition, we will publish a notice of changes in the Federal Register. However, we will not print and distribute this LOMR to users, such as insurance agents or lenders. Your community will serve as a repository for the new data. Therefore, we encourage you to supplement the notification to appear in the Reading Eagle/Times by preparing a news release for publication in your community newspaper that describes the revision and explains how your community will provide data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

Within 90 days of the second publication in the Reading Eagle/Times, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period elapses and we resolve any appeals that we receive during this appeal period. Until this LOMR is effective, the revised BFEs presented in this LOMR may be changed.

We based this determination on the 1% annual chance flood discharges computed in the December 5, 1997, FIS for Berks County (All Jurisdictions) without considering subsequent changes in watershed characteristics that could increase flood discharges. Future development of projects upstream could cause increased flood discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on flood discharges subsequent to the publication of the December 5, 1997, FIS for your community and could, therefore, establish greater flood hazards in this area.

Your community must approve all proposed floodplain development and ensure that permits required by Federal and/or Commonwealth law have been obtained. Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If the Commonwealth of Pennsylvania or the Borough of Kenhorst has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

Because of funding constraints, we must limit the number of republications. Consequently, we will not republish the FIS and FIRM for Berks County (All Jurisdictions) to reflect this determination. However, we will incorporate this determination when we next republish the FIS and FIRM panel 42011C0512.

We have enclosed a document titled "List of Current Flood Insurance Study Data," which includes this letter, to help your community maintain all information for floodplain management and flood insurance. If any of the items in that document are not filed in your community's map repository, please contact the Federal Emergency Management Agency (FEMA) Map Assistance Center at the number listed below for information on how to obtain those items.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway modifications we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

Use the map panel listed above and revised by this letter for all flood insurance policies and renewals issued in your community.

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS and FIRM, and modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent Commonwealth or local requirements to which the regulations apply.

If you have any questions, please do not hesitate to contact the Director, Mitigation Division of FEMA in Philadelphia, Pennsylvania, at (215) 931-5512, John F. Magnotti III, of our Headquarters Office at (202) 646-3932, or the FEMA Map Assistance Center toll free at 1-877-FEMA MAP (336-2627).

Sincerely,

William R. Blanton Jr.
Project Engineer
Hazards Study Branch
Mitigation Directorate

For: Matthew B. Miller, P.E., Chief
Hazards Study Branch
Mitigation Directorate

Enclosures

cc: Mr. Frank Garbini, Borough of Kenhorst Manager
Mr. William S. Shea, Township of Cumru Manager
Mr. [redacted] P.E., P.L.S., C.L. Frantz & Associates, Inc.
Mr. [redacted] Lis Construction, Inc.
Commonwealth Coordinator

LIST OF CURRENT FLOOD INSURANCE STUDY DATA

This list is provided to document all information currently effective for your community for insurance and floodplain management.

Date: DEC 29 1999

Community: Borough of Kenhorst, Berks County, Pennsylvania

Community Number: 420135

Page Number: 1 of 1

CURRENT EFFECTIVE FLOOD INSURANCE STUDY DATE: December 5, 1997

FLOOD INSURANCE RATE MAP

Map Number: 42011C (Berks County, Pennsylvania and Incorporated Areas)

Index Date: December 5, 1997

Panel Numbers	Effective Date
0504 E, 0508 E, 0512 E, and 0516 E	December 5, 1997

LETTERS OF MAP REVISION

Panel Numbers	Effective Date
0512 E	APR 11 2000

LETTERS OF MAP AMENDMENT AND MAP REVISION BASED ON FILL

None

BEST AVAILABLE DATA LETTERS

None

MAP LEGEND

- REVISED FLOODWAY
- REVISED 100-YEAR FLOODPLAIN
- REVISED 500 YEAR FLOODPLAIN

APPROXIMATE SCALE

500 0 500 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

BERKS COUNTY, PENNSYLVANIA

(ALL JURISDICTIONS)

PANEL 512 OF 678

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
CUMRU, TOWNSHIP OF	420130	0512	E
KENHORST, BOROUGH OF	420136	0512	E
READING, CITY OF	420145	0512	E
SHILLINGTON, BOROUGH OF	420148	0512	E
WYOMISSING, BOROUGH OF	421376	0512	E

Notice to User: The MAP NUMBER shown below should be used when placing map orders; the COMMUNITY NUMBER shown above should be used on insurance applications for the subject community.

