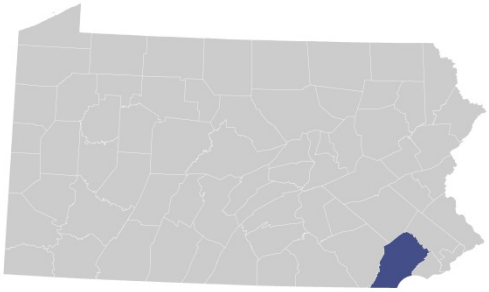
FLOOD INSURANCE STUDY

FEDERAL EMERGENCY MANAGEMENT AGENCY

VOLUME 2 OF 6



CHESTER COUNTY, PENNSYLVANIA

(ALL JURISDICTIONS)

*See Table 1: Listing of NFIP Jurisdictions for a complete listing of the communities represented in this Flood Insurance Study Report

REVISED:

SEPTEMBER 29, 2017

FLOOD INSURANCE STUDY NUMBER 42029CV002B

Version Number 2.3.3.2

FEMA

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Figure 7: Frequency Discharge-Drainage Area Curves

[Not Applicable to this Flood Risk Project]

Table 11: Summary of Non-Coastal Stillwater Elevations

Flooding Source	Location	Elevations (feet NAVD88)				
		10% Annual Chance	4% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
Barneston Dam	Township of Wallace	469.5	*	477.9	480.8	482.1
Beaver Creek Dam	Township of East Brandywine	497.1	*	501.3	503	505.7
Detention Dam on Tributary F to Valley Creek	Township of West Whiteland	297.1	*	297.7	297.9	298.3
Hibernia Dam	Township of West Caln	583.5	*	586.1	587.6	589.1
Struble Dam	Township of Honey Brook	614.3	*	615.4	616	617.1
Radley Pond	Township of Birmingham	*	*	*	410.8	*

*Not calculated for this Flood Risk Project

Table 12: Stream Gage Information used to Determine Discharges

Flooding Source	Gage Identifier	Agency that Maintains Gage	Site Name	Drainage Area (Square Miles)	Period of Record	
					From	To
Birch Run	1480400	USGS	Birch Run near Wagontown, PA	4.6	1997	2012
Brandywine Creek	1481000	USGS	Brandywine Creek at Chadds Ford, PA	287	1977	2012
Brandywine Creek	1481500	USGS	Brandywine Creek at Wilmington, DE	314	1973	2012
East Branch Brandywine Creek	1480700	USGS	East Branch Brandywine Creek near Downingtown, PA	60.6	1974	2013
East Branch Brandywine Creek	1480870	USGS	East Branch Brandywine Creek below Downingtown, PA	89.9	1974	2012
Marsh Creek	1480685	USGS	Marsh Creek near Downingtown, PA	20.3	1973	2012
Red Clay Creek	1479820	USGS	Red Clay Creek near Kennett Square, PA	27.5	1988	2014
Red Clay Creek	1480000	USGS	Red Clay Creek at Wooddale, DE	47	1943	2014
Sucker Run	1480610	USGS	Sucker Run near Coatesville, PA	2.6	1964	2012
West Branch Brandywine Creek	1480300	USGS	West Branch Brandywine Creek near Honey Brook, PA	18.7	1960	2012
West Branch Brandywine Creek	1480500	USGS	West Branch Brandywine Creek at Coatesville, PA	45.8	1970	2012
West Branch Brandywine Creek	1480617	USGS	West Branch Brandywine Creek at Modena, PA	55	1970	2012

5.2 Hydraulic Analyses

Analyses of the hydraulic characteristics of flooding from the sources studied were carried out to provide estimates of the elevations of floods of the selected recurrence intervals. Base flood elevations on the FIRM represent the elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report. Rounded whole-foot elevations may be shown on the FIRM in coastal areas, areas of ponding, and other areas with static base flood elevations. These whole-foot elevations may not exactly reflect the elevations derived from the hydraulic analyses. Flood elevations shown on the FIRM are primarily intended for flood insurance rating purposes. For construction and/or floodplain management purposes, users are cautioned to use the flood elevation data presented in this FIS Report in conjunction with the data shown on the FIRM. The hydraulic analyses for this FIS were based on unobstructed flow. The flood elevations shown on the profiles are thus considered valid only if hydraulic structures remain unobstructed, operate

properly, and do not fail.

For streams for which hydraulic analyses were based on cross sections, locations of selected cross sections are shown on the Flood Profiles (Exhibit 1). For stream segments for which a floodway was computed (Section 6.3), selected cross sections are also listed on Table 24, “Floodway Data.”

A summary of the methods used in hydraulic analyses performed for this project is provided in Table 13. Roughness coefficients are provided in Table 14. Roughness coefficients are values representing the frictional resistance water experiences when passing overland or through a channel. They are used in the calculations to determine water surface elevations. Greater detail (including assumptions, analysis, and results) is available in the archived project documentation.

Table 13: Summary of Hydrologic and Hydraulic Analyses

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Beaver Creek (Lower Reach)	At the confluence with East Branch Brandywine Creek	Approximately 200 feet downstream of U.S. Route 30	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	Geometry data from LOMR 05-03-0480R was used while creating updated HEC-RAS geometry.
Beaver Creek (Upper Reach)	At the confluence of Tributary 3 of Beaver Creek	Approximately 1,050 feet upstream of the confluence of Tributary 7 of Beaver Creek	Pennsylvania Regression, NRCS SITES Model	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	The water surface elevations immediately upstream of Beaver Creek Dam were obtained from NRCS SITES model
Beaver Run	Approximately 500 feet downstream of Fairview Road	Approximately 200 feet downstream of Nantmeal Road	Other	HEC-2	12/1/1980	AE	
Bennetts Run	At the confluence with Brandywine Creek	Downstream of Brayman Dam (Dam No. 4)	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Birch Run No. 1	Hibernia Dam	Martins Corner Road	Pennsylvania Regression, NRCS SITES Model	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	The water surface elevations immediately upstream of Hibernia Dam were obtained from NRCS SITES model
Birch Run No. 2	Approximately 700 feet downstream of Flowing Springs Road	Approximately 550 feet upstream of Birch Run No. 2 Dam	Regression Equations	Other	6/1/1986	AE	
Blackhorse Run	Approximately 1,580 feet downstream of State Route 842	Approximately 180 feet downstream of State Route 842	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE	
Boot Road Run	At the confluence with West Branch Ridley Creek	Approximately 150 feet upstream of Greenhill Road	TR-55	HEC-RAS	2/1/2003	AE	
Brandywine Creek	At the Chester County Boundary	At the confluence of East Branch Brandywine Creek	Gage weighted Regression Analysis	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	Hydraulic model was calibrated to USGS gage rating curve

Table 13: Summary of Hydrologic and Hydraulic Analyses – continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Buck Run (downstream)	Approximately 350 feet downstream of Doe Run Church Road	Approximately 1,300 feet upstream of Doe Run Church Road	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE	Geometry data from LOMR 03-03-0999P was used while creating updated HEC-RAS geometry.
Buck Run (upstream)	Just downstream of State Route 82	Approximately 400 feet upstream from confluence of Little Buck Run	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
By-Pass Run	South Matlack Street	Approximately 150 feet downstream of US Highway 322	TR-55	HEC-RAS	2/21/2008	AE	
Chathum Run	At the confluence with East Branch White Clay Creek	Approximately 350 feet upstream of N Mosquito Lane	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Clarks Creek	At the confluence with East Branch Chester Creek	Approximately100 feet upstream of Wilson Drive	Other	HEC-2	1/1/1977	AE	
Colebrook Run	At the confluence with Valley Creek No. 2	Just upstream of Colebrook Road	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Copeland Run	At the confluence with Beaver Creek	Approximately 500 feet upstream of W Prospect Avenue	Rainfall Runoff / Pennsylvania Regression	HEC-RAS 4.1	11/6/2015	AE W/ Floodway, AO	Simplified split flow analysis was performed. Information on split flow and additional survey was obtained from LOMR case 15-03-1479P
Cossart Run	At the confluence with Brandywine Creek	Approximately 800 feet upstream of Dam No. 3	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Craig Run	At the confluence with Brandywine Creek	Just upstream of Fairville Road	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Crum Creek	Approximately 1,800 feet downstream of Goshen Road	Approximately 100 feet downstream of Paoli Pike	Other	HEC-RAS	10/1/1979	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses – continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Doe Run	Approximately 1,000 feet upstream of confluence with Buck Run	Approximately 1,650 feet upstream of the upstream crossing of Creek Road	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
East Branch Brandywine Creek	At the confluence with Brandywine Creek	Just downstream of Struble Dam	HEC-HMS 3.5 / Gage Analysis	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	Hydraulic model was calibrated to USGS gage rating curve
East Branch Chester Creek	Approximately 1,500 feet downstream of Dilworthtown Road	Approximately 1,100 feet upstream of State Route 100	Regression Equations / Other	HEC-2	*	AE	
East Branch Goose Creek	At the confluence with Goose Creek	Approximately 1,660 feet upstream of US Highway 322	Regression Equations / Other	HEC-2	*	AE	
East Branch Octoraro Creek	State Route 372	Approximately 600 feet upstream of Zion Hill Road	TR-55 / Other	HEC-2	1/10/1980	AE	
East Branch Red Clay Creek	At the confluence with Red Clay Creek	Just downstream of Locust Lane	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
East Branch Ridley Creek	At the confluence with Ridley Creek	Approximately 1,200 feet upstream of Sorrel Hill Drive	Other	HEC-2	1/1/1977	AE	
East Branch White Clay Creek	Approximately 2,100 feet upstream of Auburn Road	Approximately 1,400 feet upstream of 3rd Avenue	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
East Tributary	At the confluence with Pigeon Creek	Approximately 30 feet downstream of South Keim Street	Other	HEC-2	10/1/1979	AE	
East Tributary to Buck Run	Approximately 140 feet upstream of the confluence with Buck Run	Just downstream of Old Wilmington Road	Effective Flow	HEC-RAS 4.1	8/10/2015	AE	

* Information not available

Table 13: Summary of Hydrologic and Hydraulic Analyses – continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
East Tributary to Crum Creek	Approximately 850 feet upstream of Devon Road	At the confluence with Crum Creek	Other	HEC-2	10/1/1979	AE	
East Tributary to Darby Creek	Approximately 50 feet upstream of Woodside Avenue	Approximately 430 feet upstream of the confluence with Darby Creek	HEC-1	HEC-2	10/1/1979	AE	
French Creek	At the confluence with Schuylkill River	Just downstream of Trythall Road	HEC-1 / Other	HEC-2/ Other	1/1/1977	AE	
Goose Creek	At the confluence with West Fork of East Branch Chester Creek	Approximately 900 feet upstream of Garfield Avenue	Other	HEC-2	*	AE	
Hunters Run	Approximately 450 downstream of Manley Road	Approximately 250 feet upstream of Fox Xing Road	Other	HEC-2	1/1/1977	AE W/ Floodway	
Indian King Run	At the confluence with Valley Creek No. 2	Approximately 300 feet upstream of Conrail Bridge	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Indian Spring Run	Approximately 1,500 feet downstream of State Route 10	Approximately 200 feet downstream of Telegraph Road	TR-55	HEC-2	7/17/1984	AE	
King James Run	At the confluence with West Branch Ridley Creek	Approximately 1,700 feet upstream of Millstream Drive	Other	HEC-2	1/1/1977	AE	
Lionville Run	At the confluence with Valley Creek No. 2	Approximately 275 feet upstream of Township Line Road	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Little Buck Run	Approximately 1,000 feet upstream of Western Avenue	Approximately 550 feet upstream of N Church Street	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	

