

**Activity 430 (Higher Regulatory Standards)****432 Elements****432.a. Development limitations (DL)****Regulations that prohibit fill (DL1a)** = \_\_\_\_\_

Area of the regulation prohibiting fill (aDL1a)

Impact adjustment ratio = rDL1a =  $\frac{aDL1a}{aSFHA}$  = \_\_\_\_\_Verified ratio =  $\frac{\text{No. sites passed}}{\text{No. sites checked}}$  = \_\_\_\_\_

cDL1a = DL1a x rDL1a x Verified ratio cDL1a = \_\_\_\_\_

**Regulations that protect floodplain storage (DL1b#1)** = 130

Area of the regulation prohibiting fill (aDL1b#1)

Impact adjustment ratio = rDL1b#1 =  $\frac{aDL1b\#1}{aSFHA}$  =  $\frac{1,900.08}{19,008.14}$  = 0.10Verified ratio =  $\frac{\text{Number passed}}{\text{Number sampled}}$  =  $\frac{5}{5}$  = 1.00cDL1b#1 = DL1b#1 x rDL1b#1 x Verified ratio cDL1b#1 = 13.00**Regulations that protect floodplain storage (DL1b#2)** = \_\_\_\_\_

Area of the regulation prohibiting fill (aDL1b#2)

Impact adjustment ratio = rDL1b#2 =  $\frac{aDL1b\#2}{aSFHA}$  = \_\_\_\_\_Verified ratio =  $\frac{\text{Number passed}}{\text{Number sampled}}$  = \_\_\_\_\_

cDL1b#2 = DL1b#2 x rDL1b#2 x Verified ratio cDL1b#2 = \_\_\_\_\_

cDL1b = cDL1b#1 + cDL1b#2 cDL1b = 13.00**Regulations that prohibit buildings (DL2)** = \_\_\_\_\_

Area of the regulations that prohibit buildings (aDL2)

Impact adjustment ratio = rDL2 =  $\frac{aDL2}{aSFHA}$  = \_\_\_\_\_Verified ratio =  $\frac{\text{No. sites passed}}{\text{No. sites checked}}$  = \_\_\_\_\_

cDL2 = DL2 x rDL2 x Verified ratio cDL2 = \_\_\_\_\_

**Activity 430 (Higher Regulatory Standards)****Regulations that prohibit outdoor storage of materials (DL3a)** = \_\_\_\_\_

Area of the regulations that prohibit outdoor storage of materials (aDL3a)

Impact adjustment ratio = rDL3a =  $\frac{aDL3a}{aSFHA}$  = \_\_\_\_\_ = \_\_\_\_\_Verified ratio =  $\frac{\text{No. sites passed}}{\text{No. sites checked}}$  = \_\_\_\_\_ = \_\_\_\_\_

cDL3a = DL3a x rDL3a x Verified ratio cDL3a = \_\_\_\_\_

**Regulations that prohibit storage of hazardous materials (DL3b)** = \_\_\_\_\_

Area of the regulations that prohibit storage of hazardous materials (aDL3b)

Impact adjustment ratio = rDL3b =  $\frac{aDL3b}{aSFHA}$  = \_\_\_\_\_ = \_\_\_\_\_Verified ratio =  $\frac{\text{Number passed}}{\text{Number sampled}}$  = \_\_\_\_\_ = \_\_\_\_\_

cDL3b = DL3b x rDL3b x Verified ratio cDL3b = \_\_\_\_\_

**Regulations of indoor storage of hazardous materials > BFE (DL3c)** = \_\_\_\_\_

Area of the regulations that require indoor storage of hazardous materials (aDL3c)