MAP NUMBER
42011C0512 E

EFFECTIVE DATE:
DECEMBER 5, 1997

REVISED TO REFLECT LOMR EFFECTIVE:
APR 11 2000

Federal Emergency Management Agency

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NGVD)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Angelica Creek								
A	400	84	1,294	3.40	198.5	197.5[2]	198.5	1.0
B	960	90	526	8.37	201.4	201.4	201.4	0.0
C	1,780	750	10,814	0.40	222.3	222.3	222.3	0.0
D	2,340	600	6,993	0.60	222.3	222.3	222.3	0.0
E	2,960	262	1,453	3.00	222.3	222.3	222.3	0.0
F	3,620	230	716	6.10	222.8	222.8	222.8	0.0
G	3,780	287	2,951	1.50	225.9	225.9	226.8	0.9
H	5,260	114	526	8.10	237.2	237.2	237.2	0.0
I	7,000	158	421	6.30	249.4	249.4	249.9	0.5
J	9,100	148	427	6.20	274.4	274.4	274.5	0.1
K	9,900	99	364	7.00	280.4	280.4	281.4	1.0
				AREA OF REVISION				
Antietam Creek								
A	1,215	200	1,017	4.0	171.6	160.8[2]	161.8	1.0
B	2,900	170	794	5.1	171.6	166.6[2]	167.6	1.0
C	4,180	110	605	6.7	175.5	175.5	176.3	0.8
D	6,650	140	765	5.2	187.0	187.0	188.0	1.0
E	7,180	100	450	8.9	190.6	190.6	191.0	0.4
F	9,610	110	474	8.4	207.0	207.0	207.4	0.4
G	11,360	154	1,107	3.2	217.2	217.2	218.2	1.0
H	12,725	299	929	3.8	222.0	222.0	222.6	0.6
I	13,465	209	892	4.0	225.4	225.4	226.2	0.8
J	14,625	197	886	4.0	235.4	235.4	236.2	0.8
K	18,255	529	621	7.4	260.3	260.3	260.3	0.0
L	18,975	220	421	8.5	266.3	266.3	266.3	0.0

[1]Feet above confluence with Schuylkill River
[2]Elevation computed without consideration of backwater effects from Schuylkill River

REVISED TO REFLECT LOMR EFFECTIVE APR 11 2000

TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERKS COUNTY, PA
(ALL JURISDICTIONS)

FLOODWAY DATA

ANGELICA CREEK – ANTIETAM CREEK

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NGVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Tributary to Angelica Creek			AREA OF REVISION					
A	139[1]	34	109	4.4	273.1	273.1	274.1	1.0
B	376[1]	24	68	7.0	272.2	272.2	272.6	0.4
C	751[1]	22	86	5.5	274.8	274.8	275.7	0.9
D	1,006[1]	18	67	7.1	277.6	277.6	278.0	0.4
E	1,156[1]	48	185	2.6	281.2	281.2	281.6	0.4
F	1,183[1]	54	104	4.6	281.3	281.3	281.6	0.3
G	1,241[1]	55	137	3.5	281.6	281.6	282.5	0.9
H	1,836[1]	28	95	4.6	286.5	286.5	287.5	1.0
Trout Run								
A	1,000[2]	65	286	3.7	177.7	170.4[3]	171.4	1.0
B	1,918[2]	55	209	5.0	177.7	176.4[3]	177.1	0.7
C	2,475[2]	40	157	6.7	180.3	180.3	180.8	0.5
D	2,618[2]	100	571	1.8	186.0	186.0	187.0	1.0
E	2,761[2]	90	423	2.5	186.2	186.2	187.2	1.0
F	3,184[2]	33	129	8.1	187.8	187.8	188.3	0.5
G	3,246[2]	100	449	2.3	192.0	192.0	193.0	1.0
H	4,083[2]	90	582	1.8	192.6	192.6	193.6	1.0
I	4,533[2]	90	408	2.6	193.0	193.0	194.0	1.0
J	4,708[2]	70	271	3.9	193.2	193.2	194.2	1.0

[1]Feet above confluence with Angelica Creek
[2]Feet above confluence with Schuylkill River
[3]Elevation computed without consideration of backwater effects from Schuylkill River

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TABLE 7

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERKS COUNTY, PA
(ALL JURISDICTIONS)

FLOODWAY DATA

TRIBUTARY TO ANGELICA CREEK – TROUT RUN

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERKS COUNTY, PA

(ALL JURISDICTIONS)

FLOOD PROFILES

ANGELICA CREEK

08P

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERKS COUNTY, PA
(ALL JURISDICTIONS)

FLOOD PROFILES

ANGELICA CREEK

09P

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERKS COUNTY, PA

(ALL JURISDICTIONS)

FLOOD PROFILES

TRIBUTARY TO ANGELICA CREEK

227P