



Mapping Exercise – **Answers**



Answers:

BFEs

Property A = 744.0 feet BFE (Floodway Data Table)

Property B = 740.9 feet BFE (Flood Profile)

Property C = 705.5 feet BFE (Summary of Stillwater Elevations Table)

Instructions:

In this activity, you will need to determine the Base Flood Elevation (BFE) to within a tenth (0.10) of a foot for Properties A, B, and C on the map.

Use the Flood Insurance Rate Map (**FIRM**) *and* the Flood Insurance Study (**FIS**) provided to accurately determine the property's BFE.

All BFEs shown on the FIRM are rounded. For example, a BFE of 100.6' or 101.4' are both displayed on the FIRM as BFE 101'. ***Do not use the FIRM alone to determine BFE.***

1. First locate **Property A** on the FIRM.

- ✓ Determine the name of the stream or watercourse affecting the property.
- ✓ Notice the BFE elevations and the nearest Cross Sections to the site.
- ✓ Using the map and the Flood Insurance Study, locate the stream profile for the site. You should be able to locate your site on the profile in relation to the Cross Sections and BFE data provided on the FIRM.

Find Property A's most upstream limit.

- ✓ To determine which direction is "upstream", refer to the stream profile. You should be able to see the slope of the channel bottom which will help you indicate the direction of flow. Generally, the higher the channel bottom elevations are upstream, and elevations decrease as you move downstream.
- ✓ Similarly, you can determine the direction of flow by looking at the BFEs on the FIRM. The higher BFEs will usually indicate the upstream reaches of the stream or river.
- ✓ The BFE is represented on the FIRM as a squiggly line that crosses the stream with a corresponding number. Remember these numbers have been rounded to the nearest whole foot.

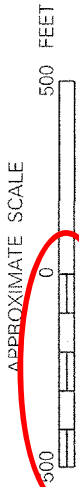
Now locate a Cross Section on the FIRM. ***Cross Sections are indicated perpendicular to the stream center line and are located at various places along the stream.*** The location of Cross Section(s) is made by the engineer who conducts the flood study and will help define the flood zones and factors that affect mapping the SFHA. A Cross Section label will have one or two capital letters. Note: Knowing that the most downstream Cross Section is labeled with the beginning of the alphabet can help you determine the direction of flow and whether a site is upstream or downstream. As Cross Sections are identified on the map heading upstream, the Cross Section labels will progress through the alphabet.

2. Locate Cross Section AI on the FIRM.

3. Using the FIRM and FIS Floodway Data Table, look at the “Regulatory” column. *The Regulatory column provides the BFE* at each Cross Section. (Unlike the FIRM, the BFEs in the Table are not rounded and are accurate within a tenth of a foot.) Find Cross Section AI and determine the Regulatory BFE. You should find that the BFE for Cross Section AI is 744.3’. Note that the BFE on the FIRM near Cross Section AI reads 744’ because it has been rounded to the nearest whole foot. (You may want to write “BFE” next to the “Regulatory” column label as a reminder.)
4. Use a property’s most upstream boundary when determining the BFE. If a property boundary is *on or touching* the nearest Cross Section line, use the FIS Floodway Data Table to determine the most accurate BFE to the nearest tenth of a foot. **This is Property A’s BFE since the building’s most upstream boundary is touching Cross Section AI = 744.0 feet BFE.**
5. For properties (**Property B**) located *between* Cross Sections on the FIRM, you need to determine the property’s upstream and downstream limits relative to the stream profile.
 - ✓ Draw a perpendicular line from the most upstream point of the property to the stream center line. Do the same for the downstream property limit.
 - ✓ *The stream center line is the line drawn down the middle of the stream in the cross hatched section of the FIRM.*
 - ✓ *Note: Remember that Cross Sections and BFEs are depicted on the FIRM with symbols that are perpendicular to the stream centerline.*
 - ✓ Draw a dot where your drawn line and the stream center lines intersect.
6. Using the FIRM scale, measure (in feet) the distance from your dot (on the stream centerline) to the nearest Cross Section. Write this distance down in feet on your scratch paper. Remember to measure distance along the stream center line (which is probably curved), not as a straight line between the dot and the nearest Cross Section.
7. The FIRM Scale and the Flood Profile increments for distance (shown on the horizontal axis of the profile) may differ. For example, the flood profile may measure distance in miles, while the FIRM uses a scale of 1” equals 1000’. Be sure you are accurately assessing measurements to get the correct BFE for a property.
8. Using the Flood Profile, locate the property relative to the nearest Cross Sections. Make sure that you have many any conversions for scale and have located your property correctly upstream or downstream from the nearest Cross Section.
9. Find the Legend on the Flood Profile. To determine the BFE you will need to find the elevation for the 100-year (1% annual chance) flood. In a typical Flood Insurance Study (FIS) there may also be profile data for the 10-year, 50-year, and 500-year floods.

