**Solution Prioritization Action 4 Worksheet: Prioritize Solutions**

Worksheet Last Updated By: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Step 1: Evaluate How Well Solutions Meet Prioritization Criteria

Review the prioritization criteria established in the previous action and determine how well each solution meets that criterion. For those working offline, this will be an input to **Tab 5** in the Solution Prioritization Excel workbook. Remember that Criterion 1 is predetermined to be risk reduction potential and will be automatically calculated within **Tab 5** of the Solution Prioritization Excel workbook.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Solution**  **#** | **Solution** | **How well does solution meet criteria?**  (Not Well, Well, Moderately Well, Extremely Well) | | | | |
| **Criterion 2** | **Criterion 3** | **Criterion 4** | **Criterion 5** | **Criterion 6** |
| *List Criterion 2* | *List Criterion 3* | *List Criterion 4* | *List Criterion 5* | *List Criterion 6* |
| 1 | *Relocate the current facility to avoid predicted increases in storm surge inundation and associated repetitive damages and loses.* | *Well* | *Not Well* | *Extremely Well* | *N/A* | *N/A* |
| 2 |  |  |  |  |  |  |
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| 12 |  |  |  |  |  |  |
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| 20 |  |  |  |  |  |  |

Step 2: Determine How the Site Will Sort Solutions

The list of solutions with their associated resilience potential and cost category may be sufficient to decide which solutions will proceed for further analysis; however, sites may want to sort solutions to clarify the results and emphasize specific combinations of resilience potential and cost. Below is a matrix of cost and resilience-enhancing potential. Fill in a number (1 through 16) in each cell to identify which combinations are considered most desirable by the site.

While some sites may value low-cost solutions above all else, others may prefer a combination of very high resilience solution benefit potential across cost categories. An example of how a site may choose to order these criteria is given below in red. This example places primary emphasis on the resilience solution benefit potential, but also prioritizes solutions that have lower cost. Change these ratings as is appropriate for your site.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Resilience**  **Solution**  **Benefit**  **Potential**  **Cost** | **Low Potential** | **Moderate Potential** | **High Potential** | **Very High Potential** |
| **Minimal Cost** | 13 | 9 | 5 | 1 |
| **Low Cost** | 14 | 10 | 6 | 2 |
| **Moderate Cost** | 15 | 11 | 7 | 3 |
| **High Cost** | 16 | 12 | 8 | 4 |

For those working offline, this will be an input to **Tab 6** in the Solution Prioritization Excel workbook. To make it easier to input into the Excel workbook, users may desire to transpose the information from the matrix above into the table below.

|  |  |  |
| --- | --- | --- |
| **Desired Sort Order** | **Cost Category**  (Minimal, Low, Moderate, High Cost) | **Solution Resilience Potential**  (Low, Moderate, High, Very High Potential |
| 1 | Minimal Cost | Very High Potential |
| 2 |  |  |
| 3 |  |  |
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| 12 |  |  |
| 13 |  |  |
| 14 |  |  |
| 15 |  |  |
| 16 |  |  |