

The diagram illustrates the experimental design for the study, showing the flow of samples from collection to storage and then to analysis. The design is organized into four main groups, each with three replicates:

- Tide Pool 1 (S1):** Samples are collected from Tide Pool 1 (S1) and stored in 12 vials (4 for each of the three replicates). These samples are then analyzed in 12 vials (4 for each of the three replicates).
- Tide Pool 2 (S2):** Samples are collected from Tide Pool 2 (S2) and stored in 12 vials (4 for each of the three replicates). These samples are then analyzed in 12 vials (4 for each of the three replicates).
- Nearshore (N):** Samples are collected from the Nearshore (N) area and stored in 12 vials (4 for each of the three replicates). These samples are then analyzed in 12 vials (4 for each of the three replicates).
- Field Blank:** Samples are collected from the Field Blank area and stored in 12 vials (4 for each of the three replicates). These samples are then analyzed in 12 vials (4 for each of the three replicates).

The diagram uses color-coded boxes to represent different stages of the process: yellow for collection, green for storage, and purple for analysis. The flow is indicated by arrows, showing the progression from collection to storage and then to analysis.