You should now be able to locate Property A in relation to the nearest Cross Section(s) and determine the BFE using the stream profile. Locate the nearest Cross Section on the profile and using your measurement from no. 6 above, place a dot on the 100-year flood profile line. You have now referenced the property to the Flood Profile. The vertical axis of the Profile contains the elevation information expressed in feet.

10. **To determine the BFE to the nearest tenth of a foot, draw a horizontal line from the dot intersecting the 100-year flood profile line to the left vertical axis of the Profile. Use the dot to determine the BFE within a 10th of a foot. This is the BFE for Property B = 740.9 feet BFE.** Be careful to check the increments of the grid behind the profile. Each square may represent 1' or some other increment.
11. Write your BFE measurement for the Property on the FIRM next to the property.
12. NOTE: Properties **(Property C)** located in stillwater (ponds, lakes, storage basins) have a different method for determining BFE. You will need to read / use the FIS to determine BFEs in stillwater locations. **Look at the 1% Annual Flood column on the Summary of Stillwater Elevations Table for Pond 1 in the Village of Burr Ridge. This is the BFE for Property C = 705.5 feet BFE.**



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP
COOK COUNTY,
ILLINOIS
AND INCORPORATED AREAS

PANEL 43 OF 832

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:
 COMMUNITY: PALATINE, VILLAGE OF
 NUMBER: 17354
 PANEL: 0043
 SUFFIX: F

Note to User: The Map Number shown herein should be used in conjunction with the Community Number shown above to identify the specific map sheet which should be used for insurance applications in the subject community.

