

Lab 9, part 1: Depositional Environments and Facies Changes

A. Below, on the idealized *elevation profile* of the area south of Tom's River delta (see accompanying map, along the cross-sectional line A-A'), locate and **label** above the *profile line* the following environments:

- | | | |
|--------------------------|----------------------------|--------------------|
| 1. Mid-continental shelf | 2. Inner continental shelf | 3. Foreshore beach |
| 4. Backshore dunes | 5. Subtidal lagoon | 6. Tidal mud flats |
| 7. Supratidal marsh | 8. Fluvial (river) areas | 9. Upland |

B. Under the appropriate depositional environment on the cross section, below the profile line, write the **name of a rock** that would be the result of the lithification of the sediment in that depositional environment. **Color** each depositional environment's rock a different color. Note that you may *repeat* some of the rock numbers and *not use* others at all.