* Information not available

Table 13: Summary of Hydrologic and Hydraulic Analyses – continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Little Valley Creek	At the confluence with Valley Creek No. 1	Approximately 1,000 feet upstream of Vanguard Boulevard	Other	HEC-2	12/1/1974	AE	
Marshall Manor Tributary	Just downstream of Goshen Road	Approximately 55 feet downstream of Hillside Drive	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE	Overland flow model was used for a portion of study reach near Marshall Drive
Middle Branch White Clay Creek	Approximately 1,200 feet downstream of the confluence of Tributary 7 of Middle Branch White Clay Creek	Approximately 0.7 mile upstream of Hilton Road	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Northeast Branch Ridley Creek	At the confluence with East Branch Ridley Creek	Approximately 2,000 feet upstream of Monument Road	Rational Method	HEC-2	10/1/1979	AE	
Officers Run	At the confluence with Valley Creek No. 3	Approximately 1,600 feet upstream of Upper Valley Road	TR-55	HEC-2	12/1/1980	AE	
Parke Run	At the confluence with East Branch Brandywine Creek	Approximately 800 feet upstream of Woodbine Road	Pennsylvania Regression	HEC-RAS 4.1	11/6/2015	AE W/ Floodway	Model geometry was updated based on construction plans from Borough of Downingtown in the vicinity of Jefferson Avenue
Pickering Creek	At the confluence with Schuylkill River	Approximately 1,500 feet upstream of Byers Road	Regression Equations	HEC-2	11/1/1989	AE	
Pigeon Creek	At the confluence with Schuylkill River	Approximately 300 feet downstream of Porters Mill Road	Other	HEC-2	10/1/1979	AE	
Pine Creek No. 1	Approximately 80 feet downstream of State Road 401	Approximately 300 feet downstream of Davis Road	Other	HEC-2	12/1/1980	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses – continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Pine Creek No. 2	At the confluence with East Branch Octoraro Creek	Approximately 600 feet upstream of Zion Hill Road	Other	HEC-2	11/20/1996	AE	
Pocopson Creek	At the confluence with Brandywine Creek	Approximately 180 feet upstream of State Route 926	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Radley Run	Approximately 2,500 feet downstream of Sumner Way	Approximately 800 feet upstream of Knolls Road	TR-20	HEC-RAS 4.1	11/6/2015	AE	Structure and main channel geometry for the HEC-RAS model was obtained from LOMR 08-03-1499P The 1-percent peak discharges were obtained from TR-20 model and other frequencies were computed by correcting regression equation peak discharges using TR-20 discharges
Red Clay Creek	Approximately 80 feet downstream of County Boundary	At the confluence with East Branch Red Clay Creek	Gage weighted Regression Analysis	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Ridley Creek	Approximately 900 feet downstream of Dutton Mill Rd	At the confluence with West Branch Ridley Creek	Other	HEC-2	10/1/1979	AE	
Ring Run	At the confluence with Brandywine Creek	Approximately 200 feet upstream of Constitution Drive	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Rock Run	At the confluence with West Branch Brandywine Creek	Approximately 2,112 feet upstream of U.S. Route 30	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Schuylkill River	Chester-Montgomery County Boundary	Chester-Berks County Boundary	Other	HEC-2	8/19/2558	AE	
Shadygrove Way Run	At the confluence with East Branch Chester Creek	Approximately 500 feet upstream from Lees Link Lane	Other	HEC-2	12/1/1976	AE	
Shamona Creek	At the confluence with East Branch Brandywine Creek	Approximately 1,530 feet upstream of Dowlin Forge Road	HEC-HMS 3.5	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	

Table 13: Summary of Hydrologic and Hydraulic Analyses – continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Shiloh Road Run	At the confluence with Goose Creek	Approximately 400 feet upstream of Conrail Bridge	Other	HEC-2	12/1/1976	AE	
Ship Road Run	At the confluence with Valley Creek No. 2	Approximately 150 feet upstream of U.S. Route 30	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Stackhouse Mill Run	At the confluence with Ridley Creek	At the County Boundary	*	*	9/1/1977	AE W/ Floodway	The stream was studied as part of Delaware County, PA
Stony Brook Run	At the confluence with East Branch Chester Creek	At the confluence with East Branch Chester Creek	Other	HEC-2	11/1/1977	AE	
Stony Run	Approximately 1,450 feet upstream of Buckwalter Road	Approximately 1,450 feet upstream of Buckwalter Road	Other	HEC-RAS	4/9/1998	AE	
Street Road Tributary	At the confluence with East Branch Chester Creek	At the confluence with East Branch Chester Creek	Other	WSP-2	9/1/1976	AE	
Sucker Run	At the confluence with West Branch Brandywine Creek	Just upstream of Red Road	Pennsylvania Regression / Gage weighted Regression Analysis	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	Hydraulic model was calibrated to USGS gage rating curve / Overland flow model was used for the downstream portion of study
Swedesford Road Run	At the confluence with Valley Creek No. 2	Just upstream of East Swedesford Road	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Taylor Run	Just downstream of U.S. Route 322	Approximately 2,000 feet upstream of Highland Road	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Tributary 1 to Beaver Creek	At the Confluence with Beaver Creek	Approximately 0.24 mile upstream of the Confluence with Beaver Creek	TR-55	HEC-RAS	9/25/2014	AE	

* Information not available

Table 13: Summary of Hydrologic and Hydraulic Analyses – continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tributary 1 to Red Clay Creek	Pennsylvania-Delaware State Boundary	Approximately 200 feet downstream of Spring Mill Road	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE with Floodway	
Tributary 2 to East Branch Red Clay Creek	Approximately 830 feet downstream of N Walnut Road	Approximately 500 feet upstream of US Highway 1	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Tributary 6 of Valley Run	Confluence with Valley Run	0.21 miles upstream of Confluence with Valley Run	HEC-HMS	HEC-RAS	1/03/2012	AE	
Tributary A to Crum Creek	At the Confluence with Crum Creek	Paoli Pike	Other	HEC-2	10/1/1979	AE	
Tributary A to East Tributary to Darby Creek	At the confluence with East Tributary to Darby Creek	Approximately 50 feet downstream of Arlington Road	HEC-1	HEC-2	10/1/1979	AE	
Tributary B to East Tributary to Crum Creek	at the confluence with East Tributary to Crum Creek	Approximately 1,900 feet upstream of Devon Road	Other	HEC-2	10/1/1979	AE	
Tributary F to Valley Creek	Approximately 70 feet upstream of Waterloo Boulevard	Just downstream of West Swedesford Road	HEC-1	HEC-RAS 4.1	11/6/2015	AE	Structure and main channel geometry for the HEC-RAS model was obtained from LOMR 09-03-1797P
Tributary No. 1 of Trout Creek	At the confluence with Trout Creek	Approximately 500 feet upstream of Pennsylvania Turnpike	Rational Method	HEC-2	12/1/1974	AE	
Tributary No.2 of Trout Creek	At the confluence with Trout Creek	Approximately 200 feet downstream of E Swedesford Road	Rational Method	HEC-2	12/1/1974	AE	
Tributary to East Branch Brandywine Creek	At the confluence with East Branch Brandywine Creek	Approximately 1,640 feet upstream of Creek Road	HEC-HMS 3.5	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Tributary to Indian Spring Run	Chester County Boundary	Approximately 100 feet downstream of Leary Road	TR-55	HEC-2	12/1/1980	AE	

Table 13: Summary of Hydrologic and Hydraulic Analyses – continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
Tributary to West Branch Brandywine Creek	Approximately 3,000 feet upstream of confluence with West Branch Brandywine Creek	Approximately 800 feet upstream of Telegraph Road	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Trout Creek	Chester County Boundary	Contention Lane	Rational Method	HEC-2	12/1/1974	AE	
Trout Run	At the confluence with East Branch White Clay Creek	Approximately 930 feet upstream of the confluence of Tributary 2 of Trout Run	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE	
Two Log Run	At the confluence with West Branch Brandywine Creek	Approximately 150 feet upstream of Beaver Dam Road	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Valley Creek No. 1	At the County Boundary	Approximately 900 feet upstream of Church Road	Other	HEC-2	12/5/1990	AE	
Valley Creek No. 2	Approximately 600 feet downstream of confluence of Colebrook Run	Approximately 2,300 feet upstream of Valley Creek Blvd.	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
Valley Creek No.3	Approximately 2,600 feet downstream of Main Street	Approximately 150 feet upstream of State Route 41	TR-55	HEC-2	*	AE W/ Floodway	
Valley Run	At the confluence with Beaver Creek	Just downstream of North Caln Road	HEC-HMS	HEC-RAS 4.1.0	1/3/2012	AE with Floodway	
Waln Run	At the confluence with West Fork of East Branch Chester Creek	Approximately 4,000 feet upstream of confluence with West Fork of East Branch Chester Creek	Other	WSP-2	9/1/1976	AE	

* Information not available

Table 13: Summary of Hydrologic and Hydraulic Analyses – continued

Flooding Source	Study Limits Downstream Limit	Study Limits Upstream Limit	Hydrologic Model or Method Used	Hydraulic Model or Method Used	Date Analyses Completed	Flood Zone on FIRM	Special Considerations
West Branch Brandywine Creek (Lower Reach)	At the confluence with Brandywine Creek	Approximately 250 feet upstream of Wagontown Road	Pennsylvania Regression / Gage weighted Regression Analysis	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	Hydraulic model was calibrated to USGS gage rating curve
West Branch Brandywine Creek (Upper Reach)	Approximately 4,000 feet downstream of South Birdell Road	Just downstream of US Highway 322	Pennsylvania Regression / Gage weighted Regression Analysis	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	Hydraulic model was calibrated to USGS gage rating curve
West Branch Red Clay Creek	At the confluence with Red Clay Creek	just upstream of State Route 926	Pennsylvania Regression	HEC-RAS 4.1	8/10/2015	AE W/ Floodway	
West Branch Ridley Creek	At the confluence with Ridley Creek	Approximately 350 feet upstream of Hershey Mill Road	Other	HEC-2	1/1/1977	AE	
West Fork of East Branch Chester Creek	At the confluence of East Branch Chester Creek	Approximately 700 feet downstream of Piedmont Road	Other	HEC-2/WSP-2	*	AE	
West Town Road Run	At the confluence with Goose Creek	Approximately 350 feet upstream of the confluence with Goose Creek	Other	HEC-RAS	12/28/2006	AE	
West Tributary to Buck Run	At the confluence with Buck Run	Approximately 350 feet downstream of Lincoln Highway	Effective Flow	HEC-RAS 4.1	8/10/2015	AE	
West Tributary to Crum Creek	At the confluence with Crum Creek	just downstream of Paoli Pike	Other	HEC-2	10/1/1979	AE	