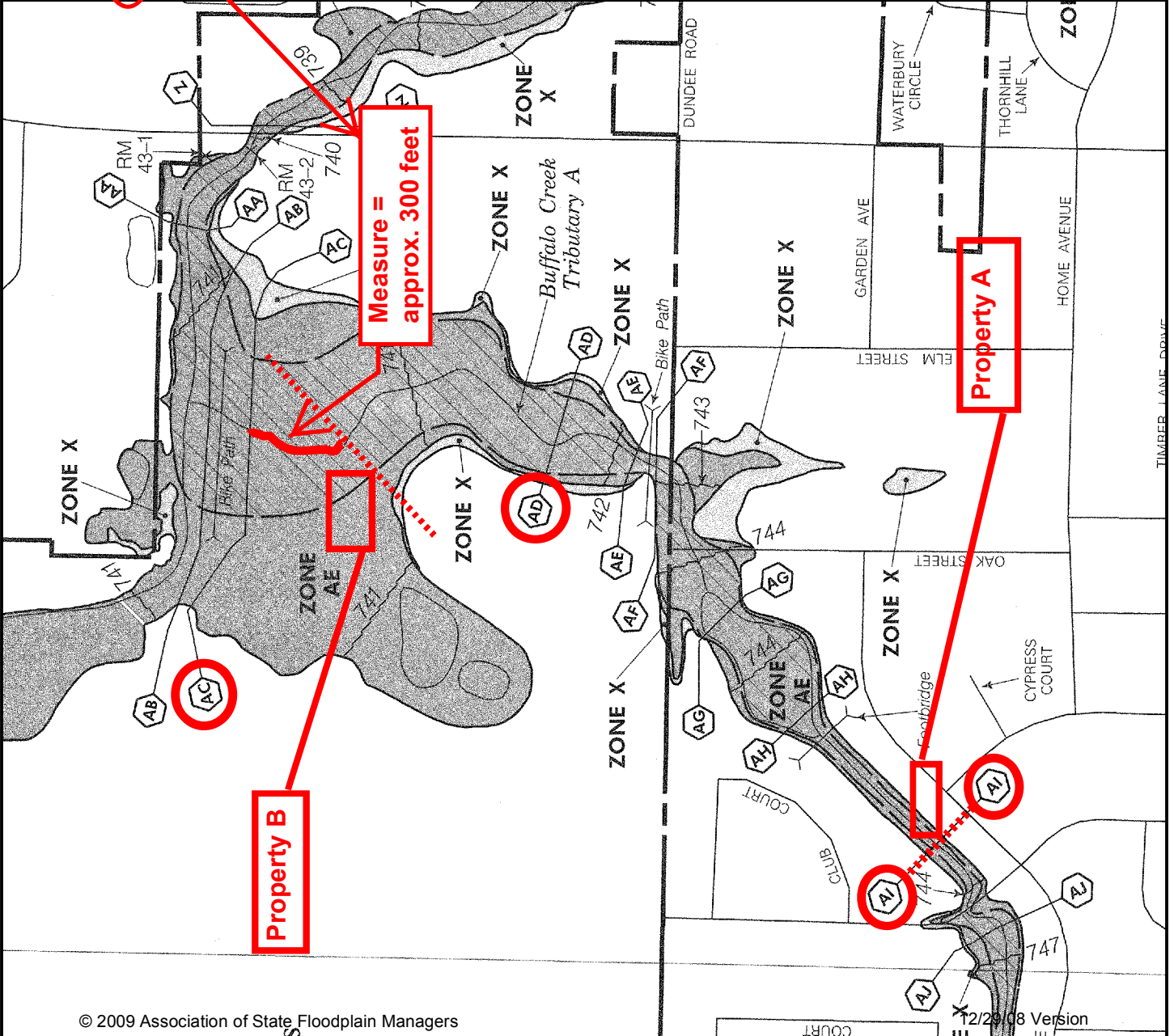
MAP NUMBER
1703100043 F

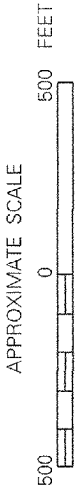
EFFECTIVE DATE:
NOVEMBER 6, 2000



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps, check the FEMA Flood Map Store at www.msc.fema.gov





NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP
 COOK COUNTY,
 ILLINOIS
 AND INCORPORATED AREAS

PANEL 468 OF 832

(SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BURN RIDGE VILLAGE OF	70201	00	F
COOK COUNTY	70054	000	F
INDIAN HEAD PARK VILLAGE OF	70012	000	F

Notes to User: This FIRM NUMBER, shown below, should be used when placing map orders; the COMMUNITY NUMBER shown above should be used on insurance applications for the subject community.

