

The diagram illustrates the experimental design for the study. It shows four groups of samples: Tide Pool 1 (S1), Tide Pool 2 (S2), Nearshore (N), and Field Blank. Each group has three replicates. The samples are collected and then stored in a storage area before being analyzed. 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 as follows: Tide Pool 1 (S1) has 3 yellow boxes, 3 green boxes, 3 teal boxes, and 3 purple boxes. Tide Pool 2 (S2) has 3 yellow boxes, 3 green boxes, 3 teal boxes, 3 light blue boxes, 3 dark blue boxes, 3 purple boxes, and 3 dark purple boxes. Nearshore (N) has 3 yellow boxes, 3 green boxes, 3 teal boxes, 3 light blue boxes, 3 dark blue boxes, 3 purple boxes, and 3 dark purple boxes. Field Blank has 1 yellow box, 1 green box, 1 teal box, and 1 dark purple box.

Group	Replicate	Collection	Storage	Analysis
Tide Pool 1 (S1)	1	Yellow	Green	Teal
	2	Yellow	Green	Teal
	3	Yellow	Green	Teal
Tide Pool 2 (S2)	1	Yellow	Green	Teal
	2	Yellow	Green	Teal
	3	Yellow	Green	Teal
Nearshore (N)	1	Yellow	Green	Teal
	2	Yellow	Green	Teal
	3	Yellow	Green	Teal
Field Blank	1	Yellow	Green	Teal