* Information not available

Table 14: Roughness Coefficients

Flooding Source	Channel "n"	Overbank "n"
Beaver Creek	0.035-0.045	0.020-0.12
Beaver Run	0.035	0.050-0.100
Bennetts Run	0.037-0.041	0.035-0.12
Birch Run No. 1	0.045	0.040-0.12
Birch Run No. 2	*	*
Blackhorse Run	0.045	0.030-0.15
Boot Road Run	0.028-0.035	0.040-0.045
Brandywine Creek	0.028-0.032	0.030-0.12
Buck Run	0.04	0.040-0.12
By-Pass Run	*	*
Chathum Run	0.040-0.048	0.030-0.12
Clarks Creek	0.028-0.035	0.040-0.045
Colebrook Run	0.040-0.045	0.030-0.8
Copeland Run	0.035	0.030-0.12
Cossart Run	0.035-0.04	0.035-0.12
Craig Run	0.040-0.05	0.050-0.12
Crum Creek	0.040-0.050	0.040-0.080
Doe Run	0.04	0.040-0.12
East Branch Brandywine Creek	0.028-0.05	0.030-0.12
East Branch Chester Creek	0.028-0.035	0.040-0.045
East Branch Goose Creek	*	*
East Branch Octoraro Creek	0.045	0.035-0.100
East Branch Red Clay Creek	0.040-0.045	0.040-0.12
East Branch Ridley Creek	0.028-0.035	0.040-0.045
East Branch White Clay Creek	0.040-0.045	0.040-0.12
East Tributary	0.030-0.080	0.030-0.080
East Tributary to Buck Run	0.035	0.040-0.12
East Tributary to Crum Creek	0.040-0.050	0.040-0.080
East Tributary to Darby Creek	0.035-0.085	0.060-0.095
French Creek	0.035-0.085	0.060-0.095
Goose Creek	0.028-0.035	0.040-0.045
Hunters Run	*	*
Indian King Run	0.040-0.045	0.030-0.12
Indian Springs Run	0.035-0.045	0.045-0.085
King James Run	0.028-0.035	0.040-0.045
Lionville Run	0.035-0.06	0.035-0.12
Little Buck Run	0.040-0.045	0.045-0.12
Little Valley Creek	0.015-0.035	0.1
Marshall Manor Tributary	0.050-0.060	0.050-0.12
Middle Branch White Clay Creek	0.040-0.045	0.030-0.12
Northeast Branch Ridley Creek	0.040-0.050	0.040-0.080
Officers Run	0.050-0.055	0.045-0.085
Parke Run	0.050-0.045	0.045-0.12
Pickering Creek	0.038-0.050	0.035-0.100
Pigeon Creek	0.030-0.080	0.030-0.080
Pine Creek No. 1	*	*
Pine Creek No. 2	0.045	0.035-0.100

* Not calculated for this Flood Risk Project

Table 14: Roughness Coefficients – continued

Flooding Source	Channel "n"	Overbank "n"
Pocopson Creek	0.035	0.040-0.12
Radley Run	0.040-0.06	0.030-0.12
Red Clay Creek	0.040-0.045	0.040-0.12
Ridley Creek	0.028-0.050	0.040-0.080
Ring Run	0.040-0.05	0.030-0.14
Rock Run	0.045-0.12	0.040-0.12
Schuylkill River	0.025-0.035	0.050-0.230
Shadygrove Way Run	0.028-0.035	0.040-0.045
Shamona Creek	0.045-0.048	0.030-0.12
Shiloh Road Run	0.028-0.035	0.040-0.045
Ship Road Run	0.040-0.045	0.030-0.50
Stackhouse Mill Run	0.040-0.050	0.040-0.080
Stony Brook Run	*	*
Street Road Tributary	*	*
Sucker Run	0.025-0.052	0.025-0.13
Swedesford Road Run	0.040-0.045	0.030-0.12
Taylor Run	0.040-0.045	0.030-0.12
Tributary 1 to Beaver Creek	*	*
Tributary 1 to Red Clay Creek	0.040-0.045	0.040-0.12
Tributary 2 to East Branch Red Clay Creek	0.040-0.045	0.030-0.12
Tributary 6 of Valley Run	*	*
Tributary A to Crum Creek	0.040-0.050	0.040-0.080
Tributary A to East Tributary to Darby Creek	0.035-0.060	0.060-0.080
Tributary B to East Tributary to Crum Creek	0.040-0.050	0.040-0.080
Tributary F to Valley Creek	0.040-0.045	0.030-0.50
Tributary No. 1 of Trout Creek	0.035	0.07
Tributary No. 2 of Trout Creek	0.035	0.07
Tributary to East Branch Brandywine Creek	0.048	0.045-0.12
Tributary to Indian Spring Run	0.035-0.045	0.045-0.085
Tributary to West Branch Brandywine Creek	0.045-0.12	0.045-0.12
Trout Creek	0.07	0.015-0.030
Trout Run	0.04-0.045	0.05-0.12
Two Log Run	0.04	0.05-0.12
Valley Creek No. 1	0.035-0.050	0.070-0.100
Valley Creek No. 2	0.040-0.050	0.03-0.12
Valley Creek No. 3	0.035-0.045	0.060-0.085
Valley Run	0.020-0.050	0.030-0.070
Waln Run	*	*
West Branch Brandywine Creek	0.031-0.055	0.040-0.14
West Branch Red Clay Creek	0.040-0.045	0.030-0.12
West Branch Ridley Creek	0.028-0.035	0.040-0.045
West Fork of East Branch Chester Creek	0.028-0.035	0.040-0.045
West Town Road Run	*	*

* Not calculated for this Flood Risk Project

Table 14: Roughness Coefficients – continued

Flooding Source	Channel “n”	Overbank “n”
West Tributary to Buck Run	0.035-0.12	0.035-0.12
West Tributary to Crum Creek	0.045-0.050	0.040-0.080

5.3 Coastal Analyses

This section is not applicable to this Flood Risk Project.

Table 15: Summary of Coastal Analyses

[Not Applicable to this Flood Risk Project]

5.3.1 Total Stillwater Elevations

This section is not applicable to this Flood Risk Project.

Figure 8: 1% Annual Chance Total Stillwater Elevations for Coastal Areas

[Not Applicable to this Flood Risk Project]

Table 16: Tide Gage Analysis Specifics

[Not Applicable to this Flood Risk Project]

5.3.2 Waves

This section is not applicable to this Flood Risk Project.

5.3.3 Coastal Erosion

This section is not applicable to this Flood Risk Project.

5.3.4 Wave Hazard Analyses

This section is not applicable to this Flood Risk Project.

Table 17: Coastal Transect Parameters

[Not Applicable to this Flood Risk Project]

Figure 9: Transect Location Map

[Not Applicable to this Flood Risk Project]

5.4 Alluvial Fan Analyses

This section is not applicable to this Flood Risk Project.

Table 18: Summary of Alluvial Fan Analyses

[Not Applicable to this Flood Risk Project]

Table 19: Results of Alluvial Fan Analyses

[Not Applicable to this Flood Risk Project]

SECTION 6.0 – MAPPING METHODS

6.1 Vertical and Horizontal Control

All FIS Reports and FIRMs are referenced to a specific vertical datum. The vertical datum provides a starting point against which flood, ground, and structure elevations can be referenced and compared. Until recently, the standard vertical datum used for newly created or revised FIS Reports and FIRMs was the National Geodetic Vertical Datum of 1929 (NGVD29). With the completion of the North American Vertical Datum of 1988 (NAVD88), many FIS Reports and FIRMs are now prepared using NAVD88 as the referenced vertical datum.

Flood elevations shown in this FIS Report and on the FIRMs are referenced to NAVD88. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between NGVD29 and NAVD88 or other datum conversion, visit the National Geodetic Survey website at www.ngs.noaa.gov, or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

Temporary vertical monuments are often established during the preparation of a flood hazard analysis for the purpose of establishing local vertical control. Although these monuments are not shown on the FIRM, they may be found in the archived project documentation associated with the FIS Report and the FIRMs for this community. Interested individuals may contact FEMA to access these data.

To obtain current elevation, description, and/or location information for benchmarks in the area, please contact information services Branch of the NGS at (301) 713-3242, or visit their website at www.ngs.noaa.gov.

The datum conversion locations and values that were calculated for Chester County are provided in Table 20.

In Chester County, the vertical datum was taken from the September 29, 2006, countywide FIS report. The full datum conversion calculation was not available; however, the vertical datum conversion from NGVD29 to NAVD88 is -0.90 feet.

NGVD29 – 0.90 feet = NAVD88

Table 20: Countywide Vertical Datum Conversion

[Not Applicable to this Flood Risk Project]

Table 21: Stream-Based Vertical Datum Conversion

[Not Applicable to this Flood Risk Project]

6.2 Base Map

The FIRMs and FIS Report for this project have been produced in a digital format. The flood hazard information was converted to a Geographic Information System (GIS) format that meets FEMA's FIRM database specifications and geographic information standards. This information is provided in a digital format so that it can be incorporated into a local GIS and be accessed more easily by the community. The FIRM Database includes most of the tabular information contained in the FIS Report in such a way that the data can be associated with pertinent spatial features. For example, the information contained in the Floodway Data table and Flood Profiles can be linked to the cross sections that are shown on the FIRMs. Additional information about the FIRM Database and its contents can be found in FEMA's *Guidelines and Standards for Flood Risk Analysis and Mapping*, http://www.fema.gov/guidelines-and-standards-flood-risk-analysis-and-mapping.

Base map information shown on the FIRM was derived from the sources described in Table 22.

Table 22: Base Map Sources

Data Type	Data Provider	Data Date	Data Scale	Data Description
Digital Orthophoto	Pennsylvania Spatial Data Access, Penn State Institutes of Energy and the Environment	2010	1:12,000	Color orthoimagery was provided for Chester County
Political boundaries	Chester County DCIS/GIS	2013	1:2,400	Municipal and county boundaries
Transportation Features	U.S. Department of Commerce, U.S. Census Bureau, Geography Division	2012	1:24,000	Roads and railroads, were derived from 2012 TIGER lines

Table 22: Base Map Sources – continued

Data Type	Data Provider	Data Date	Data Scale	Data Description
Surface Water Features	Dewberry and Davis, LLC	2006	1:12,000	Surface Water Features within restudy areas were updated using 2010 orthoimagery and LiDAR topography Streams, rivers, and lakes outside of restudy areas were derived from effective data
Paneling Scheme, Quad Index	USGS	2006	1:24,000	FIRM Panel scheme and Quad index were derived from USGS 7.5-minute Quadrangle Grid/Index

6.3 Floodplain and Floodway Delineation

The FIRM shows tints, screens, and symbols to indicate floodplains and floodways as well as the locations of selected cross sections used in the hydraulic analyses and floodway computations.

For riverine flooding sources, the mapped floodplain boundaries shown on the FIRM have been delineated using the flood elevations determined at each cross section; between cross sections, the boundaries were interpolated using the topographic elevation data described in Table 23.

In cases where the 1% and 0.2% annual chance floodplain boundaries are close together, only the 1% annual chance floodplain boundary has been shown. Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

The floodway widths presented in this FIS Report and on the FIRM were computed for certain stream segments on the basis of equal conveyance reduction from each side of the floodplain. Floodway widths were computed at cross sections. Between cross sections, the floodway boundaries were interpolated. Table 2 indicates the flooding sources for which floodways have been determined. The results of the floodway computations for those flooding sources have been tabulated for selected cross sections and are shown in Table 24, “Floodway Data.”

Table 23: Summary of Topographic Elevation Data used in Mapping

Community	Flooding Source	Source for Topographic Elevation Data			
		Description	Scale	Contour Interval	Citation
Chester County	All detailed flooding sources within HUC 02040205	Light Detection and Ranging data (LiDAR)	N/A	2 ft	PA Department of Conservation and Natural Resources, Bureau of Topographic and Geologic Survey, 2008
Chester County	All Zone A flooding sources within Chester County	Digital Elevation Model (DEM)	N/A	N/A	United States Geological Survey, 10-Meter DEM, 2004
Chester County	All detailed flooding sources outside of HUC 02040205	Various topographic maps	Varies	Varies	Federal Emergency Management Agency, Flood Insurance Study, Chester County, Pennsylvania (All Jurisdictions), September 29, 2006

BFEs shown at cross sections on the FIRM represent the 1% annual chance water surface elevations shown on the Flood Profiles and in the Floodway Data tables in the FIS Report. Rounded whole-foot elevations may be shown on the FIRM in areas of ponding, and other areas with static base flood elevations.

