

Screening “Many to Some”

Screening Criteria Category: Engineering-Fundamentals

Screening Criteria Name: Location and Size of Piers

Brief Description of Importance:

Bridge alternatives considered have different number of piers in water; piers also vary in size and some piers are located in shallow water, defined as water depth of less than 20-ft and may have some environmental impact. If all other factors were considered equal, bridge with the smallest foundation footprint is considered the best. For pier location, piers located in water depth exceeding 20-ft are considered the best.

Metrics:

- A. Size of piers
- B. Location in deep water

Evaluation Methodology:

Best Score A= Smallest pier footprint
Best Score B= Located in deep water

Scoring:

Blended numeric score from 1-15. 15 = best, 1 = worst