as a potentially high risk to either the Coral World dolphins or wild marine mammals, a plan is implemented by the attending veterinarian, in concert with federal and territorial wildlife agencies, to prevent disease transmission between the two populations. Coral World believes that the risk of disease transmission is very low and because the animals are so well medically managed, presents a much lower risk than the domestic and feral dog and cat populations on the island.

5.01a Purpose of the Project

The purpose of the dolphin encounter exhibit is to enhance the ecotourism experience by creating a state-of-the art venue. It is anticipated that this new venue will attract and educate more than 25,000 to 35,000 new visitors per year, while creating a need to employ an additional 25 staff members with a monthly payroll of \$54,000. The additional revenues projected to be generated from the exhibit will generate additional revenues to the Government of the US Virgin Islands and will enhance the overall tourism project for St. Thomas. It is further expected that the annual operating budget of the new exhibit will be \$3,999,500.

5.01b Presence and location of any critical areas and possible trouble spots

Coral World is requesting a new submerged lands lease that will adjoin the existing lease and will provide a 40 foot buffer zone surrounding the enclosure, similar to the exiting buffer zone surround the observation tower. Dolphins are very acoustic and rely on their hearing for most of their sensory input. They are very adaptable to boat traffic so the buffer should not have to encompass any more space than the 40 foot area. This project should not impact users of Water Bay including jet skiers who will only need to obey existing guidelines for operation. The facility will have navigation lighting which will help local fishermen navigate the bay at dark. Coral World will maintain its existing submerged land lease on the west side of the enclosure to help protect the grass beds in that area even though this area has no current economic benefit to Coral World.

The area of Water Bay that will be encompassed by the dolphin exhibit and the 40 buffer zone is less than 5% of the surface are of Water Bay from Coki Point to the Renaissance Beach. Coral World has an existing buffer around the underwater observatory to protect the viewing of fish by visitors. This area is enforced by a simple buoy line and staff presence during daylight hours. Coral World would enforce the buffer around the dolphins by a buoy line and through the use of security guards in the off hours.

The project area is located in Water Bay on the north side of the island of St. Thomas. Water Bay was highly impacted by dredging activity which occurred in 1961, 1965 and again in 1968. A study of the area suggest wide spread coral morality in the bay as a result of this activity. There are still dense grass beds in the center of the bay in areas that were not dredge, there is a scattered cobble/rock shoreline community which fringes the southern side of the point and there is a hard rock bottom community surrounding the terminus of Coki Point. The hard substrate areas enjoy moderate coral colonization and

process (for estimating pest risk associated with the introduction of nonindigenous organisms). Animal and Plant Health Inspection Service, U.S. Department of Agriculture, Beltsville, MD.

the 40 foot area. This project should not impact users of Water Bay including jet skiers who will only need to obey existing guidelines for operation. The facility will have navigation lighting which will help local fishermen navigate the bay at dark. Coral World will maintain its existing submerged land lease on the west side of the enclosure to help protect the grass beds in that area even though this area has no current economic benefit to Coral World.

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The project area is located in Water Bay on the north side of the island of St. Thomas. Water Bay was highly impacted by dredging activity which occurred in 1961, 1965 and again in 1968. A study of the area suggest wide spread coral morality in the bay as a result of this activity. There are still dense grass beds in the center of the bay in areas that were not dredge, there is a scattered cobble/rock shoreline community which fringes the southern side of the point and there is a hard rock bottom community surrounding the terminus of Coki Point. The hard substrate areas enjoy moderate coral colonization and there are large scattered coral heads and large soft corals. In most areas there is a band of sand between the shoreline areas of colonized bedrock and the off shore seagrass beds. There are Acropora palmata to the east of the pier just outside the project site, these corals were listed on the endangered species list in 2008. Both Montastrea annularis and Dendrogyra cylindrus, which will be listed on the federal endangered species list in December of 2012, occur within the proposed enclosure and Montastrea annularis occurs within the footprint of the enclosure and will require relocation.

Water Bay enjoys good water quality. The project has the potential to impact water quality both during construction and operation. During upland construction soils will be disturbed and a potential for sedimentation and erosion will be created. Sediment and erosion control measures will be implemented and maintained during all upland construction activities. The marine construction will consist of the driving of piles and the placement of docks and fencing. The direct pile driving or utilizing a vibra-hammer will have a minimal potential for creating turbidity. However if rock is encountered it is possible that piles may need to be socketed. Pile socketing greatly increases the potential for turbidity, and creates large volumes of rock flour. Base on observations in the field and the construction of the existing dock, the only a very limited number of piles may require socketing. These piles would probably be in the hard bottom area west of the dock. Turbidity barriers (silt curtains) will be installed surrounding all pile driving/socketing activities. The curtains will serve not only to maintain turbidity created by pile driving but will also contain floating debris within the project area. The turbidity barriers will be properly installed and will extend to within 1 ft. of the seafloor where piles are driven. Curtains will extend to the seafloor if piles require socketing. There are several Acropora palmata located to the east of the proposed structure. It is imperative that turbidity be controlled with these endangered species only 150 ft. to the east of the proposed activity.

