| **Factor of Safety and Design Infiltration Rate Worksheet** | | | | **Form I-6** | | |
| --- | --- | --- | --- | --- | --- | --- |
| 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 | Level of pretreatment/ expected sediment loads | 0.5 |  | |  |
| Redundancy/resiliency | 0.25 |  | |  |
| Compaction during construction | 0.25 |  | |  |
| Design Safety Factor, SB = Σp | | | |  |
| Combined Safety Factor, Stotal= SA x SB | | | | |  | |
| Observed Infiltration Rate, inch/hr, Kobserved  (corrected for test-specific bias) | | | | |  | |
| Design Infiltration Rate, in/hr, Kdesign = Kobserved / Stotal | | | | |  | |
| **Supporting Data** | | | | | | |
| Briefly describe infiltration test and provide reference to test forms: | | | | | | |