

Table 3: Habitat Type and Monitoring Parameter Matrix

Last updated 05/27/04

| | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-Stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft Bottom/Mud | Soft Bottom/Sand | Submerged Aquatic Vegetation | Upland | Water Column |
|------------------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Physical Characteristics | | | | | | | | | | | | | | | | | | | | | |
| Channel characteristics | | | | | x | | | | | | | | | | | | | | | | |
| Hydrology | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | | | |
| Light penetration/secchi | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | | x | |
| Temperature | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Topography/Geomorphology | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | | |
| Turbidity | | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Pool/riffle ratio | | | | | | x | | | | | | | | | | | | | | | |
| Water Column Characteristics | | | | | | | | | | | | | | | | | | | | | |
| Chlorophyll concentration in water | | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Dissolved Oxygen | | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Fecal coliforms | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Nitrogen | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Nutrient cycling | | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Phosphorus | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Silicon | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| pH | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Salinity | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Toxics | x | | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |

| Soil and Substrate Characteristics | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub Swamp (non-mangrove) | Soft Bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|------------------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Bulk density | | | x | | | | | x | | | | | | x | | | | | | | |
| Moisture levels and drainage | | | x | | | | | x | | | | x | | x | | | | | | | |
| Nitrogen (pore water) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Nutrient cycling | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Phosphorus (pore water) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Silicon | x | | | | | | | | | | | x | | | | | | | | | |
| Organic content | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| pH (pore water) | x | | | | | | | | | | x | x | x | | | | | | | x | |
| Salinity (pore water) | | | | x | | | | | | | x | x | x | x | | | | | | x | |
| Sediment texture | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Sedimentation rate and quality | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |

| Vegetation | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|-----------------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Abundance | x | x | x | x | x | | x | x | x | | x | x | x | x | x | | | x | x | x | |
| Composition | x | x | x | x | x | | x | x | x | | x | x | x | x | x | | | x | x | x | |
| Basal area | | | x | | | | | x | x | | | x | | x | | | | | x | x | |
| Biomass | x | x | x | x | x | | x | x | x | | x | x | x | x | x | | | x | x | x | |
| Canopy areal extent and structure | | | x | x | | | | x | x | | | x | x | x | x | | | x | x | | |
| Density | x | x | x | x | x | | x | x | x | | x | x | x | x | x | | | x | x | x | |
| Diversity | x | x | x | x | x | | x | x | x | | x | x | x | x | x | | | x | x | x | |
| Edge to area ratio | | | x | | | | | | | | x | | x | | | | | | | | |
| Herbivory/disease | X | X | x | x | x | | x | x | x | | x | x | x | x | x | | | x | x | | |
| Litter fall | | | x | | | x | | x | x | | x | x | | | | | | | x | | |
| Growth rate | X | X | x | X | x | | x | x | x | | x | x | x | x | x | | | x | x | x | |
| Percent cover | x | x | x | x | x | | x | x | x | | x | x | x | x | x | | | x | x | X | |
| Productivity rate | X | X | x | X | x | | x | x | x | | x | x | x | x | x | | | x | x | x | |
| Ratio of vegetation to open water | | | x | x | | | | x | | | x | | x | x | x | | | x | | x | |
| Recruitment | x | x | x | x | x | | x | x | x | | x | x | x | x | x | | | x | x | x | |

| | | | | | | | | | | | | | | | | | |
|--------------|---|--|---|---|---|---|--|---|---|---|--|---|---|--|---|---|--|
| Survival | x | | x | x | x | x | | x | x | x | | x | x | | x | x | |
| Woody debris | | | | x | | x | | x | x | x | | x | x | | x | x | |

| Amphibians | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft Bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|----------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Abundance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Biomass | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Density | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Disease | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Distribution | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Diversity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Growth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Population age composition | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Predation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Recruitment | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Size | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Survival | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

| Birds | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian vegetation (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft Bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|----------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Abundance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Biomass | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Density | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Disease | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Distribution | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Diversity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Growth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Population age composition | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Predation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Recruitment | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Size | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Survival | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

| Fish | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft Bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|----------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Abundance | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |
| Biomass | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |
| Density | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |
| Disease | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |
| Distribution | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |
| Diversity | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |
| Growth | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |
| Population age composition | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |
| Predation | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |
| Recruitment | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |
| Size | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |
| Survival | x | | x | x | x | x | x | x | | x | x | | x | x | x | x | x | x | | x | |

| Invasive Species (Fauna) | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft Bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|----------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Abundance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Biomass | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Density | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Disease | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Distribution | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Diversity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Growth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Population age composition | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Predation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Recruitment | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Size | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |
| Survival | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | |

| Invasive Species (Vegetation) | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft Bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|-------------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Abundance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Biomass | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Distribution | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Growth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Population age composition | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Recruitment | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Size | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

| Invertebrates | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft Bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|----------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Abundance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Biomass | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Density | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Disease | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Distribution | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Diversity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Growth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Population age composition | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Predation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Recruitment | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Size | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Survival | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

| Mammals | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft Bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|----------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Abundance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Biomass | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Density | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Disease | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Distribution | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Diversity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Growth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Population age composition | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Predation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Recruitment | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Size | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Survival | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

| Mixed Assemblage | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft Bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|----------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Abundance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Biomass | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Density | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Disease | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Distribution | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Diversity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Growth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Population age composition | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Predation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Recruitment | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Size | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Survival | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

| Reptiles | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft Bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|----------------------------|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Abundance | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Biomass | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Density | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Disease | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Distribution | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Diversity | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Growth | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Population age composition | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Predation | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Recruitment | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Size | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Survival | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |

| Other | Beach | Coral Reef | Dune | Forested Wetland | Freshwater Marsh | Hard Bottom | In-stream | Kelp | Mangrove | Maritime Forest | Oyster Reef/Shell bottom | Pond | Riparian Zone (non-wetland) | Rocky Shoreline | Salt Marsh | Shrub swamp (non-mangrove) | Soft Bottom/mud | Soft Bottom/sand | Submerged Aquatic Vegetation | Upland | Water Column |
|--|-------|------------|------|------------------|------------------|-------------|-----------|------|----------|-----------------|--------------------------|------|-----------------------------|-----------------|------------|----------------------------|-----------------|------------------|------------------------------|--------|--------------|
| Debris | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |
| Qualitative assessment (e.g. photo interpretation) | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x | x |