Table 24: Floodway Data

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/ SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	627	327	1,714	2.7	237.8	236.5[2]	237.2	0.7
B	2,970	380	1,570	3.0	241.3	241.3	242.2	0.9
C	6,869	299	1,735	2.3	250.3	250.3	251.1	0.8
D	8,971	378	1,428	2.7	253.2	253.2	253.9	0.7
E	11,247	344	1,327	3.0	258.1	258.1	259.1	1.0
F	13,637	338	982	3.1	265.3	265.3	266.1	0.7
G	14,838	627	1,012	3.0	272.0	272.0	272.3	0.3
H	15,722	444	767	4.0	280.1	280.1	280.8	0.7
I	20,717	49	319	7.6	353.0	353.0	353.4	0.4
J	21,262	53	223	10.8	359.7	359.7	359.7	0.0
K	21,834	28	196	12.3	369.1	369.1	369.1	0.0
L	22,283	63	220	11.0	375.8	375.8	375.8	0.0
M	22,966	38	190	12.7	385.4	385.4	385.4	0.0
N	23,342	98	277	8.7	397.5	397.5	397.6	0.1
O	23,755	55	224	10.8	403.7	403.7	403.7	0.0
P	24,196	59	375	6.4	411.4	411.4	411.8	0.4
Q	24,875	191	585	4.1	420.8	420.8	421.8	1.0
R	26,120	104	380	4.1	427.6	427.6	427.9	0.3
S	27,375	111	294	5.2	436.3	436.3	436.7	0.4
T	29,265	105	309	5.0	445.7	445.7	446.5	0.8
U	29,832	80	314	4.9	450.2	450.2	450.7	0.5
V	30,994	120	433	3.6	455.8	455.8	456.6	0.8
W	32,315	126	310	5.0	462.0	462.0	462.5	0.5

[1] Stream distance in feet above confluence with East Branch Brandywine Creek
[2] Elevation computed without consideration of backwater effects from East Branch Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: BEAVER CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
X	33,308	75	332	4.6	468.0	468.0	468.6	0.6
Y	34,226	37	160	2.6	473.6	473.6	474.3	0.7
Z	35,796	27	74	5.6	477.0	477.0	477.0	0.0

[1] Stream distance in feet above confluence with East Branch Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: BEAVER CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	9,950	37	152	9.9	376.3	376.3	376.8	0.5
B	10,460	86	328	4.6	383.7	383.7	383.7	0.0
C	13,160	154	449	2.5	397.3	397.3	398.2	0.9
D	16,640	102	419	2.3	436.2	436.2	436.7	0.5

[1] Stream distance in feet above confluence with French Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: BEAVER RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,079	250	1,851	1.2	177.1	177.1	177.3	0.2
B	1,884	194	612	3.4	180.2	180.2	180.6	0.4
C	3,009	178	394	5.4	186.6	186.6	187.4	0.8
D	3,922	130	571	3.7	192.5	192.5	193.2	0.7
E	4,696	110	354	4.7	197.7	197.7	198.5	0.8
F	5,550	148	470	3.6	203.8	203.8	204.4	0.6
G	6,830	110	340	4.8	210.8	210.8	211.3	0.5
H	7,821	115	281	5.7	216.9	216.9	217.7	0.8
I	8,373	124	593	2.7	223.5	223.5	224.5	1.0
J	9,204	100	328	4.9	230.7	230.7	230.8	0.1
K	10,623	113	359	4.1	238.2	238.2	238.3	0.1
L	11,615	122	404	3.6	244.2	244.2	244.6	0.4
M	12,125	30	124	11.6	247.8	247.8	247.8	0.0
N	13,027	300	1,374	1.1	262.1	262.1	262.2	0.1

[1] Stream distance in feet above confluence with Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: BENNETTS RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	5,421	508	3,412	1.0	587.6	587.6	588.6	1.0
B	6,184	280	901	3.9	587.9	587.9	588.6	0.7
C	7,160	358	914	2.4	592.8	592.8	592.8	0.0
D	7,979	170	461	4.7	598.6	598.6	598.7	0.1
E	8,881	162	437	5.0	604.7	604.7	605.2	0.5
F	9,517	261	1,180	1.7	610.8	610.8	611.0	0.2

[1] Stream distance in feet above Hibernia Dam

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: BIRCH RUN NO.1

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,853	216	745	0.9	418.8	418.8	419.5	0.7
B	2,713	85	287	2.3	421.7	421.7	422.2	0.5
C	4,060	62	87	6.0	423.9	423.9	424.0	0.1
D	5,242	135	185	2.0	434.4	434.4	434.6	0.2
E	5,877	70	280	1.3	444.0	444.0	444.1	0.1
F	6,367	50	267	1.4	451.2	451.2	452.1	0.9

[1] Stream distance in feet above confluence with West Branch Ridley Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: BOOT ROAD RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	560	401	6,614	5.0	154.0	154.0	154.6	0.6
B	7,546	665	8,591	3.8	157.9	157.9	158.6	0.7
C	11,491	603	7,520	4.3	160.4	160.4	161.2	0.8
D	18,067	541	6,639	4.8	164.0	164.0	164.6	0.6
E	21,810	975	10,827	2.9	166.6	166.6	167.5	0.9
F	25,752	518	7,329	4.3	171.3	171.3	171.9	0.6
G	32,702	1,067	11,183	2.8	174.2	174.2	174.9	0.7
H	35,719	1,643	12,888	2.4	175.2	175.2	175.9	0.7
I	40,161	1,242	11,257	2.6	177.8	177.8	178.6	0.8
J	46,336	1,371	10,810	2.6	181.7	181.7	182.6	0.9
K	48,317	523	5,324	5.3	182.5	182.5	183.2	0.7
L	51,175	578	5,917	4.8	185.7	185.7	186.3	0.6

[1] Stream distance in feet above County Boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: BRANDYWINE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	19	*	*	*	282.6	282.6	*	*
B	648	*	*	*	285.6	285.6	*	*
C	1,680	*	*	*	287.8	287.8	*	*
D	12,778	214	2,027	3.5	324.8	324.8	325.3	0.5
E	13,476	205	1,325	5.3	332.9	332.9	333.3	0.4
F	16,243	169	1,139	5.9	336.7	336.7	337.7	1.0
G	16,939	257	3,330	2.0	346.5	346.5	346.5	0.0
H	20,907	150	1,042	6.4	349.7	349.7	350.7	1.0
I	23,429	196	1,541	4.3	359.7	359.7	360.1	0.4
J	25,332	72	793	8.4	365.0	365.0	365.5	0.5
K	26,814	163	1,093	4.8	368.6	368.6	369.5	0.9
L	27,916	121	489	10.8	372.2	372.2	372.3	0.1
M	28,390	88	1,307	4.0	378.0	378.0	378.8	0.8
N	28,729	254	1,077	4.9	384.2	384.2	384.7	0.5
O	29,245	177	1,931	2.7	392.3	392.3	393.1	0.9
P	30,994	301	2,683	1.9	392.8	392.8	393.7	0.9
Q	31,874	125	1,015	5.1	393.3	393.3	394.1	0.8
R	33,498	174	1,668	3.1	402.1	402.1	402.1	0.0
S	35,072	85	624	7.7	405.2	405.2	406.2	1.0
T	37,133	199	1,205	4.0	412.9	412.9	413.4	0.5
U	38,726	209	1,557	2.9	420.4	420.4	421.1	0.7
V	42,162	281	842	5.3	426.4	426.4	426.5	0.1
W	43,751	119	583	7.4	432.1	432.1	432.3	0.2
X	45,015	98	581	7.4	437.8	437.8	437.9	0.1
Y	46,001	106	664	6.5	444.3	444.3	444.3	0.0
Z	46,867	345	2,056	1.6	446.4	446.4	446.6	0.2

[1] Stream distance in feet above limit of detailed study, limit of detailed study is approximately 350 feet downstream of Doe Run Church Road

*Floodway not computed/shown for this cross section

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: BUCK RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	350	120	529	5.5	269.7	269.1[2]	269.2	0.1
B	2,160	256	1,189	2.5	274.6	274.6	275.6	1.0
C	3,651	224	1,043	2.7	281.1	281.1	281.7	0.6
D	5,306	209	857	3.3	283.8	283.8	284.7	0.9
E	6,317	169	1,048	2.7	288.5	288.5	289.2	0.7
F	7,484	206	1,114	2.5	291.6	291.6	292.6	1.0
G	8,714	210	1,013	2.7	296.7	296.7	297.5	0.8
H	10,163	205	1,419	1.9	303.5	303.5	303.7	0.2
I	11,472	282	1,025	2.6	305.2	305.2	305.7	0.5
J	12,860	260	1,193	1.9	312.5	312.5	312.6	0.1
K	14,380	274	2,015	1.1	320.5	320.5	320.9	0.4
L	17,067	153	704	3.0	330.0	330.0	330.2	0.2
M	18,090	73	401	5.3	335.3	335.3	336.0	0.7
N	19,158	75	353	5.6	341.1	341.1	341.5	0.4
O	20,097	93	530	3.7	345.4	345.4	345.9	0.5
P	20,896	98	453	4.0	350.2	350.2	350.5	0.3
Q	21,653	90	308	5.8	354.7	354.7	355.5	0.8
R	22,430	113	425	4.2	359.7	359.7	360.1	0.4
S	23,194	100	256	7.0	363.4	363.4	363.9	0.5
T	24,207	197	527	3.4	370.7	370.7	370.9	0.2
U	24,933	120	403	4.4	375.8	375.8	376.1	0.3
V	25,486	120	516	3.5	379.4	379.4	379.8	0.4
W	26,429	85	262	5.4	384.4	384.4	384.9	0.5
X	27,032	104	290	4.9	388.2	388.2	388.5	0.3
Y	27,811	35	144	9.8	393.6	393.6	393.7	0.1
Z	28,544	55	220	6.0	402.4	402.4	402.5	0.1
AA	28,975	75	244	5.2	406.0	406.0	406.1	0.1
AB	29,619	47	363	3.5	415.5	415.5	415.5	0.0

[1] Stream distance in feet above confluence with East Branch White Clay Creek

[2] Elevation computed without consideration of backwater effects from East Branch White Clay Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: CHATHUM RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AC	30,415	60	192	6.6	419.8	419.8	419.8	0.0
AD	31,092	135	384	3.3	427.1	427.1	427.5	0.4
AE	31,730	54	197	6.5	433.2	433.2	433.7	0.5
AF	32,404	90	245	4.1	440.7	440.7	441.0	0.3
AG	32,852	70	187	5.3	445.9	445.9	446.1	0.2
AH	33,360	45	131	7.6	454.2	454.2	454.2	0.0
AI	33,810	76	189	5.3	461.9	461.9	462.0	0.1
AJ	34,433	95	271	3.7	468.9	468.9	469.2	0.3
AK	34,776	163	298	3.3	476.9	476.9	476.9	0.0
AL	35,143	134	238	4.2	483.7	483.7	484.2	0.5
AM	35,520	99	249	4.0	491.1	491.1	492.0	0.9
AN	35,831	65	148	6.7	496.3	496.3	496.4	0.1
AO	36,219	60	217	4.6	503.1	503.1	503.1	0.0
AP	36,628	51	142	7.0	508.2	508.2	508.7	0.5

[1] Stream distance in feet above confluence with East Branch White Clay Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: CHATHUM RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	475	134	844	1.5	380.9	376.1[2]	376.1	0.0
B	4,488	60	204	3.1	407.8	407.8	408.8	1.0

[1] Stream distance in feet above confluence with East Branch Chester Creek

[2] Elevation computed without consideration of backwater effects from East Branch Chester Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: CLARKS CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,634	260	2,011	0.5	278.9	278.9	278.9	0.0
B	3,564	125	376	2.8	281.0	281.0	281.3	0.3
C	4,393	73	153	6.7	286.5	286.5	286.5	0.0
D	4,643	134	422	2.5	289.5	289.5	289.9	0.4
E	5,176	100	170	5.1	302.3	302.3	302.7	0.4
F	6,171	243	232	3.7	308.8	308.8	309.0	0.2
G	6,806	119	191	4.4	318.3	318.3	318.6	0.3
H	7,175	180	211	4.0	325.9	325.9	326.7	0.8
I	7,731	60	133	6.3	338.9	338.9	339.6	0.7
J	7,907	55	127	6.6	345.7	345.7	345.7	0.0
K	8,098	60	269	3.1	352.7	352.7	353.6	0.9

