



# Resiliency Assessment

## Resiliency Assessment for projects within the RPA and IDA Buffers of the Chesapeake Bay Preservation District

FOR OFFICE USE ONLY

Date Received \_\_\_\_\_

Associated Permit # \_\_\_\_\_

Zoning Official Approval \_\_\_\_\_

Date Approved \_\_\_\_\_

The purpose of the Resiliency Assessment is to (i) identify the potential impacts on proposed development of sea-level rise, storm surge, and flooding within Resource Protection Areas (RPA) and Intensely Developed Areas (IDA); (ii) assess such impacts on the buffer function considering proposed development; and (iii) identify alterations, conditions, or adaptation measures where necessary and appropriate.

### A. Project & Applicant Information

1. Project Address: \_\_\_\_\_
2. LRSN: \_\_\_\_\_
3. Project Name on Plan of Development/Site Plan Application: \_\_\_\_\_
4. Associated Plan and/or Building Permit No. (if applicable): \_\_\_\_\_
5. Tax Map / Parcel Number: \_\_\_\_\_ Date lot/parcel recorded: \_\_\_\_\_
6. Anticipated date(s) of construction for any existing structure(s) on site: \_\_\_\_\_
7. Applicant Name: \_\_\_\_\_
8. Mailing Address: \_\_\_\_\_
9. Phone Number: \_\_\_\_\_
10. Email Address: \_\_\_\_\_

### B. Proposed Development

1. Nature of Proposed Development [check all that apply]:
  - ☐ Water-dependent facility
  - ☐ Adaptation Measure
  - ☐ Redevelopment
  - ☐ Development in Intensely Developed Area (IDA)



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- ☐ New use on a pre-Bay Act lot
- ☐ Private road or driveway crossing?
- ☐ Regional flood control or stormwater management facility
- ☐ Other permitted buffer encroachment as described: \_\_\_\_\_

2. Type of Proposed Development [check all that apply]:

- ☐ Commercial
- ☐ Industrial
- ☐ Multi-family Residential
- ☐ New Single-Family Residential
- ☐ Single-Family Residential Addition
- ☐ Accessory Structure (e.g., pool, gazebo, detached garage, storage shed, etc.)
- ☐ Water-Dependent Structure (e.g., boat house, pier, dock, etc.)

3. Description of Proposed Development: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. Please provide the extent of RPA/IDA Impact (this should be based upon the information provided in the application and the Water Quality Impact Assessment):

| Development/Structure<br>(Impervious Surface) (sq. ft.) | Footprint within the<br>RPA/IDA (sq. ft.) | Land Disturbance within<br>the RPA/IDA (sq. ft.) |
|---------------------------------------------------------|-------------------------------------------|--------------------------------------------------|
|                                                         |                                           |                                                  |
| TOTAL                                                   |                                           |                                                  |

## C. Impact Identification:

Identify the potential impact of sea-level rise, storm surge, and flooding on the parcel and proposed development.

### 1. Model/Forecast Utilized:

Please identify which model was used to identify the potential impacts to the parcel and proposed development:

☐ AdaptVA ☐ FRIS ☐ Other: \_\_\_\_\_

### 2. Development Lifespan/Impact Timeframe:

Please indicate the timeframe used in the model to identify the potential impacts to the parcel and proposed development. The required timeframe is 30 years. If less than 30 years is proposed for the impact assessment, indicate the timeframe used and the basis for it. Include



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additional information or rationale for why less than 30 years is supported based upon the proposed development.

☐ 30 years

☐ \_\_\_\_\_ years based upon:

☐ Type of structure: ☐ Temporary ☐ Movable

☐ Materials: \_\_\_\_\_

☐ Specifications: \_\_\_\_\_

☐ Anticipated maintenance: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Additional information: \_\_\_\_\_

### **3. Sea-Level Rise**

a. Was the NOAA intermediate-high level scenario used? ☐ Yes ☐ No

b. Is sea-level rise projected to impact the parcel? ☐ Yes ☐ No

### **4. Storm Surge**

a. Was the NOAA SLOSH model used? ☐ Yes ☐ No

b. Is storm surge based upon the Category 2 storm surge projected to impact the parcel? ☐ Yes ☐ No

c. Was any additional Storm Surge Evaluation considered (e.g., another storm surge model or analysis): ☐ Yes ☐ No

If yes, identify additional Storm Surge Evaluation: \_\_\_\_\_

### **5. Flooding**

a. Is the parcel subject to increased or recurrent flooding that is proposed to be addressed?

☐ Yes ☐ No

b. Is the development within a floodplain or in a Flood Hazard Zone? ☐ Yes ☐ No

c. Is a Limit of Moderate Wave Action identified on the parcel? ☐ Yes ☐ No

\_\_\_\_\_ **[If yes to any of the above, complete Section D]** \_\_\_\_\_

## **D. Impact Assessment**

### **Sea-Level Rise**

1. Please describe the extent of sea-level rise in the RPA/IDA buffer including landward extent (e.g., seaward 10 feet or 25% of the buffer):

2. Is sea-level rise projected to directly impact any proposed structure? ☐ Yes ☐ No



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If yes, extent of sea-level impact on structure[s]: \_\_\_\_\_  
\_\_\_\_\_

### Storm Surge

3. Please describe the extent of storm surge within the RPA/IDA buffer including landward extent (e.g., seaward 10 feet or portion of the property impact):

4. Is Storm surge projected to impact any proposed structure? ☐ Yes ☐ No

If yes, extent of storm surge on structure[s]: \_\_\_\_\_

### Flooding

5. Special Flood Hazard Area Zone: \_\_\_\_\_
6. If the Limit of Moderate Wave Action is identified on the parcel, does it intersect with any proposed structure? ☐ Yes ☐ No
7. Is the proposed development consistent with Article IV (Flood Zone Overlay) of the Zoning Ordinance? ☐ Yes ☐ No

### Alteration/Conditions/Adaptation Measure Consideration

8. Are structures placed as far inland as possible, considering parcel size and setback requirements? ☐ Yes ☐ No  
If no, please indicate why: \_\_\_\_\_
9. Are any structural alterations, improvements, or design elements proposed to address these impacts (e.g., locating structure as far inland as possible, elevating structures, etc.)? ☐ Yes ☐ No  
If yes, please describe: \_\_\_\_\_
10. Are any tree plantings, buffer mitigation, or other vegetative elements beyond those required for mitigation being proposed? ☐ Yes ☐ No  
If yes, please describe: \_\_\_\_\_
11. Are any additional structures or development anticipated on the parcel in the future? ☐ Yes ☐ No  
If yes, please describe: \_\_\_\_\_
12. Are any additional adaptation measures being proposed to address the potential impacts? ☐ Yes ☐ No  
If yes, please describe and identify the adaptation measure source: \_\_\_\_\_  
\_\_\_\_\_
13. Please describe any additional information or consideration included in the proposed development to address potential impacts:



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☐ The proposed development does NOT require alterations, conditions, or adaptation measures

☐ The proposed development DOES require the following alterations, conditions, or adaptation measure which are necessary and appropriate (practical and achievable):

Alteration: \_\_\_\_\_

Condition: \_\_\_\_\_

Adaptation Measure: \_\_\_\_\_

☐ The final proposed site plan and development does NOT require any additional alterations, conditions, or adaptation measures

Basis for Decision:

Reviewer Name (Print): \_\_\_\_\_

Signature: \_\_\_\_\_

Date: \_\_\_\_\_