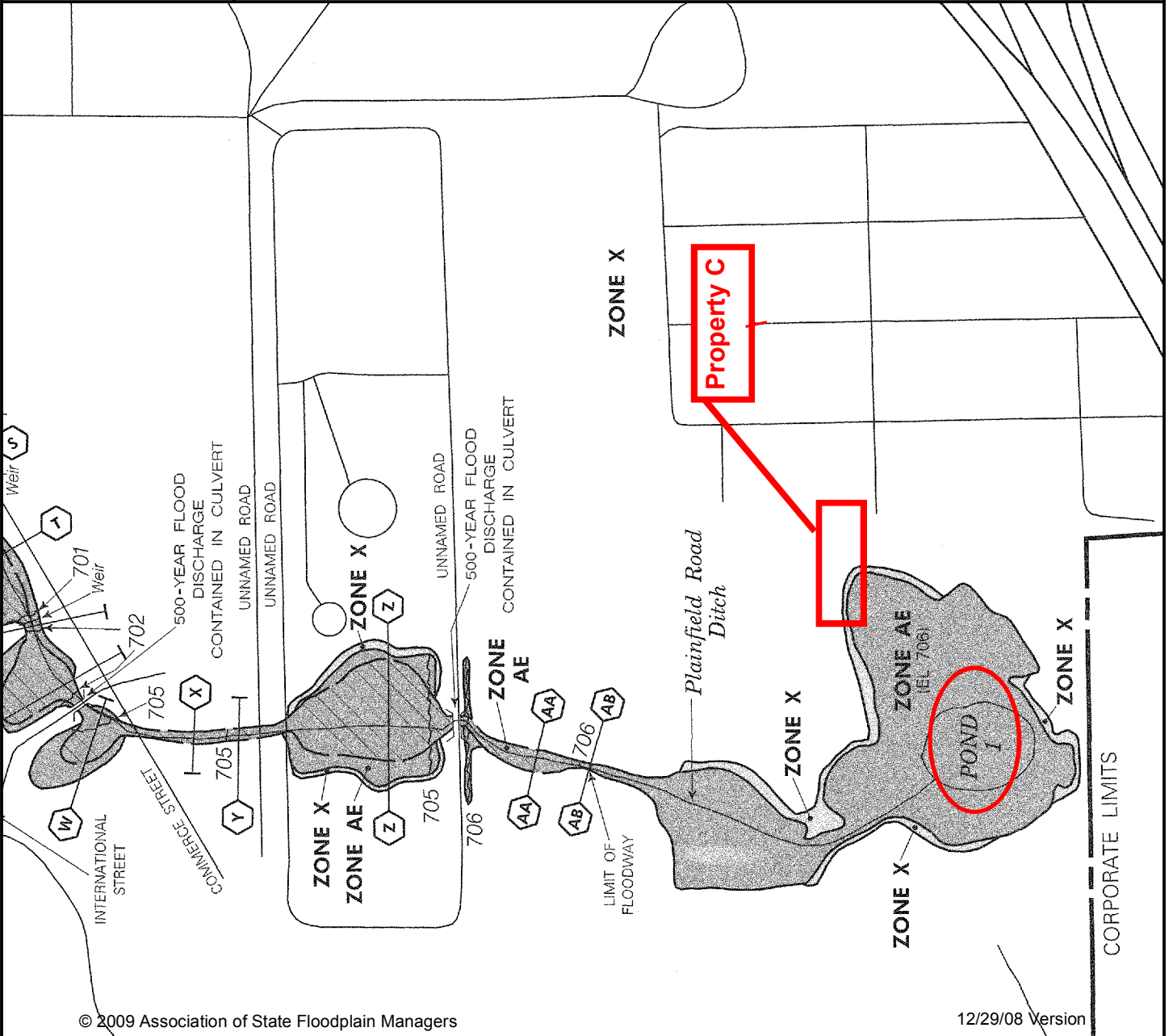
MAP NUMBER
17031C0468 F

EFFECTIVE DATE:
NOVEMBER 6, 2000



Federal Emergency Management Agency

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FLOOD INSURANCE STUDY



COOK COUNTY, ILLINOIS AND INCORPORATED AREAS

Volume 1 of 5

COMMUNITY NAME	COMMUNITY NUMBER	COMMUNITY NAME	COMMUNITY NUMBER	COMMUNITY NAME	COMMUNITY NUMBER	COMMUNITY NAME	COMMUNITY NUMBER
ALSIP, VILLAGE OF	170055	EAST HAZEL CREST, VILLAGE OF	170085	LANSING, VILLAGE OF	170116	PROSPECT HEIGHTS, CITY OF	170919
ARLINGTON HEIGHTS, VILLAGE OF	170056	ELGIN, CITY OF	170087	LEMONT, VILLAGE OF	170117	RIGHTON PARK, VILLAGE OF	170149
BARRINGTON, VILLAGE OF	170057	ELK GROVE VILLAGE, VILLAGE OF	170088	LINCOLNWOOD, VILLAGE OF	171001	RIVER FOREST, VILLAGE OF	170151
BARRINGTON HILLS, VILLAGE OF	170058	* ELMHURST, CITY OF	170205	LYNWOOD, VILLAGE OF	170119	RIVER GROVE, VILLAGE OF	170152
BARTLETT, VILLAGE OF	170059	ELMWOOD PARK, VILLAGE OF	170089	LYONS, VILLAGE OF	170120	RIVERDALE, VILLAGE OF	170150
BEDFORD PARK, VILLAGE OF	171007	EVANSTON, CITY OF	170090	MARKHAM, CITY OF	175169	RIVERSIDE VILLAGE OF	170153
BELLWOOD, VILLAGE OF	170061	* EVERGREEN PARK, VILLAGE OF	170733	MATTESON, VILLAGE OF	170123	ROBBINS, VILLAGE OF	170154
BENSENVILLE, VILLAGE OF	170200	FLOSSMOOR, VILLAGE OF	170091	MAYWOOD, VILLAGE OF	170124	ROLLING MEADOWS, CITY OF	170155
* BERKELEY, VILLAGE OF	171039	FORD HEIGHTS, VILLAGE OF	170084	MCCOOK, VILLAGE OF	170121	* ROSELLE, VILLAGE OF	170216
* BERWYN, CITY OF	171036	FOREST PARK, VILLAGE OF	170092	MELROSE PARK, VILLAGE OF	170125	ROSEMONT, VILLAGE OF	170156
BLUE ISLAND, CITY OF	170064	FOREST VIEW, VILLAGE OF	170093	MERRIONETTE PARK, VILLAGE OF	170126	SAUK VILLAGE, VILLAGE OF	170157
BRIDGEVIEW, VILLAGE OF	170065	* FRANKFORD, VILLAGE OF	170701	MIDLOTHIAN, VILLAGE OF	170127	SCHAUMBURG, VILLAGE OF	170158
BROADVIEW, VILLAGE OF	170067	FRANKLIN PARK, VILLAGE OF	170094	MORTON GROVE, VILLAGE OF	170128	SCHILLER PARK, VILLAGE OF	170159
BROOKFIELD, VILLAGE OF	170066	GLENCOE, VILLAGE OF	170095	MOUNT PROSPECT, VILLAGE OF	170129	SKOKIE, VILLAGE OF	171000
BUFFALO GROVE, VILLAGE OF	170068	GLENVIEW, VILLAGE OF	170096	NILES, VILLAGE OF	170130	SOUTH BARRINGTON, VILLAGE OF	170161