Impact adjustment ratio = rDL3c =  $\frac{aDL3c}{aSFHA}$  = \_\_\_\_\_ = \_\_\_\_\_Verified ratio =  $\frac{\text{Number passed}}{\text{Number sampled}}$  = \_\_\_\_\_ = \_\_\_\_\_

cDL3c = DL3c x rDL3c x Verified ratio cDL3c = \_\_\_\_\_

cDL = cDL1a + cDL1b + cDL2 + cDL3a + cDL3b + cDL3c cDL = 13.00**432.b. Freeboard (FRB)****Floodplain regulations that require freeboard (FRB#1)** = 110

Area of floodplain regulations that require freeboard (aFRB#1)

**Activity 430 (Higher Regulatory Standards)**

$$\text{Impact adjustment ratio} = \text{rFRB\#1} = \frac{\text{aFRB\#1}}{\text{aSFHA}} = \frac{1,900.08}{19,008.14} = \underline{0.10}$$

$$\text{Verified ratio} = \frac{\text{Number passed}}{\text{Number sampled}} = \frac{10}{10} = \underline{1.00}$$

$$\text{cFRB\#1} = \text{FRB\#1} \times \text{rFRB\#1} \times \text{Verified ratio} \quad \text{cFRB\#1} = \underline{11.00}$$

**Floodplain regulations that require freeboard (FRB#2)** = 28

Area of floodplain regulations that require freeboard (aFRB#2)

$$\text{Impact adjustment ratio} = \text{rFRB\#2} = \frac{\text{aFRB\#2}}{\text{aSFHA}} = \frac{6,294.69}{19,008.14} = \underline{0.33}$$

$$\text{Verified ratio} = \frac{\text{Number passed}}{\text{Number sampled}} = \frac{1}{1} = \underline{1.00}$$

$$\text{cFRB\#2} = \text{FRB\#2} \times \text{rFRB\#2} \times \text{Verified ratio} \quad \text{cFRB\#2} = \underline{9.24}$$

**Floodplain regulations that require freeboard (FRB#3)** = \_\_\_\_\_

Area of floodplain regulations that require freeboard (aFRB#3)

$$\text{Impact adjustment ratio} = \text{rFRB\#3} = \frac{\text{aFRB\#3}}{\text{aSFHA}} = \underline{\hspace{2cm}}$$

$$\text{Verified ratio} = \frac{\text{Number passed}}{\text{Number sampled}} = \underline{\hspace{2cm}}$$

$$\text{cFRB\#3} = \text{FRB\#3} \times \text{rFRB\#3} \times \text{Verified ratio} \quad \text{cFRB\#3} = \underline{\hspace{2cm}}$$

$$\text{cFRB} = \text{cFRB\#1} + \text{cFRB\#2} + \text{cFRB\#3} \quad \text{cFRB} = \underline{20.24}$$

**432.c. Foundation protection (FDN)**

Regulations that protect foundations (FDN) = \_\_\_\_\_

Area of floodplain regulations that require freeboard (aFDN)

Area of V Zone floodplain (aVZone)

$$\text{Impact adjustment ratio} = \text{rFDN} = \frac{\text{aFDN}}{\text{aVZone}} = \underline{\hspace{2cm}}$$

### Activity 430 (Higher Regulatory Standards)

$$\text{Verified ratio} = \frac{\text{Number passed}}{\text{Number sampled}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\text{cFDN} = \text{FDN} \times \text{rFDN} \times \text{Verified ratio} \qquad \text{cFDN} = \underline{\hspace{2cm}}$$

#### 432.d. Cumulative substantial improvements (CSI)

$$\text{Substantial improvements to buildings counted cumulatively (CSI1)} = \underline{40}$$

$$\text{Reconstruction/repairs to damaged buildings counted cumulatively (CSI2)} = \underline{40}$$

$$\text{Regulations qualifying ICC insurance coverage for rep losses (CSI3)} = \underline{\hspace{2cm}}$$

$$\text{Regulations that additions must be protected from the base flood (CSI4)} = \underline{20}$$

$$\text{CSI} = \text{CSI1} + \text{CSI2} + \text{CSI3} + \text{CSI4} \qquad \text{CSI} = \underline{90}$$

