| Worksheet 3: Factor of Safety and Design Infiltration Rate and Worksheet | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Factor Category | | Factor Description | Assigned Weight (w) | Factor Value (v) | | Product (p)  p = w x v |
| A | Suitability Assessment | Soil assessment methods | 0.25 |  | |  |
| Predominant soil texture | 0.25 |  | |  |
| Site soil variability | 0.25 |  | |  |
| Depth to groundwater / impervious layer | 0.25 |  | |  |
| Suitability Assessment Safety Factor, SA = Σp | | | |  |
| B | Design | Tributary area size | 0.25 |  | |  |
| Level of pretreatment/ expected sediment loads | 0.25 |  | |  |
| Redundancy/contingency plan | 0.25 |  | |  |
| Compaction during construction | 0.25 |  | |  |
| Design Safety Factor, SB = Σp | | | |  |
| Combined Safety Factor, STotal= SA x SB | | | | |  | |
| Observed Infiltration Rate, inch/hr, Kobs  (corrected for test-specific bias) | | | | |  | |
| Design Infiltration Rate, in/hr, Kdesign = Kobs/ STotal | | | | |  | |
| **Supporting Data** | | | | | | |
| Briefly describe infiltration test and provide reference to test forms: | | | | | | |

**Note:** The minimum combined adjustment factor shall not be less than 2.0 and the maximum combined adjustment factor shall not exceed 9.0.