* BURBANK, CITY OF	170069	GLENWOOD, VILLAGE OF	170097	* NORRIDGE, VILLAGE OF	170131	SOUTH CHICAGO HEIGHTS, VILLAGE OF	170162
BURNHAM, VILLAGE OF	170070	GOLF, VILLAGE OF	170098	NORTH RIVERSIDE, VILLAGE OF	170135	SOUTH HOLLAND, VILLAGE OF	170163
BURR RIDGE, VILLAGE OF	170071	HANOVER PARK, VILLAGE OF	170099	NORTHBROOK, VILLAGE OF	170132	STEGER, VILLAGE OF	170173
CALUMET CITY, CITY OF	170072	HARVEY, CITY OF	170100	NORTHFIELD, VILLAGE OF	170133	STICKNEY, VILLAGE OF	170164
CALUMET PARK, VILLAGE OF	170073	* HARWOOD HEIGHTS, VILLAGE OF	170101	NORTHLAKE, CITY OF	170134	STONE PARK, VILLAGE OF	170165
CHICAGO CITY OF	170074	HAZEL CREST, VILLAGE OF	170102	* OAKBROOK, VILLAGE OF	170214	STREAMWOOD, VILLAGE OF	170166
CHICAGO HEIGHTS, VILLAGE OF	170075	HICKORY HILLS, CITY OF	170103	OAK FOREST, CITY OF	170136	SUMMIT, VILLAGE OF	170167
CHICAGO RIDGE, VILLAGE OF	170076	HILLSIDE, VILLAGE OF	170104	OAK LAWN, VILLAGE OF	170137	THORNTON, VILLAGE OF	170168
* CICERO, TOWN OF	170077	HINSDALE, VILLAGE OF	170105	* OAK PARK, VILLAGE OF	170137	TINLEY PARK, VILLAGE OF	170169
COOK COUNTY (UNINCORPORATED AREAS)	170054	HODGKINS, VILLAGE OF	170106	OLYMPIA FIELDS, VILLAGE OF	170139	UNIVERSITY PARK, VILLAGE OF	170708
COUNTRY CLUB HILLS, CITY OF	170078	HOFFMAN ESTATES, VILLAGE OF	170107	ORLAND HILLS, VILLAGE OF	170172	WESTCHESTER, VILLAGE OF	170170
COUNTRYSIDE, CITY OF	170079	* HOMETOWN, CITY OF	171040	ORLAND PARK, VILLAGE OF	175170	WESTERN SPRINGS, VILLAGE OF	170171
CRESTWOOD, VILLAGE OF	170080	HOMEWOOD, VILLAGE OF	170109	PALATINE, VILLAGE OF	170142	WHEELING, VILLAGE OF	170173
* DEER PARK, VILLAGE OF	171028	INDIAN HEAD PARK, VILLAGE OF	170110	PALOS HEIGHTS, CITY OF	170143	WILLOW SPRINGS, VILLAGE OF	170174
DEERFIELD, VILLAGE OF	170361	INVERNESS, VILLAGE OF	170111	PALOS HILLS, CITY OF	170144	WILMETTE, VILLAGE OF	170175
DES PLAINES, CITY OF	170081	JUSTICE, VILLAGE OF	170112	PALOS PARK, VILLAGE OF	170144	WINNETKA, VILLAGE OF	170176
DIXMOOR, VILLAGE OF	170082	KENILWORTH, VILLAGE OF	170113	PARK FOREST, VILLAGE OF	170145	WORTH, VILLAGE OF	170177
DOLTON, VILLAGE OF	170083	LA GRANGE, VILLAGE OF	170114	PARK RIDGE, CITY OF	170146		
* EAST DUNDEE, VILLAGE OF	170323	LA GRANGE PARK, VILLAGE OF	170115	* PHOENIX, CITY OF	170147		
				POSEN, VILLAGE OF	170148		

