

TABLE 5. Summary of Biological Observations Made at Transect BP-2-B, 0.25 km East of the Discharge Pipe and 1.5 km Inshore and Northeast of Barbers Point Ocean Outfall Terminus, on 11 January 1999

| | | Percent Cover | | | | |
|--------------------------------|------|---------------------------------|------|------|------|------|
| I. Quadrat Survey | | Quadrat Distance Along Transect | | | | |
| | | 0 m | 5 m | 10 m | 15 m | 20 m |
| Algae | | | | | | |
| <i>Asparagopsis taxiformis</i> | | | | 1.0 | | |
| <i>Sphacelaria furcigera</i> | 0.3 | | | | | |
| <i>Dotyella hawaiiensis</i> | | | | | | 0.3 |
| | | | | | | |
| Sponges | | | | | | |
| <i>Chondrosia chucalla</i> | 0.5 | 0.1 | 0.2 | 0.4 | | 0.3 |
| <i>Spirastrella coccinea</i> | | | | | | 0.1 |
| Unidentified orange sponge | 0.2 | | | | | |
| | | | | | | |
| Soft Corals | | | | | | |
| <i>Anthelia edmondsoni</i> | | | | 0.3 | | |
| | | | | | | |
| Corals | | | | | | |
| <i>Porites lobata</i> | 0.9 | 0.3 | 0.6 | 0.2 | | 0.1 |
| <i>Pocillopora meandrina</i> | 0.1 | 0.3 | 0.9 | 1.0 | | 0.3 |
| <i>Montipora patula</i> | | 0.4 | 0.5 | | | |
| <i>Montipora verrucosa</i> | | 0.1 | | | | |
| | | | | | | |
| Sand | 4.0 | 2.0 | 2.0 | 14.0 | | 1.0 |
| Hard Substratum | 94.0 | 96.8 | 94.8 | 15.9 | | 97.9 |

| | | | | | |
|--|-----------------------|--|--|--|--|
| II. Macroinvertebrate Census (4 m ∞ 20 m) | No. of Individuals | | | | |
|--|-----------------------|--|--|--|--|

| | |
|---|---|
| Phylum Annelida | |
| <i>Spirobranchus giganteus corniculatus</i> | 1 |
| | |
| Phylum Arthropoda | |
| <i>Aniculus strigatus</i> | 1 |
| | |
| Phylum Echinodermata | |
| <i>Echinothrix calamaris</i> | 1 |
| <i>Echinothrix diadema</i> | 5 |
| <i>Echinostrephus aciculatum</i> | 1 |
| <i>Tripneustes gratilla</i> | 2 |

| | | | | | |
|--------------------------------------|--|--|--|--|--|
| III. Fish Census (4 m ∞ 20 m) | | | | | |
|--------------------------------------|--|--|--|--|--|

| | | | | | |
|----------------|--|--|--|--|--|
| 11 Species | | | | | |
| 33 Individuals | | | | | |

| | | | | | |
|---|--|--|--|--|--|
| Estimated Standing Crop = 31 g/m ² | | | | | |
|---|--|--|--|--|--|

NOTE: Results of the 5-m² quadrat sampling (visual appraisal) of the benthic community are presented in Part I, counts of diurnally exposed macroinvertebrates are given in Part II, and a summary of the fish census is presented in Part III. Water depth ranges from 11.3 to 11.9 m; mean coral coverage is 1.1% (visual quadrat method).