[1] Stream distance in feet above confluence with Valley Creek No. 2

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: COLEBROOK CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	715	*	*	*	248.8	248.8	*	*
B	1,521	*	*	*	262.4	262.4	*	*
C	1,797	*	*	*	268.8	268.8	*	*
D	2,202	134	183	4.2	275.6	275.6	275.6	0.0
E	2,492	45	73	5.5	281.0	281.0	281.2	0.2
F	2,799	44	59	6.8	286.0	286.0	286.0	0.0
G	3,205	*	*	*	301.6	301.6	*	*

[1] Stream distance in feet above the confluence with Beaver Creek

* Floodway not computed/shown for this cross section

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: COPELAND RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,015	140	313	5.5	159.8	159.8	159.8	0.0
B	2,399	90	417	4.2	163.1	163.1	163.2	0.1
C	3,283	153	924	1.8	172.2	172.2	172.8	0.6

[1] Stream distance in feet above confluence with Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: COSSART RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,079	153	446	3.3	163.8	163.8	163.8	0.0
B	1,713	93	299	4.9	169.5	169.5	169.7	0.2
C	2,450	118	303	4.9	176.8	176.8	177.2	0.4
D	2,912	136	469	3.1	181.3	181.3	181.9	0.6
E	3,290	149	1,153	1.3	188.3	188.3	188.9	0.6

[1] Stream distance in feet above confluence with Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: CRAIG RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	700	120[2]	630	7.5	236.1	236.1	237.1	1.0
B	7,080	140[2]	470	8.9	272.1	272.1	272.5	0.4
C	9,200	270[2]	1,392	3.0	284.1	284.1	285.1	1.0
D	12,900	532	740	5.6	294.9	294.9	295.7	0.8
E	14,250	198	547	6.9	303.5	303.5	303.7	0.2
F	16,720	182	512	6.0	330.0	330.0	330.0	0.0
G	18,040	108	720	3.9	336.7	336.7	336.7	0.0
H	19,770	150	410	6.9	355.3	355.3	355.6	0.3
I	22,320	195	1,382	2.0	369.7	369.7	370.3	0.6
J	23,510	81	317	7.0	372.9	372.9	373.6	0.7
K	25,060	164	814	2.7	377.5	377.5	378.2	0.7
L	27,660	150	1,028	2.2	390.6	390.6	391.2	0.6
M	31,160	100	358	4.1	414.3	414.3	414.9	0.6
N	33,920	197	969	0.9	436.3	436.3	437.2	0.9
O	35,110	130	291	2.6	444.8	444.8	445.0	0.2
P	37,240	48	81	7.5	461.6	461.6	461.7	0.1

[1] Stream distance in feet above county boundary

[2] This width extends beyond county boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: CRUM CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	42	290	1,726	3.9	265.3	265.3	266.0	0.7
B	2,870	172	1,055	5.7	271.5	271.5	272.4	0.9
C	4,865	189	1,226	4.9	278.4	278.4	279.2	0.8
D	5,971	371	2,400	2.5	285.0	285.0	285.3	0.3
E	8,692	306	1,232	4.8	290.7	290.7	291.5	0.8
F	10,704	554	1,652	3.5	295.9	295.9	296.4	0.5
G	11,834	474	1,330	4.4	300.7	300.7	301.3	0.6
H	13,296	356	1,064	5.5	307.3	307.3	307.9	0.6
I	15,595	668	1,099	4.5	313.5	313.5	314.3	0.8
J	17,379	508	1,690	2.9	323.0	323.0	323.9	0.9
K	18,297	280	2,376	2.1	332.4	332.4	332.7	0.3
L	20,236	173	843	5.9	339.1	339.1	339.2	0.1
M	21,556	134	615	8.0	348.9	348.9	349.2	0.3
N	23,131	110	480	10.3	355.5	355.5	355.7	0.2
O	24,590	131	656	7.2	363.8	363.8	364.4	0.6
P	25,569	173	840	5.6	370.9	370.9	371.2	0.3
Q	26,860	142	673	6.6	377.2	377.2	377.5	0.3
R	27,870	149	511	8.8	385.1	385.1	385.1	0.0
S	29,268	237	677	6.3	391.0	391.0	391.4	0.4
T	29,897	217	699	6.1	394.1	394.1	394.2	0.1
U	30,691	119	553	7.8	398.3	398.3	399.2	0.9
V	31,905	158	511	8.4	405.2	405.2	405.4	0.2
W	32,536	271	901	4.8	408.7	408.7	409.5	0.8
X	33,054	138	453	9.0	412.0	412.0	412.1	0.1

[1] Stream distance in feet above limit of detailed study, limit of detailed study is approximately 1000 feet upstream of confluence with Buck Run

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: DOE RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	4,647	427	2,698	4.7	185.9	185.9	186.6	0.7
B	8,613	552	3,519	3.5	190.1	190.1	190.8	0.7
C	11,921	513	4,151	3.0	194.3	194.3	195.0	0.7
D	18,477	206	1,829	6.3	200.6	200.6	201.2	0.6
E	25,559	246	1,760	5.3	206.9	206.9	207.6	0.7
F	29,835	135	1,371	6.8	212.6	212.6	213.2	0.6
G	32,879	140	1,513	5.8	216.8	216.8	217.5	0.7
H	39,086	165	1,521	5.8	222.9	222.9	223.8	0.9
I	42,516	247	1,792	4.9	228.5	228.5	228.9	0.4
J	47,146	412	2,465	3.4	236.5	236.5	237.2	0.7
K	49,165	460	1,064	6.5	238.5	238.5	239.1	0.6
L	51,301	212	790	8.7	247.3	247.3	247.3	0.0
M	53,900	177	928	7.2	255.5	255.5	256.2	0.7
N	56,415	182	1,398	4.8	260.7	260.7	261.3	0.6
O	59,159	111	849	7.5	266.5	266.5	266.9	0.4
P	61,501	126	654	8.4	271.9	271.9	272.1	0.2
Q	64,628	165	1,138	4.9	279.3	279.3	279.6	0.3
R	67,068	153	727	7.8	286.2	286.2	286.5	0.3
S	69,221	92	687	8.3	294.5	294.5	294.8	0.3
T	71,533	121	614	9.2	301.6	301.6	301.7	0.1
U	73,610	145	785	7.2	308.5	308.5	309.0	0.5
V	75,538	495	2,043	2.8	316.6	316.6	316.8	0.2
W	77,141	197	665	8.5	323.4	323.4	323.5	0.1
X	78,530	310	1,252	3.3	330.7	330.7	330.8	0.1
Y	81,045	150	491	8.5	337.5	337.5	337.8	0.3
Z	83,301	108	515	8.1	344.7	344.7	344.7	0.0
AA	85,107	186	845	4.9	352.3	352.3	352.3	0.0
AB	86,851	257	1,006	4.1	359.1	359.1	359.1	0.0
AC	89,100	87	433	8.6	363.2	363.2	363.4	0.2

[1] Stream distance in feet above confluence with Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH BRANDYWINE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AD	90,940	140	672	5.5	371.7	371.7	372.1	0.4
AE	91,508	145	424	8.7	376.0	376.0	376.0	0.0
AF	91,913	66	320	11.6	383.9	383.9	384.1	0.2
AG	92,783	52	191	7.5	388.6	388.6	388.6	0.0
AH	93,853	67	220	6.5	396.1	396.1	396.1	0.0
AI	94,763	73	253	5.6	404.0	404.0	404	0.0
AJ	95,787	95	310	4.6	411.1	411.1	411.1	0.0
AK	96,667	56	198	7.2	417.4	417.4	417.4	0.0
AL	97,429	66	230	6.2	423.3	423.3	423.4	0.1
AM	98,761	127	482	2.9	430.4	430.4	431.0	0.6
AN	100,148	62	240	5.9	438.3	438.3	438.3	0.0
AO	102,234	261	1,259	1.1	446.2	446.2	446.2	0.0
AP	104,637	100	251	3.0	446.7	446.7	447.0	0.3
AQ	107,587	668	11,480	0.5	480.8	480.8	480.8	0.0
AR	113,714	941	7,022	0.7	481.0	481.0	481.0	0.0
AS	117,266	256	1,079	4.4	487.6	487.6	488.1	0.5
AT	119,387	331	1,011	4.7	495.9	495.9	496	0.1
AU	119,990	375	1,285	2.1	500.5	500.5	500.5	0.0
AV	121,622	215	699	3.9	508.0	508.0	508.1	0.1
AW	122,601	131	328	8.3	516.8	516.8	516.8	0.0
AX	123,406	49	274	9.9	523.5	523.5	523.5	0.0
AY	124,182	46	274	9.9	528.5	528.5	528.6	0.1
AZ	124,651	215	742	3.7	533.9	533.9	533.9	0.0
BA	125,614	95	299	9.0	538.6	538.6	538.6	0.0
BB	126,597	84	262	10.3	547.8	547.8	547.8	0.0
BC	127,791	76	370	4.8	554.0	554.0	554.6	0.6
BD	128,549	92	405	4.4	558.5	558.5	559.0	0.5
BE	130,031	109	474	3.7	565.2	565.2	566.0	0.8
BF	132,578	104	170	6.2	571.1	571.1	571.3	0.2

[1] Stream distance in feet above confluence with Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH BRANDYWINE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BG	133,067	64	137	7.7	581.4	581.4	581.8	0.4
BH	135,076	128	296	3.6	588.5	588.5	589.0	0.5
BI	137,387	70	159	0.7	594.9	594.9	595.3	0.4
BJ	138,551	19	38	2.7	596.0	596.0	596.1	0.1

[1] Stream distance in feet above confluence with Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH BRANDYWINE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	803	272	2,242	4.7	251.8	251.8	252.8	1.0
B	2,504	602	5,380	2.0	252.7	252.7	253.7	1.0
C	3,712	359	3,343	3.1	253.6	253.6	254.6	1.0
D	5,169	535	2,920	2.0	253.7	253.7	254.7	1.0
E	6,157	429	2,424	2.4	253.9	253.9	254.9	1.0
F	11,827	185	870	5.9	264.8	264.8	265.8	1.0
G	22,651	221	1,445	3.0	329.0	329.0	330.0	1.0
H	26,770	243	1,338	2.8	353.0	353.0	354.0	1.0
I	28,354	147	740	5.1	361.3	361.3	362.2	0.9
J	31,680	77	423	9.0	368.9	368.9	369.9	1.0
K	35,534	32	195	10.8	382.7	382.7	383.4	0.7
L	41,131	640	1,790	0.8	418.4	418.4	418.4	0.0
M	43,454	50	390	3.7	435.6	435.6	435.6	0.0

[1] Stream distance in feet above county boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH CHESTER CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,109	65	206	1.5	400.1	400.1	400.1	0.0

[1] Stream distance in feet above confluence with Goose Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH GOOSE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	180	85	735	7.4	457.9	457.9	458.9	1.0
B	1,610	275	1,385	3.9	463.5	463.5	464.3	0.8

[1] Stream distance in feet above State Route 372

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH OCTORARO CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	630	255	1,445	2.9	206.9	206.9	207.8	0.9
B	2,068	276	1,423	2.9	212.4	212.4	213.2	0.8
C	3,954	146	812	5.1	221.3	221.3	221.5	0.2
D	5,935	208	1,375	2.9	230.0	230.0	230.4	0.4
E	9,068	145	936	4.0	237.5	237.5	238.4	0.9
F	11,538	180	832	3.2	245.0	245.0	245.8	0.8
G	12,756	43	206	11.9	255.6	255.6	255.7	0.1
H	13,197	30	195	12.6	272.3	272.3	272.3	0.0
I	13,959	130	673	3.6	281.1	281.1	281.3	0.2
J	15,956	80	459	5.0	287.8	287.8	288.1	0.3
K	17,638	370	1,893	1.2	293.3	293.3	293.3	0.0
L	19,854	48	326	6.9	300.8	300.8	301.8	1.0
M	21,972	100	459	4.3	307.1	307.1	307.5	0.4
N	23,428	80	417	4.7	314.6	314.6	315.2	0.6
O	24,997	240	1,480	1.3	325.0	325.0	325.0	0.0
P	26,928	150	655	2.8	330.4	330.4	331.0	0.6
Q	28,434	125	589	2.7	336.0	336.0	336.6	0.6
R	29,930	135	305	4.7	340.2	340.2	340.7	0.5