* NO SPECIAL FLOOD HAZARD AREAS IDENTIFIED WITHIN COOK COUNTY



REVISED: AUGUST 19, 2008

Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
17031CV001G

FLOODING SOURCE		FLOODWAY			1-PERCENT-ANNUAL-CHANCE-FLOOD WATER SURFACE ELEVATION (FEET NAVD)			
CROSS SECTION	DISTANCE	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE (FEET)
Buffalo Creek Tributary A (Cont'd)								
O	12,370 ⁴	161	137	2.9	720.1	720.1	720.2	0.1
P	12,420 ⁴	200	540	0.7	720.2	720.2	720.2	0.0
Q	12,760 ⁴	290	332	1.2	720.8	720.8	720.8	0.0
R	12,850 ⁴	279	450	0.9	721.3	721.3	721.4	0.1
S	13,770 ⁴	209	239	1.3	722.7	722.7	722.8	0.1
T	13,900 ⁴	200	307	1.0	722.9	722.9	722.9	0.0
U	14,400 ⁴	44	82	3.9	724.5	724.5	724.6	0.1
V	14,590 ⁴	30	53	6.0	725.6	725.6	725.6	0.0
W	14,700 ⁴	20	79	3.7	726.7	726.7	726.7	0.0
X	15,110 ⁴	38	82	3.6	729.8	729.8	729.9	0.1
Y	15,210 ⁴	90	283	1.0	731.3	731.3	731.3	0.0
Z	18,050 ⁴	270	195	1.4	739.7	739.7	739.7	0.0
AA	18,552 ⁴	103	168	2.8	740.5	740.5	740.5	0.0
AB	19,195 ⁴	750	1,035	0.4	740.7	740.7	740.7	0.0
AC	19,350 ⁴	508	1,181	0.2	740.7	740.7	740.7	0.0
AD	20,559 ⁴	266	634	0.4	741.1	741.1	741.1	0.0
AE	20,854 ⁴	80	120	2.0	741.9	741.9	742.0	0.1
AF	20,931 ⁴	106	180	1.6	742.2	742.2	742.2	0.0
AG	21,544 ⁴	165	1,044	0.1	743.8	743.8	743.9	0.1
AH	21,949 ⁴	135	945	0.2	743.8	743.8	743.9	0.1
AI	22,548 ⁴	41	201	1.1	744.0	744.0	744.0	0.0

