

Examples: “No Paddle Creek”

Example 1: Stream impacted from Condition B to Condition A

Example 2: Stream mitigation from Condition A to Condition B

Conditions:

| Parameter | Condition A | Condition B |
|--|-----------------------------------|-----------------------------|
| Common Characteristics | | |
| DA (Upstream Drainage Area) | 332 acres (0.52 mi ²) | |
| L_v (Valley Length - ft) | 960 ft | |
| W_{Bkf} (calculated) ^a | 11.4 ft | |
| D_{max} (calculated) ^b | 0.18 ft | |
| Target Streamway (W _{sw}) ^c | 115 ft (2.5 acres) | |
| Site-Specific Characteristics | | |
| Habitat Index Score | 42 (HHEI) | 59 (HHEI) |
| Stream ALU | Modified Class II PHWH | Class II PHWH |
| F_c (Habitat Condition Factor) ^d | Poor (recovering channel) | Good (recovered channel) |
| Mitigation Category ^e | 1 | 2 |
| Stream Gradient | 0.39% (Low Gradient) | 0.22% (Low Gradient) |
| Stream Length (ft) | 1,152 | 2,017 |
| Area at D_{max} ^f | 0.4 acres (18 ft) | 1.0 acres (45 ft) |
| Area at 1.5 * D_{max} ^f | 0.5 acres (23 ft) | 1.7 acres (77 ft) |
| Area at 2.0 * D_{max} ^f | 0.8 acres (36 ft) | 3.8 acres (172 ft) |
| Soil Organic Matter | 1.5% (Fair) | 2.3% (Good) |
| Soil Permeability (in/hr) | 0.2 (Poor) | 0.3 (Poor) |
| Swf (Soils Quality Factor) ^g | 0.8 (Fair) | 1.0 (Good) |

Mitigation Metrics:

Adjusted Flood Prone Area: **APPLICABLE**

Minimum for mitigation = 30% of Target Streamway

Adjusted Habitat Area: **NOT APPLICABLE**

(Mitigation Categories 1 and 2)

^a $14.7 * DA^{0.38}$ (Equation 6, Sect. 5.2.1)

^b $2.2 * DA^{0.38}$ (Equation 4, Sect. 4.1)

^c $147 * DA^{0.38}$ (Equation 2, Sect. 3.1)

^d Table 12

^e Section 1.3

^f Section 4.1

^g Table 9