[1] Stream distance in feet above confluence with Red Clay Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH RED CLAY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	3,379	130	595	3.5	393.4	393.4	394.4	1.0
B	5,544	91	275	7.6	400.4	400.4	401.3	0.9
C	8,448	79	290	3.6	418.2	418.2	419.2	1.0

[1] Stream distance in feet above confluence with Ridley Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH RIDLEY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2	412	3,373	2.0	251.8	251.8	252.4	0.6
B	3,886	540	4,810	1.4	257.5	257.5	258.1	0.6
C	9,784	246	1,696	3.6	264.5	264.5	265.2	0.7
D	14,979	507	3,199	1.9	269.5	269.5	270.3	0.8
E	16,214	253	1,267	4.4	270.9	270.9	271.6	0.7
F	18,340	272	1,843	2.3	275.0	275.0	275.9	0.9
G	20,288	281	1,370	3.1	278.4	278.4	279.1	0.7

[1] Stream distance in feet above limit of detailed study, limit of detailed study is approximately 6000 feet downstream of New Garden Station Road

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST BRANCH WHITE CLAY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	150	200	461	3.4	187.3	182.6[2]	183.4	0.8
B	1,940	28	122	11.8	213.5	213.5	213.5	0.0
C	3,650	110	287	4.2	236.2	236.2	236.6	0.4
D	5,550	50	149	8.2	266.7	266.7	266.9	0.2
E	7,650	21	76	8.2	284.5	284.5	284.7	0.2

[1] Stream distance in feet above confluence with Pigeon Creek
[2] Elevation computed without consideration of backwater effects from Pigeon Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST TRIBUTARY

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	30	65	189	6.0	390.6	386.3[2]	387.1	0.8
B	1,120	284	953	1.0	404.3	404.3	404.3	0.0
C	1,790	100	157	4.9	406.8	406.8	406.8	0.0
D	3,420	60	116	5.7	425.4	425.4	425.4	0.0
E	5,640	75	383	1.3	457.0	457.0	457.8	0.8

[1] Stream distance in feet above the confluence with Crum Creek
[2] Elevation computed without consideration of backwater effects from Crum Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST TRIBUTARY TO CRUM CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	250	385	951	1.5	344.9	344.9	345.7	0.8
B	2,240	201	359	3.6	360.9	360.9	361.2	0.3
C	2,610	170	675	1.9	365.6	365.6	365.6	0.0
D	3,530	80	236	4.9	373.1	373.1	373.6	0.5
E	5,290	31	71	8.7	394.2	394.2	394.2	0.0
F	6,390	71	93	5.4	416.3	416.3	416.3	0.0

[1] Stream distance in feet above confluence with Darby Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: EAST TRIBUTARY TO DARBY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	405	94	1,017	14.6	98.3	87.4 [2]	87.5	0.1
B	975	268	1,518	9.8	98.3	94.0 [2]	94.1	0.1
C	1,830	143	1,705	8.7	98.3	98.3	98.9	0.6
D	2,175	135	1,690	8.8	103.5	103.5	104.5	1.0
E	3,230	204	2,145	6.9	108.1	108.1	108.7	0.6
F	3,863	396	2,920	5.1	110.4	110.4	110.8	0.4
G	4,745	352	2,981	5.0	111.3	111.3	112.1	0.8
H	5,710	131	2,100	7.0	113.5	113.5	113.6	0.1
I	6,570	147	2,416	6.1	114.6	114.6	114.7	0.1
J	7,440	144	2,645	5.6	115.5	115.5	115.6	0.1
K	8,415	256	4,315	3.4	116.1	116.1	116.5	0.4
L	10,000	300	4,674	3.2	116.5	116.5	117.2	0.7
M	11,270	250	3,927	3.6	116.8	116.8	117.8	1.0
N	11,680	261	3,330	4.3	117.7	117.7	118.2	0.5
O	11,780	226	2,944	4.8	118.0	118.0	118.5	0.5
P	13,120	219	2,941	4.8	118.6	118.6	119.4	0.8
Q	14,570	295	3,565	4.0	119.6	119.6	120.5	0.9
R	15,580	314	3,189	4.5	120.4	120.4	121.4	1.0
S	15,900	280	2,659	5.4	121.0	121.0	121.7	0.7
T	17,160	419	3,793	3.8	122.3	122.3	123.2	0.9
U	18,200	420	3,419	4.2	123.0	123.0	124.0	1.0
V	18,590	415	2,608	5.5	125.7	125.7	125.7	0.0
W	20,140	218	2,027	6.8	128.3	128.3	129.3	1.0
X	21,420	215	2,165	6.4	130.8	130.8	131.7	0.9
Y	22,490	194	1,769	7.8	133.8	133.8	134.3	0.5
Z	23,670	430	3,273	4.2	136.3	136.3	137.3	1.0
AA	23,940	391	2,565	5.4	136.9	136.9	137.6	0.7

[1] Stream distance in feet above the confluence with Schuylkill River
[2] Elevation computed without consideration of backwater effects from Schuylkill River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: FRENCH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AB	27,670[1]	500	3,616	3.6	147.9	147.9	148.2	0.3
AC	29,030[1]	204	1,698	7.7	148.9	148.9	149.9	1.0
AD	29,750[1]	113	1,331	9.9	150.1	150.1	151.1	1.0
AE	30,755[1]	125	1,264	10.4	152.9	152.9	153.8	0.9
AF	31,765[1]	175	1,971	6.7	158.8	158.8	158.9	0.1
AG	32,765[1]	225	2,100	6.3	160.5	160.5	161.2	0.7
AH	33,725[1]	302	2,283	5.8	161.7	161.7	162.7	1.0
AI	34,825[1]	325	2,412	5.5	165.9	165.9	165.9	0.0
AJ	35,765[1]	145	1,717	7.5	167.9	167.9	168.0	0.1
AK	37,055[1]	150	1,575	8.1	170.0	170.0	170.5	0.5
AL	37,695[1]	210	1,679	7.6	171.5	171.5	172.5	1.0
AM	39,065[1]	350	3,238	4.0	177.6	177.6	178.4	0.8
AN	39,825[1]	400	3,262	3.8	179.0	179.0	179.8	0.8
AO	40,955[1]	550	2,288	5.4	182.2	182.2	182.6	0.4
AP	41,845[1]	400	2,384	5.2	187.1	187.1	188.1	1.0
AQ	42,530[1]	200	1,339	9.0	191.7	191.7	191.7	0.0
AR	43,230[1]	173	1,284	9.3	195.5	195.5	196.4	0.9
AS	44,250[1]	225	1,303	9.2	200.8	200.8	200.8	0.0
AT	45,175[1]	225	1,697	7.1	204.8	204.8	205.2	0.4
AU	5,130[2]	430	5,825	1.6	259.2	259.2	260.2	1.0
AV	7,020[2]	690	6,165	1.5	259.5	259.5	260.5	1.0
AW	9,680[3]	615	2,800	2.7	293.1	293.1	293.6	0.5
AX	10,605[3]	300	3,390	2.2	306.8	306.8	306.8	0.0
AY	12,105[3]	140	940	8.1	316.7	316.7	316.8	0.1
AZ	14,990[3]	160	1,525	5.0	418.0	418.0	418.5	0.5
BA	15,570[3]	285	2,905	2.6	419.2	419.2	419.9	0.7

[1] Stream distance in feet above the confluence with Schuylkill River
[2] Stream distance in feet above Township of South Coventry corporate limits
[3] Stream distance in feet above County Park Road

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: FRENCH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
BB	16,375	410	4,040	1.9	419.8	419.8	420.6	0.8
BC	18,395	535	2,645	2.8	421.0	421.0	421.8	0.8
BD	21,150	315	2,340	3.2	431.4	431.4	432.1	0.7
BE	24,000	310	2,045	3.7	445.4	445.4	445.6	0.2

[1]Stream distance in feet above County Park Road

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: FRENCH CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,901	200	950	3.2	269.9	269.9	270.9	1.0
B	4,224	45	231	13.0	284.9	284.9	285.5	0.6
C	6,653	50	375	8.0	315.2	315.2	316.2	1.0
D	7,339	29	219	13.7	321.4	321.4	321.9	0.5
E	12,408	56	381	9.9	345.5	345.5	346.5	1.0
F	14,098	31	161	11.2	387.5	387.5	387.5	0.0
G	16,051	153	1,224	0.9	400.7	400.7	401.7	1.0
H	17,952	36	165	6.8	404.1	404.1	405.1	1.0
I	19,430	66	225	4.0	413.1	413.1	413.8	0.7

[1] Stream distance in feet above the confluence with West Fork of East Branch Chester Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: GOOSE CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	416	290	684	1.3	281.7	280.9[2]	281.4	0.5
B	1,403	88	151	6.1	287.9	287.9	288.0	0.1
C	2,537	45	148	6.2	296.0	296.0	296.1	0.1
D	3,630	66	166	5.5	305.6	305.6	305.6	0.0
E	4,367	119	247	3.7	312.1	312.1	312.6	0.5
F	5,014	138	225	4.2	320.2	320.2	320.2	0.0
G	5,777	110	236	3.9	327.0	327.0	327.6	0.6
H	8,093	25	111	7.3	367.1	367.1	367.1	0.0

[1] Stream distance in feet above confluence with Valley Creek No. 2
[2] Elevation computed without consideration of backwater effects from Valley Creek No. 2

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: INDIAN KING RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	15,302	80	264	2.3	506.8	506.8	507.6	0.8
B	23,702	88	515	1.2	529.8	529.8	530.4	0.6
C	60,202	20	63	9.4	582.9	582.9	583.1	0.2

[1] Stream distance in feet above county boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: INDIAN SPRING RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	898	50	100	3.5	468.7	468.7	468.7	0.0
B	1,742	50	165	2.1	484.4	484.4	484.4	0.0

[1] Stream distance in feet above confluence with West Branch Ridley Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: KING JAMES RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	528	60	216	8.0	289.9	289.2[2]	289.2	0.0
B	1,034	60	337	5.2	295.3	295.3	295.8	0.5
C	1,660	133	317	5.5	298.3	298.3	298.3	0.0
D	2,363	265	551	3.2	301.8	301.8	302.3	0.5
E	3,346	365	463	3.7	309.2	309.2	309.7	0.5
F	4,182	260	497	2.9	319.8	319.8	320.0	0.2
G	5,068	38	176	8.1	332.4	332.4	332.5	0.1
H	5,282	81	246	5.7	336.6	336.6	336.6	0.0
I	5,995	125	341	4.2	346.0	346.0	347.0	1.0
J	6,582	120	433	3.3	351.2	351.2	352.2	1.0
K	7,261	59	187	6.8	359.9	359.9	359.9	0.0
L	7,828	74	182	7.0	372.6	372.6	372.6	0.0
M	8,272	24	118	10.8	380.9	380.9	380.9	0.0
N	8,578	25	117	10.9	385.8	385.8	386.1	0.3

[1] Stream distance in feet above confluence with Valley Creek No. 2
[2] Elevation computed without consideration of backwater effects from Valley Creek No. 2

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: LIONVILLE RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	5	135	363	4.6	469.3	469.3	470.1	0.8
B	1,096	210	433	3.8	474.9	474.9	475.5	0.6
C	2,864	178	327	3.7	480.7	480.7	481.2	0.5
D	3,880	106	298	4.0	486.7	486.7	487.7	1.0
E	4,516	38	121	9.7	496.5	496.5	496.5	0.0
F	6,380	35	114	10.3	528.2	528.2	528.2	0.0
G	6,706	32	111	10.6	537.3	537.3	537.3	0.0
H	7,427	51	181	6.5	557.5	557.5	557.5	0.0
I	7,770	81	188	6.3	565.2	565.2	565.2	0.0
J	8,105	84	162	7.2	573.1	573.1	573.1	0.0
K	8,353	175	1,813	0.7	584.4	584.4	584.4	0.0
L	9,156	126	235	4.7	591.1	591.1	591.1	0.0