Area of cumulative substantial improvement rules (aCSI)

$$\text{Impact adjustment ratio} = \text{rCSI} = \frac{\text{aCSI}}{\text{aSFHA}} = \frac{7,798.19}{19,008.14} = \underline{0.41}$$

$$\text{Verified ratio} = \frac{\text{Number passed}}{\text{Number sampled}} = \frac{1}{1} = \underline{1.00}$$

$$\text{cCSI} = \text{CSI} \times \text{rCSI} \times \text{Verified ratio} \qquad \text{cCSI} = \underline{36.90}$$

#### 432.e. Lower substantial improvements threshold (LSI)

$$\text{Lower substantial improvement threshold (LSI)} = \underline{\hspace{2cm}}$$

Area of lower substantial improvement threshold (aLSI)

$$\text{Impact adjustment ratio} = \text{rLSI} = \frac{\text{aLSI}}{\text{aSFHA}} = \underline{\hspace{2cm}}$$

$$\text{Verified ratio} = \frac{\text{Number passed}}{\text{Number sampled}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\text{cLSI} = \text{LSI} \times \text{rLSI} \times \text{Verified ratio} \qquad \text{cLSI} = \underline{\hspace{2cm}}$$

#### 432.f. Protection of critical facilities (PCF)

$$\text{Regs prohibiting critical facilities from 500-year floodplain (PCF1)} = \underline{\hspace{2cm}}$$

Area of protected critical facilities (aPCF1)

Area of the 500 year floodplain (a500)

$$\text{Impact adjustment ratio} = \text{rPCF1} = \frac{\text{aPCF1}}{\text{a500}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

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$$\text{Verified ratio} = \frac{\text{No. sites passed}}{\text{No. sites checked}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\text{cPCF1} = \text{PCF1} \times \text{rPCF1} \times \text{Verified ratio} \qquad \text{cPCF1} = \underline{\hspace{2cm}}$$

**Regs protecting critical facilities from 500-year flood + 1 ft (PCF2)** =           

Area of protected critical facilities (aPCF2)

Area of the 500 year floodplain (a500)

$$\text{Impact adjustment ratio} = \text{rPCF2} = \frac{\text{aPCF2}}{\text{a500}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\text{Verified ratio} = \frac{\text{Number passed}}{\text{Number sampled}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\text{cPCF2} = \text{PCF2} \times \text{rPCF2} \times \text{Verified ratio} \qquad \text{cPCF2} = \underline{\hspace{2cm}}$$

$$\text{cPCF} = \text{cPCF1} + \text{cPCF2} \qquad \text{cPCF} = \underline{\hspace{2cm}}$$

### 432.g. Enclosure limits (ENL)

**Regulations prohibiting enclosure/restricting enclosure size (ENL1,2)** =           

Area of enclosure limits (aENL1,2)

$$\text{Impact adjustment ratio} = \text{rENL1,2} = \frac{\text{aENL1,2}}{\text{aSFHA}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\text{Verified ratio} = \frac{\text{Number passed}}{\text{No. sampled/checked}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\text{cENL1,2} = \text{ENL1,2} \times \text{rENL1,2} \times \text{Verified ratio} \qquad \text{cENL1,2} = \underline{\hspace{2cm}}$$

**Regs that require non-conversation agreements to be recorded (ENL3)** =           

Area of enclosure limits (aENL3)

$$\text{Impact adjustment ratio} = \text{rENL3} = \frac{\text{aENL3}}{\text{aSFHA}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\text{Verified ratio} = \frac{\text{Number passed}}{\text{Number sampled}} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\text{cENL3} = \text{ENL3} \times \text{rENL3} \times \text{Verified ratio} \qquad \text{cENL3} = \underline{\hspace{2cm}}$$

$$\text{cENL} = \text{cENL1,2} + \text{cENL3} \qquad \text{cENL} = \underline{\hspace{2cm}}$$

