**Attachment 12501.1 - SPD Mitigation Ratio Setting Checklist**

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| 1 | Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Corps file no.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Project Manager: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Impact site name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ORM impact resource type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hydrology: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Impact Cowardin or HGM type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Impact area (acres): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Impact distance (linear feet): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  |
|  |  | Column A:Mitigation site name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Mitigation type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Resource type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Cowardin/HGM type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hydrology: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Column B (optional):Mitigation site name: \_\_\_\_\_\_\_\_\_\_Mitigation type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_Resource type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Cowardin/HGM type: \_\_\_\_\_\_\_\_\_Hydrology: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Column C (optional):Mitigation site name: \_\_\_\_\_\_\_\_\_\_Mitigation type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_Resource type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Cowardin/HGM type: \_\_\_\_\_\_\_\_\_Hydrology: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 2.a | **Qualitative impact-mitigation comparison:** For preservation, complete steps 2.c. and 3. For other mitigation methods, has a Corps-approved functional/condition assessment been obtained? If not, complete step 2.a\*; otherwise, complete step 2.b. \*Optional: use Table 2 page 4.Yes [ ]  No [ ]  | Starting ratio: 1:1Ratio adjustment: \_\_\_Baseline ratio: \_\_:\_\_PM justification: | Starting ratio: 1:1Ratio adjustment: \_\_\_Baseline ratio: \_\_:\_\_PM justification: | Starting ratio: 1:1Ratio adjustment: \_\_\_Baseline ratio: \_\_:\_\_PM justification: |
| 2.b | **Quantitative impact-mitigation comparison:** Use step 2.b if a Corps-approved functional/condition assessment has been obtained.Use Before-After-Mitigation-Impact (BAMI) spreadsheet (attachment 12501.4). See examples in attachment 12501.2. | Baseline ratio from BAMI procedure (attached): \_\_:\_\_ | Baseline ratio from BAMI procedure (attached): \_\_:\_\_ | Baseline ratio from BAMI procedure (attached): \_\_:\_\_ |
| 2.c | Preservation baseline ratio (complete Table 2 step A). | Baseline ratio: \_\_:1PM justification: | Baseline ratio: \_\_:1PM justification: | Baseline ratio: \_\_:1PM justification: |
| 3 | Preservation adjustment (complete Table 2 steps B-E and enter total adjustment from step E). | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: |
| 4 | **Mitigation site location:**  | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: |
| 5 | **Net loss of aquatic resource surface area:**  | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: |
| 6 | **Type conversion:**  | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: |
| 7 | **Risk and uncertainty:** | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: |
| 8 | **Temporal loss:**  | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: | Ratio adjustment:PM justification: |
| 9 | **Final mitigation ratio(s):**  | Column A:1. Baseline ratio (step 2.a, b or c) = \_\_:\_\_2. Total adjustments (steps 3-8) = \_\_\_3. Final ratio: \_\_ : \_\_Proposed impact (total): \_\_\_ acre\_\_\_ linear feettoResource type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Cowardin or HGM: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hydrology: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Required mitigation:\_\_\_ acre\_\_\_ linear feetofMitigation type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Resource type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Cowardin or HGM: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hydrology: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Additional PM comments: | Column B:1. Baseline ratio (step 2.a, b or c) = \_\_:\_\_2. Total adjustments (steps 3-8) = \_\_\_3. Final ratio: \_\_ : \_\_Remaining impact: \_\_\_\_\_\_\_\_\_\_\_Required mitigation:\_\_\_ acre\_\_\_ linear feetofMitigation type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_Resource type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Cowardin or HGM: \_\_\_\_\_\_\_\_\_\_\_Hydrology: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Additional PM comments: | Column C:1. Baseline ratio (step 2.a, b, or c) = \_\_:\_\_2. Total adjustments (steps 3-8) = \_\_\_3. Final ratio: \_\_ : \_\_Remaining impact: \_\_\_\_\_\_\_\_\_\_\_Required mitigation:\_\_\_ acre\_\_\_ linear feetofMitigation type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_Resource type: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Cowardin or HGM: \_\_\_\_\_\_\_\_\_\_\_Hydrology: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Additional PM comments: |
| 10 | **Final compensatory mitigation requirements:**  | PM summary: |

**Table 1 for qualitative comparison of functions (functional loss vs. gain):**

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| --- | --- | --- | --- |
| **Function** | **Impact site** | **Mitigation site** | **PM Justification** |
| Short- or long-term surface water storage  |  |  |  |
| Subsurface water storage  |  |  |  |
| Moderation of groundwater flow or discharge |  |  |  |
| Dissipation of energy  |  |  |  |
| Cycling of nutrients  |  |  |  |
| Removal of elements and compounds  |  |  |  |
| Retention of particulates  |  |  |  |
| Export of organic carbon  |  |  |  |
| Maintenance of plant and animal communities |  |  |  |
| Step 2.a adjustment for column \_\_: |  |

**Table 2. Baseline ratio and total adjustment determinations for preservation:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Steps** | **Criteria** | **Results** | **PM Justification** |
| A. | Baseline ratio (5:1, 3:1, or 1:1): |  |  |
| B. | Functions adjustment (5, 3, or 1): |  |  |
| C. | Threat adjustment (5, 3, or 1): |  |  |
| D. | Degree of protection adjustment (5, 3, or 1): |  |  |
| E. | Total adjustment for column \_\_ (add steps B-D): |  |  |
| Supporting information: |
| Impacted aquatic resource(s): |  |
| Preserved aquatic resource(s)/site(s): |  |
| Threat: |  |
| Protection type: |  |