[1] Stream distance in feet above limit of detailed study, limit of detailed study is approximately 1000 feet upstream of Western Avenue

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: LITTLE BUCK RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,060	119	469	6.6	141.0	141.0	141.7	0.7
B	2,395	198	997	3.1	150.1	150.1	150.8	0.7
C	3,300	93	415	5.9	158.3	158.3	159.3	1.0
D	4,626	102	493	5.0	166.1	166.1	167.1	1.0
E	6,376	96	477	5.1	178.6	178.6	179.6	1.0
F	8,728	124	332	7.4	194.4	194.4	194.7	0.3
G	10,569	131	789	3.1	208.7	208.7	209.6	0.9
H	12,892	116	360	6.8	226.3	226.3	227.1	0.8
I	15,042	120	496	4.9	240.9	240.9	241.7	0.8

[1] Stream distance in feet above confluence with Valley Creek No. 1

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: LITTLE VALLEY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	119	217	893	5.2	300.8	300.8	300.8	0.0
B	1,876	240	1,322	3.5	308.1	308.1	308.4	0.3
C	2,885	205	1,115	3.9	312.3	312.3	313.0	0.7
D	4,715	190	1,001	4.3	319.7	319.7	320.6	0.9
E	5,942	225	768	5.1	327.2	327.2	327.4	0.2
F	7,530	160	884	4.5	334.2	334.2	334.8	0.6
G	9,116	185	964	3.9	340.6	340.6	341.0	0.4
H	11,568	205	975	3.9	348.8	348.8	349.4	0.6
I	13,658	280	1,189	3.0	355.5	355.5	356.4	0.9
J	15,175	170	1,004	3.5	362.3	362.3	363.0	0.7
K	16,831	240	1,047	3.4	367.0	367.0	367.6	0.6
L	18,423	127	430	7.0	373.7	373.7	373.7	0.0
M	19,603	190	1,145	2.6	380.8	380.8	380.8	0.0
N	21,311	142	491	6.2	387.5	387.5	388.0	0.5
O	21,917	170	1,108	2.6	393.9	393.9	394.7	0.8
P	23,058	235	2,255	1.3	403.0	403.0	403.0	0.0
Q	25,777	180	929	3.1	408.2	408.2	409.1	0.9
R	27,617	254	966	2.5	414.6	414.6	415.0	0.4
S	29,805	468	809	2.3	422.0	422.0	422.8	0.8
T	30,917	100	431	4.1	430.5	430.5	431.4	0.9
U	31,762	132	344	5.2	435.4	435.4	435.7	0.3
V	32,661	183	571	3.1	443.5	443.5	444.4	0.9
W	33,507	185	457	3.9	450.1	450.1	450.9	0.8
X	34,293	129	306	5.1	457.6	457.6	457.9	0.3
Y	35,009	120	256	6.1	464.8	464.8	464.8	0.0
Z	35,829	130	244	6.2	470.4	470.4	470.5	0.1

[1] Stream distance in feet above limit of detailed study, limit of detailed study is approximately 2200 feet downstream of East Avondale Road

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: MIDDLE BRANCH WHITE CLAY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	36,423	130	293	5.2	476.4	476.4	476.8	0.4
AB	37,240	118	355	4.3	483.8	483.8	484.5	0.7
AC	37,538	80	268	5.4	487.0	487.0	487.7	0.7

[1] Stream distance in feet above limit of detailed study, limit of detailed study is approximately 2200 feet downstream of East Avondale Road

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: MIDDLE BRANCH WHITE CLAY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	120	110	312	1.5	452.6	452.6	452.6	0.0
B	570	101	260	1.8	452.6	452.6	452.6	0.0
C	2,020	90	185	2.5	471.0	471.0	471.9	0.9
D	4,805	20	23	5.7	522.2	522.2	522.2	0.0

[1] Stream distance in feet above Township Line Road

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: NORTHEAST BRANCH RIDLEY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,105	87	328	3.6	460.0	460.0	460.0	0.0
B	1,645	65	231	5.1	463.3	463.3	463.3	0.0
C	3,110	70	300	3.9	481.0	481.0	481.0	0.0
D	3,765	58	192	6.1	487.0	487.0	487.6	0.6
E	4,460	35	114	10.3	501.6	501.6	501.6	0.0
F	5,360	56	206	5.7	515.2	515.2	515.6	0.4

[1] Stream distance in feet above confluence with Valley Creek No. 3

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: OFFICERS RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	538	91	242	3.6	234.9	234.9	235.0	0.1
B	890	64	374	2.3	238.0	238.0	238.0	0.0
C	2,611	34	144	5.2	242.4	242.4	242.7	0.3
D	4,860	161	389	1.9	247.0	247.0	247.8	0.8
E	6,471	98	190	3.9	253.1	253.1	253.4	0.3
F	7,726	90	212	2.5	261.6	261.6	261.7	0.1
G	8,206	77	149	3.6	264.1	264.1	264.7	0.6

[1] Stream distance in feet above confluence with East Branch Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: PARKE RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,210[1]	713	10,073	1.0	109.1	109.1	109.1	0.0
B	2,880[1]	771	10,902	0.9	109.1	109.1	109.1	0.0
C	3,850[1]	793	12,969	0.7	109.1	109.1	109.1	0.0
D	4,790[1]	565	8,343	1.2	109.1	109.1	109.1	0.0
E	6,070[1]	478	4,900	2.0	109.2	109.2	109.2	0.0
F	7,530[1]	474	3,094	3.1	109.5	109.5	109.5	0.0
G	8,480[1]	422	2,441	3.9	110.2	110.2	110.2	0.0
H	9,080[1]	366	2,313	4.2	110.9	110.9	110.9	0.0
I	9,920[1]	394	2,484	3.9	111.7	111.7	111.7	0.0
J	10,880[1]	267	1,863	4.8	112.7	112.7	112.7	0.0
K	11,168[1]	250	2,196	4.1	114.3	114.3	114.3	0.0
L	12,410[1]	280	2,279	4.0	115.1	115.1	115.4	0.3
M	13,550[1]	445	2,537	3.6	116.0	116.0	117.0	1.0
N	14,960[1]	300	1,462	5.7	119.0	119.0	120.0	1.0
O	15,760[1]	294	1,254	6.6	123.3	123.3	123.6	0.3
P	16,500[1]	273	1,458	5.7	126.3	126.3	126.8	0.5
Q	16,667[1]	280	1,939	4.3	129.5	129.5	129.5	0.0
R	18,280[1]	170	1,750	4.7	139.0	139.0	139.4	0.4
S	20,045[1]	295	1,050	7.9	146.8	146.8	146.8	0.0
T	20,625[1]	175	1,115	7.4	152.0	152.0	152.2	0.2
U	23,425[1]	300	1,615	5.1	166.9	166.9	167.6	0.7
V	24,625[1]	190	970	8.6	173.6	173.6	174.0	0.4
W	27,265[1]	160	1,460	5.7	185.3	185.3	185.8	0.5
X	0[2]	162	1,288	6.7	201.6	201.6	202.4	0.8
Y	200[2]	247	1,694	5.1	202.7	202.7	203.6	0.9
Z	1,050[2]	300	1,541	5.6	205.0	205.0	205.8	0.8
AA	2,340[2]	400	2,088	4.0	209.4	209.4	209.9	0.5

[1] Stream distance in feet above confluence with Schuylkill River
[2] Stream distance in feet above Township of East Pikeland Corporate limits

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: PICKERING CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AB	3,060	300	1,021	8.1	212.4	212.4	212.4	0.0
AC	3,600	188	1,047	7.9	219.2	219.2	219.6	0.4
AD	4,240	170	1240	6.7	222.5	222.5	222.5	0.0
AE	4,460	180	1587	5.2	224.7	224.7	224.7	0.0
AF	4,680	152	1316	6.3	224.9	224.9	224.9	0.0
AG	5,180	250	2241	3.7	225.6	225.6	226.0	0.4
AH	5,890	365	2876	2.9	226.0	226.0	226.9	0.9
AI	6,590	538	3894	2.1	226.5	226.5	227.4	0.9
AJ	7,140	472	3152	2.6	226.8	226.8	227.7	0.9
AK	8,720	530	3,193	2.6	230.0	230.0	230.9	0.9
AL	4,005	480	2,641	2.0	243.4	243.4	243.9	0.5
AM	6,475	174	1,047	5.1	247.2	247.2	247.6	0.4
AN	9,365	114	771	6.2	259.1	259.1	259.6	0.5
AO	10,215	193	1,481	2.8	267.8	267.8	267.8	0.0
AP	11,925	273	1,963	2.1	270.6	270.6	271.3	0.7
AQ	13,735	184	1,394	2.9	278.6	278.6	278.7	0.1
AR	14,950	423	1,750	2.3	280.2	280.2	280.6	0.4
AS	17,510	263	943	4.3	286.9	286.9	287.3	0.4
AT	21,887	253	811	5.0	302.7	302.7	303.6	0.9
AU	22,195	370	2,338	1.7	308.7	308.7	309.6	0.9
AV	25,345	447	1,816	2.2	322.7	322.7	323.4	0.7
AW	26,949	251	1,801	2.3	332.2	332.2	332.7	0.5
AX	27,889	227	1,238	3.3	335.0	335.0	335.6	0.6

[1] Stream distance in feet above Township of East Pikeland Corporate limits

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: PICKERING CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	750	450	1,507	6.2	120.7	114.1[2]	114.9	0.8
B	2,390	160	1,789	5.2	123.4	123.4	124.2	0.8
C	4,290	550	3,737	2.4	125.2	125.2	126.1	0.9
D	5,870	275	1,534	6.0	127.5	127.5	128.1	0.6
E	7,560	495	3,476	2.6	131.4	131.4	132.1	0.7
F	8,510	260	1,058	8.6	134.0	134.0	134.8	0.8
G	10,100	320	1,926	4.5	142.4	142.4	143.3	0.9
H	12,100	128	754	11.5	147.9	147.9	147.9	0.0
I	13,740	245	2,093	4.1	157.6	157.6	158.6	1.0
J	14,740	200	1,488	5.8	160.2	160.2	161.0	0.8
K	16,380	410	2,871	2.9	169.6	169.6	170.4	0.8
L	18,025	220	1,743	4.1	173.7	173.7	174.4	0.7
M	20,400	280	2,000	3.2	186.1	186.1	186.7	0.6
N	23,510	350	1,031	5.6	196.3	196.3	197.1	0.8
O	24,030	250	1,146	5.1	200.3	200.3	201.3	1.0
P	24,610	400	1,612	3.6	203.4	203.4	204.1	0.7
Q	25,300	95	536	10.8	206.8	206.8	207.3	0.5

[1] Stream distance in feet above confluence with Schuylkill River
[2] Elevation computed without consideration of backwater effects from Schuylkill River

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: PIGEON CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	9,400	145	425	3.2	344.7	344.7	345.5	0.8
B	9,545	175	875	1.6	347.1	347.1	347.6	0.5
C	11,345	200	710	1.9	357.9	357.9	358.9	1.0
D	13,745	25	90	7.9	385.0	385.0	386.0	1.0

[1] Stream distance in feet above confluence with Pickering Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: PINE CREEK NO.1

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	170	50	240	6.8	463.6	463.6	464.6	1.0
B	670	60	695	2.4	474.9	474.9	475.0	0.1
C	2,000	135	460	3.6	476.7	476.7	477.6	0.9
D	2,690	165	730	2.2	481.2	481.2	482.2	1.0
E	3,140	140	245	6.7	482.2	482.2	483.0	0.8