### 432.h. Building code (BC)

**Adoption of current editions of the appropriate building codes (BC1)**

$$\text{IBC - International Building Code} \qquad \qquad \qquad = \underline{\hspace{2cm} 20 \hspace{2cm}}$$

### Activity 430 (Higher Regulatory Standards)

IRC - International Residential Code = 20  
 Other - Plumbing, Mechanical, Fuel and Gas, Private Sewage Disposal = 8  
 BC1 = 48

#### Building Code Effectiveness Grading Schedule (BCEGS) classification (BC2)

BCEGS Rating 4 BC2 = 20

cBC = BC1 + BC2 BC = 68

#### 432.i. Local drainage protection (LDP)

Regulations requiring lowest floor of buildings to be above the street (LDP1) = 40  
 Regulations requiring a site drainage plan (LDP2) =           
 Regulations providing positive drainage away from building sites (LDP3) =           
 Regulations requiring increased volume or runoff to be kept on site (LDP4) =           
 LDP = (LDP1 or LDP2 or LDP3) + LDP4 LDP = 40

Verified ratio =  $\frac{\text{Number passed}}{\text{Number sampled}} = \frac{1}{1} = 1.00$

cLDP = LDP x Verified ratio cLDP = 40.00

#### 432.j. Manufactured home parks (MHP)

Manufactured home parks (MHP) =           
 Verified ratio =  $\frac{\text{Number passed}}{\text{Number sampled}} = \frac{\quad}{\quad} = \quad$

cMHP = MHP x Verified ratio cMHP =         

#### 432.k. Coastal A Zones (CAZ)

Regulations requiring V Zone standards in A Zones (CAZ1) =           
 Regulations prohibiting any building enclosures below the BFE (CAZ2) =           
 CAZ = CAZ1 + CAZ2 CAZ =         

Area of Coastal AE Zones (aCAZ)  
 Impact adjustment ratio = rCAZ =  $\frac{\text{aCAZ}}{\text{aSFHA}} = \quad = \quad$

### Activity 430 (Higher Regulatory Standards)

Verified ratio =  $\frac{\text{Number passed}}{\text{Number sampled}}$  = \_\_\_\_\_ = \_\_\_\_\_

cCAZ = CAZ x rCAZ x Verified ratio cCAZ = \_\_\_\_\_

#### 432.i. Special flood-related hazards regulations (SHR)

Regulations that protect special flood-related hazards (SHR) = \_\_\_\_\_

Area of special flood-related hazard regulations (aSHR)

Impact adjustment ratio = rSHR =  $\frac{\text{aSHR}}{\text{aSFHA}}$  = \_\_\_\_\_ = \_\_\_\_\_

Verified ratio =  $\frac{\text{Number passed}}{\text{Number sampled}}$  = \_\_\_\_\_ = \_\_\_\_\_

cSHR = SHR x rSHR x Verified ratio cSHR = \_\_\_\_\_

#### 432.m. Other higher standards (OHS)

Other higher standards (OHS) = \_\_\_\_\_

Area of other higher standards (aOHS)

Impact adjustment ratio = rOHS =  $\frac{\text{aOHS}}{\text{aSFHA}}$  = \_\_\_\_\_ = \_\_\_\_\_

Verified ratio =  $\frac{\text{Number passed}}{\text{Number sampled}}$  = \_\_\_\_\_ = \_\_\_\_\_

cOHS = OHS x rOHS x Verified ratio cOHS = \_\_\_\_\_

#### 432.n SMS - State-Mandated Regulatory Standards

- |             |              |
|-------------|--------------|
| NS _____    | PCF _____    |
| HSS _____   | SHR _____    |
| FWS _____   | OHS _____    |
| MAPSH _____ | RA 4 _____   |
| OSP _____   | SZ _____     |
| DR _____    | DS _____     |
| NFOS _____  | PUB _____    |
| SHOS _____  | LID _____    |
| OSI _____   | WMP _____    |
| LZ _____    | ESC _____    |
| NSP _____   | WQ <u>20</u> |
| DL _____    | ENL _____    |