⁴ Feet above mouth

FEDERAL EMERGENCY MANAGEMENT AGENCY

Property A

FLOODWAY DATA

COOK COUNTY, IL
AND INCORPORATED AREAS

BUFFALO CREEK TRIBUTARY A

TABLE 19

The stillwater elevations have been determined for the 10-, 2-, 1-, and 0.2-percent-annual-chance floods for the flooding sources studied by detailed methods and are summarized in Table 15, “Summary of Stillwater Elevations.”

Table 15 – Summary of Stillwater Elevations

<i>Flooding Source and Location</i>	<i>Elevation (feet MVD 88)</i>			
	<i>10-Percent- Annual-Chance</i>	<i>2-Percent- Annual-Chance</i>	<i>1-Percent- Annual-Chance</i>	<i>0.2-Percent- Annual-Chance</i>
Lake Michigan ¹	**	**	584.7	**
City of Chicago Willow Higgins Flood Control Reservoir	**	**	641.9	**
City of Des Plaines Lake Mary Ann	**	**	634.4	**
Dude Ranch Pond	**	**	631.6	**
Bay Colony Pond	**	**	632.7	**
City of Hickory Hills Hickory Hills Reservoir	**	**	623.4	**
Area bounded by 95 th Street to the South, 93 rd Street to the North, and Kean Avenue to the west, along Belly Deep Slough	**	**	697.8	**
Cook County Unincorporated Areas Detention Basin, located along an Unnamed tributary to Long Run, just Upstream of Will-Cook Road	**	**	686.0	**
Touhy Avenue Reservoir (East Reservoir)	**	**	649.8	**
MWRD Reservoir (West Touhy Avenue FCR)	**	**	653.0	**
Village of Bensenville Ponding Area No. 1	653.2	654.4	655.0	**
Village of Burr Ridge Pond 1	705.2	705.4	705.5	705.7

** Data not available

¹ Stillwater elevation does not include tide or wave runup.

Property C

FLOOD INSURANCE STUDY



COOK COUNTY, ILLINOIS AND INCORPORATED AREAS

Volume 2 of 5

COMMUNITY NAME	COMMUNITY NUMBER	COMMUNITY NAME	COMMUNITY NUMBER	COMMUNITY NAME	COMMUNITY NUMBER	COMMUNITY NAME	COMMUNITY NUMBER
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* DEER PARK, VILLAGE OF	171028	INDIAN HEAD PARK, VILLAGE OF	170110	PALOS HEIGHTS, CITY OF	170142	WILLOW SPRINGS, VILLAGE OF	170174
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DES PLAINES, CITY OF	170081	JUSTICE, VILLAGE OF	170112	PALOS PARK, VILLAGE OF	170144	WINNETKA, VILLAGE OF	170176
DIXMOOR, VILLAGE OF	170082	KENILWORTH, VILLAGE OF	170113	PARK FOREST, VILLAGE OF	170145	WORTH, VILLAGE OF	170177
DOLTON, VILLAGE OF	170083	LA GRANGE, VILLAGE OF	170114	PARK RIDGE, CITY OF	170146		
* EAST DUNDEE, VILLAGE OF	170323	LA GRANGE PARK, VILLAGE OF	170115	* PHOENIX, CITY OF	170147		
				POSEN, VILLAGE OF	170148		

* NO SPECIAL FLOOD HAZARD AREAS IDENTIFIED WITHIN COOK COUNTY



REVISED: AUGUST 19, 2008
 Federal Emergency Management Agency

FLOOD INSURANCE STUDY NUMBER
 17031CV002G