[1] Stream distance in feet above confluence with East Branch Octoraro Creek and Williams Run

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: PINE CREEK NO. 2

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	328	210	1,964	2.2	177.9	177.9	178.4	0.5
B	1,086	313	2,602	1.7	178.1	178.1	178.8	0.7
C	3,402	237	745	5.9	181.6	181.6	182.2	0.6
D	3,989	191	1,554	2.8	189.2	189.2	189.6	0.4

[1] Stream distance in feet above confluence with Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: POCOPSON CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	76	260	2,198	4.4	193.1	193.1	193.4	0.3
B	1,266	110	1,232	7.9	198.8	198.8	198.9	0.1
C	2,737	184	1,803	5.4	202.5	202.5	203.5	1.0

[1] Stream distance in feet above state boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: RED CLAY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	78,250	520[2]	2430	2.3	225.4	225.4	225.8	0.4
B	79,622	385[2]	2510	2.3	226.9	226.9	227.9	1.0
C	103,066	*	*	*	*	*	*	*
D	104,069	155	812	4.4	362.8	362.8	363.8	1.0
E	106,286	80	367	5.7	372.6	372.6	373.6	1.0

[1] Stream distance in feet above confluence with Delaware River
[2] This width extends beyond county boundary
[*] Floodway not computed/shown for this cross section

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: RIDLEY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,012	125	1,184	1.5	172.8	172.8	173.4	0.6
B	3,001	127	346	5.2	179.2	179.2	179.8	0.6
C	3,787	82	236	7.2	185.2	185.2	185.4	0.2
D	4,419	160	499	3.4	191.2	191.2	191.2	0.0
E	4,818	34	143	10.9	196.8	196.8	197.1	0.3
F	5,111	61	363	4.3	201.1	201.1	201.5	0.4

[1] Stream distance in feet above confluence with Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: RING RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	354	138	763	5.4	334.5	334.1[2]	334.8	0.7
B	580	110	508	8.0	335.6	335.6	335.8	0.2
C	1,006	88	498	8.2	342.4	342.4	342.6	0.2
D	1,229	132	603	6.8	350.5	350.5	350.5	0.0
E	2,061	185	961	4.2	356.4	356.4	357.2	0.8
F	2,599	145	598	6.8	363.7	363.7	363.7	0.0
G	3,033	120	500	8.2	370.1	370.1	370.2	0.1
H	3,401	125	485	8.3	375.5	375.5	376.4	0.9
I	3,766	256	1,678	2.4	383.1	383.1	383.1	0.0
J	4,401	55	367	10.9	389.1	389.1	389.5	0.4
K	4,772	104	513	7.8	396.3	396.3	396.3	0.0
L	5,152	153	598	6.7	402.2	402.2	402.2	0.0
M	5,579	113	610	6.6	405.8	405.8	405.8	0.0

[1] Stream distance in feet above confluence with West Branch Brandywine Creek
[2] Elevation computed without consideration of backwater effects from West Branch Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: ROCK RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH[2] (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	160,893	509	12,561	8.7	87.9	87.9	88.6	0.7
B	164,985	600	13,619	8.0	90.3	90.3	90.9	0.6
C	169,400	700	15,151	4.9	93.5	93.5	94.3	0.8
D	174,464	1080	23,995	3.1	95.2	95.2	96.1	0.9
E	181,418	930	19,655	3.8	97.0	97.0	97.8	0.8
F	187,790	620	13,538	4.7	98.6	98.6	99.6	1.0
G	190,531	770	14,849	4.3	99.2	99.2	100.1	0.9
H	197,919	530	12,172	5.2	102.4	102.4	103.2	0.8
I	202,901	500	10,012	6.3	103.8	103.8	104.6	0.8
J	207,802	690	15,243	4.2	106.3	106.3	107.0	0.7
K	211,227	610	11,392	5.6	106.9	106.9	107.6	0.7
L	213,681	790	14,097	4.5	107.9	107.9	108.5	0.6
M	217,670	450	8,904	7.1	108.9	108.9	109.7	0.8
N	221,565	1070	16,053	3.9	111.9	111.9	112.8	0.9
O	224,506	890	15,721	4.0	112.6	112.6	113.5	0.9
P	229,602	565	9,370	6.8	113.9	113.9	114.8	0.9
Q	233,360	570	13,166	4.8	117.4	117.4	118.2	0.8
R	240,498	680	13,326	4.8	120.2	120.2	121.2	1.0
S	243,644	700	11,526	5.5	120.9	120.9	121.8	0.9
T	246,332	800	13,572	4.7	122.7	122.7	123.5	0.8
U	252,684	700	10,651	6.0	124.3	124.3	125.3	1.0
V	254,801	700	11,442	5.5	125.7	125.7	126.5	0.8
W	257,704	650	9,348	6.8	127.0	127.0	127.7	0.7
X	260,553	650	11,930	5.3	129.2	129.2	129.7	0.5
Y	263,948	650	9,262	6.8	130.9	130.9	131.2	0.3
Z	267,912	650	11,876	5.3	132.3	132.3	133.2	0.9

[1] Stream distance in feet above the confluence with the Delaware River
[2] This width extends beyond county boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SCHUYLKILL RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH[2] (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
AA	273,394	680	12,075	5.3	136.0	136.0	136.6	0.6
AB	276,189	940	15,413	4.1	137.7	137.7	138.1	0.4
AC	279,640	450	8,382	7.6	138.7	138.7	139.5	0.8
AD	285,370	830	14,251	3.9	142.9	142.9	143.7	0.8
AE	289,260	835	14,333	3.9	144.0	144.0	145.0	1.0
AF	292,261	478	8,218	6.8	145.2	145.2	146.0	0.8
AG	295,019	420	9,782	5.7	147.0	147.0	147.6	0.6

[1] Stream distance in feet above the confluence with the Delaware River
[2] This width extends beyond county boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SCHUYLKILL RIVER

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	2,376	100	155	7.7	277.2	277.2	277.2	0.0
B	4,488	81	314	3.8	293.2	293.2	293.2	0.0

[1] Stream distance in feet above the confluence with East Branch Chester Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SHADYGROVE WAY RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	76	90	304	6.1	269.8	267.8[2]	268.7	0.9
B	413	105	433	4.3	276.4	276.4	277.3	0.9
C	773	70	229	8.1	282.0	282.0	282.1	0.1
D	1,215	48	215	8.6	288.9	288.9	289.9	1.0
E	1,424	60	273	6.8	292.9	292.9	293.0	0.1
F	1,777	49	225	8.3	299.0	299.0	299.1	0.1

[1] Stream distance in feet above the confluence with East Branch Brandywine Creek
[2] Elevation computed without consideration of backwater effects from East Branch Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SHAMONA CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,162	30	525	3.0	290.6	290.6	290.6	0.0

[1] Stream distance in feet above the confluence with Goose Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SHILOH ROAD RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	701	127	190	4.5	312.1	312.1	312.3	0.2
B	878	118	165	5.1	313.6	313.6	313.6	0.0
C	1,496	154	1,085	0.8	324.3	324.3	325.2	0.9
D	2,643	107	218	3.9	331.1	331.1	331.8	0.7
E	3,578	114	192	4.4	341.2	341.2	342.1	0.9
F	4,060	114	252	3.4	349.5	349.5	349.8	0.3
G	4,621	280	311	2.7	355.8	355.8	356.2	0.4
H	4,854	261	322	2.6	358.4	358.4	359.1	0.7
I	5,374	67	281	3.0	369.2	369.2	370.0	0.8

[1] Stream distance in feet above confluence with Valley Creek No. 2

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SHIP ROAD RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,637	20	114	11.0	297.1	297.1	297.9	0.8
B	2,957	20	132	9.5	314.3	314.3	315.0	0.7

[1] Stream distance in feet above the confluence with East Branch Chester Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: STONY BROOK RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	350	120	457	2.1	255.3	255.3	256.3	1.0
B	2,000	68	249	3.9	264.5	264.5	265.5	1.0
C	3,650	40	186	2.2	273.5	273.5	274.5	1.0

[1] Stream distance in feet above the confluence with East Branch Chester Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: STREET ROAD TRIBUTARY

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,744	110	587	4.1	311.6	311.6	312.6	1.0
B	2,571	27	181	11.9	315.2	315.2	315.7	0.5
C	3,152	82	268	8.1	320.5	320.5	320.5	0.0
D	3,655	35	256	8.4	326.2	326.2	326.5	0.3
E	4,480	57	505	4.3	337.7	337.7	337.7	0.0
F	6,340	33	220	9.8	343.2	343.2	343.7	0.5
G	6,802	41	331	6.5	349.1	349.1	349.1	0.0
H	7,932	108	779	2.8	356.8	356.8	357.0	0.2
I	9,180	85	325	4.4	362.9	362.9	363.2	0.3
J	10,148	59	176	7.2	369.3	369.3	369.3	0.0
K	11,154	106	411	3.0	378.1	378.1	378.7	0.6
L	12,322	116	246	4.6	386.7	386.7	386.7	0.0
M	13,276	83	266	4.2	396.8	396.8	397.2	0.4

[1] Stream distance in feet above confluence with West Branch Brandywine Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SUCKER RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	115	98	293	1.8	311.2	310.5 [2]	311.5	1.0
B	670	66	105	5.0	314.3	314.3	314.4	0.1
C	1,389	100	225	2.3	320.9	320.9	321.7	0.8
D	1,765	92	196	2.7	324.3	324.3	324.4	0.1
E	2,194	102	372	1.3	328.8	328.8	328.8	0.0

[1] Stream distance in feet above confluence with Valley Creek No. 2
[2] Elevation computed without consideration of backwater effects from Valley Creek No. 2

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: SWEDESFORD ROAD RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	346	157	1,290	1.9	247.1	247.1	247.5	0.4
B	1,333	78	262	9.4	250.4	250.4	250.4	0.0
C	1,918	148	426	5.8	256.6	256.6	256.6	0.0

[1] Stream distance in feet above limit of detailed study, limit of detailed study is approximately 200 feet downstream of Highland Road

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TAYLOR RUN

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	49	110	624	4.6	210.0	210.0	210.6	0.6
B	1,291	300	1,365	1.9	216.0	216.0	216.9	0.9
C	2,253	230	778	3.3	219.2	219.2	220.2	1.0
D	3,368	180	549	4.1	225.4	225.4	226.4	1.0
E	4,216	90	353	6.4	232.4	232.4	232.7	0.3
F	4,989	60	264	8.2	240.0	240.0	240.0	0.0
G	5,309	62	280	7.8	246.2	246.2	246.5	0.3

[1] Stream distance in feet above the State boundary

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY 1 TO RED CLAY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	1,557	40	117	6.4	315.9	315.9	316.1	0.2
B	2,141	33	147	5.1	322.5	322.5	322.6	0.1
C	2,684	109	505	1.5	329.9	329.9	330.8	0.9
D	3,378	52	167	4.5	336.5	336.5	336.6	0.1
E	3,764	65	137	5.5	340.4	340.4	340.4	0.0
F	4,292	60	139	5.4	346.8	346.8	346.9	0.1
G	5,225	52	127	5.9	360.3	360.3	360.7	0.4

[1] Stream distance in feet above confluence with East Branch Red Clay Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY 2 TO EAST BRANCH RED CLAY CREEK

LOCATION		FLOODWAY			1% ANNUAL CHANCE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE[1]	WIDTH (FEET)	SECTION AREA (SQ. FEET)	MEAN VELOCITY (FEET/SEC)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
A	780	35	85	8.3	444.4	444.4	445.3	0.9

[1] Stream distance in feet above confluence with Crum Creek

TABLE 24

FEDERAL EMERGENCY MANAGEMENT AGENCY

CHESTER COUNTY, PA

(ALL JURISDICTIONS)

FLOODWAY DATA

FLOODING SOURCE: TRIBUTARY A TO CRUM CREEK