**Activity 430 (Higher Regulatory Standards)**FRB        BC   48  FDN        LDP   10  CSI        MHP       LSI        CAZ       0.1 X (credit for SMS elements =       78.00      )SMS =       8      **432.o. Regulations administration (RA)**Staff training of regulatory staff members (RA1) =       25      Community's building department is accredited by IAS (RA2) =       Conducting 3 detailed inspections for each new building (RA3) =       Verified ratio =  $\frac{\text{Number passed}}{\text{Number sampled}}$  =         
=       cRA3 = RA3 x Verified ratio cRA3 =       Regulations that allows reinspection of buildings (RA4) =       Verified ratio =  $\frac{\text{Number passed}}{\text{Number sampled}}$  =         
=       cRA4 = RA4 x Verified ratio cRA4 =       Storing floodplain documents at an off-site storage location (RA5) cRA5 =       5      cRA = RA1 + RA2 + RA3 + cRA4 + RA5 cRA =       30.00      **433 Credit Calculation**c430 = cDL + cFRB + cFDN + cCSI + cLSI + cPCF + cENL + cBC  
+ cLDP + cMHP + cCAZ + cSHR + cOHS + cSMS + cRA c430 =       216      **Comments:**



## Activity 430 (Higher Regulatory Standards)

DL1b in the Flood Ordinance

FRB1 - See 1st 10 ECs in Activity 310 for verification.

aDL1b and aFRB are calculated by:

aSFHA (19008.14)- aOSP (11209.95)=7798.19 - 6294.69 (Azone outside of OSP)= 1503.50 which is .08. But there is a .10 optional minimum. So I had to trick the ISAAC to take the optional minimum. So instead of entering 1503.50, I entered 1900.08.

FRB2 - They require floors to be 2' above HAG in Approx A Zones. This is worth credit per a PC Decision on 9-30-15

CSI - Credit is awarded for CSI over 10 years for both SI and SD. 20 credits awarded since any addition to a structure in SFHA is considered New Construction and must meet current codes.

UMC for BC and all SMS

Class 4 Prerequisites:

(7) The community must have received and continue to maintain a classification of 4/4 or better under the BCEGS. **VERIFIED BCEGS RATING IS 4/3 (2014).**

(8) Activity 430 (Higher Regulatory Standards) — The community must show that it enforces higher regulatory standards to manage new development in the floodplain.

(i) The community must adopt and enforce a freeboard requirement that receives at least 100 points for FRB in Section 432.b. For this prerequisite, the value for FRB is the value before factoring in the impact adjustment. **VERIFIED.**

(ii) The community must receive at least 700 points under the other elements of Activity 430 and under Sections 422.a, e, and f under Activity 420 (Open Space Preservation). For this prerequisite, the points are calculated after factoring in the impact adjustment. **HERE ARE A TOTAL OF 994.5 TO SATISFY THIS REQUIREMENT. c430 (minus cFRB) = 196 and c420a = 855.5.**

(11) Obtain a minimum total credit of 100 points (after the impact adjustment) from one or a combination of the following elements that credit protecting natural floodplain functions: **A TOTAL OF 307 CREDITS AWARDED. SEE BELOW.**

o 420—Natural functions open space (NFOS), **134**

o 420—Natural shoreline protection (NSP),

o 430—Prohibition of fill (DL1), **13**

o 440—Additional map data (AMD12) natural functions layer, **14**

o 450—Managing the volume of stormwater runoff (SMR, DS) **77**

o 450—Low impact development (LID),

o 450—Watershed management plan (WMP), credit point items 3, 5, 6, and 7, **24**

o 450—Erosion and sediment control (ESC), **10**

o 450—Water quality (WQ), **20** and



