A water quality monitoring program will be implemented during construction, which will include daily monitoring of turbidity within the construction area.

Once the project is in operation, there will be between 5 and 10 animals within the enclosure. These animals will be feed and will defecate within the pen and therefore will have an impact on water quality. The dolphins will have an impact on total coliform and fecal coliform bacteria in the water column when they defecate. Coral World will implement a stringent water quality monitoring program to ensure that fecal coliform levels do not become elevated above the allowable limits. Based on existing data 5 dolphins should not result in significantly elevated readings, if it is determined that the dolphin are responsible for negatively impacting the water quality overfeeding or other contributing issues will have to be evaluated and corrected. DPNR will be informed and involved in the solution.

The placement of both the double row of fencing and the wave barrier will have impacts on water circulation around the facility itself. The shoreline is not one where there is a lot of transport of sediments along the shoreline so there should be no impact on longshore transport. The fencing will

Roatan Honduras has an open water program which houses 26 dolphins and currently has 5 pregnant dolphins. The water quality is excellent except when human influences cause water problems for the dolphins. The facility in Roatan has been in operation for 22 years.

The dolphins maintained by these organizations are very valuable and in the United States federally protected. The dolphins require good water quality. The programs all depend on humans entering the water with these animals so there is a self-serving interest to make sure that the water is clean in and outside of the enclosure for both the animals and the humans who pay to enter the water with them. Several facilities have their dolphin facilities at or adjacent to very popular swimming beaches with no negative impact to these beaches.

As noted at several of the facilities above, there is also the issue of the impact of ambient water quality on the dolphins. Discharge from the large drainage located near Pineapple Village, can be contaminated by faulty septic tanks and by leaks from the Pineapple Village sewage treatment plant. In the event that water quality significantly degrades within the bay in order to prevent illness in the dolphins they will be removed from the off shore enclosure into the temporary pools. Water will be filtered from the pools and the TPDES permit for the facility is being modified to include this discharge. The existing TPDES permit is provided in Appendix F.

There also exist the potential for animals being sick and in the even that this occurs the animals will be moved into one of the isolated pools and be placed under veterinary care.

The placement of both the double row of fencing and the wave barrier will have an impact on water circulation around the facility itself. The shoreline is not one where there is a lot of transport of sediments along the shoreline so there should be no impact on long shore transport. The fencing will reduce currents by as much as 25% and the wave barrier since it is solid will create an area of still water downstream of the current direction. This will reduce the flushing of the area. This will have less of an impact to the east, because surface currents in the area are usually to the west, there is a current to the east a depth but this will only be partially blocked since the wave barrier will only extend 5 ft. from the surface. The stilling of the current behind the wave barrier could result in slightly higher temperatures and buildup of nutrients and bacteria. The water quality monitoring will include testing both in and outside of the pens to ensure that negative impacts are not occurring.

Water Bay is a well-protected bay due to its shape and the protection of the off lying islands. This makes it an ideal location for the dolphin enclosure as far as protection under normal sea condition. The bay is highly impacted by run off and discharge into the bay from the large watershed which primarily discharges through the Renaissance/Pelican Cove property. Because tidal amplitude in the Virgin Islands is limited there is limited tidal exchange which is further reduced due to the openness of the bay. Surface currents were found to be to the west and are highly dependent on wave height and direction and wind. Drogues were found to move in a westerly or northwesterly direction and all were carried into the shallows of the dolphin enclosure layout.

During dives currents mid-water and at the sea floor were noted both to the east and west. The westerly currents moving back into the channel where the water rejoins the westerly flow between the islands. While currents are not as strong as the offshore flow, there is movement within the bay. And water quality measurements by Coral World and by the Department of Planning and Natural Resources (DPNR) only show intermittent reduced water quality and the DPNR sampling site is in the area of the bay most



Figure 6.06.1 Benthic Habitats encountered during surveys 2004-2012.

The Benthic Community

Southern Side of Coki Point

During the surveys in 2004 an abundance of green algae, *Ulvaria*, *Ulva* and *Chaetomorpha*, was found in high abundance along the shoreline indicating an area of high nutrients. During the surveys in the summer of 2005 the algae was almost non-existent, but the algae was again patchily abundant in January of 2012, but was gone by February 2012. This indicates periodic introduction of nutrients into the bay.

The bay was dredged in 1961, 1965 and 1968. The dredging of 400,000 cubic yards of material was permitted to be dredged from below a depth of 27ft. This material was deposited in the salt pond where Pineapple Village was constructed and was used to nourish the beach. Most of the dredged areas contain a minimal amount of algal cover. The dredge area is located to the east of the project area. The dredging is describe has having resulted in the dead of corals throughout the bay in a 1969 study conducted by the Caribbean Research Institute, College of the Virgin Islands (1969).

There is an existing dock extending from Coki Point and this dock serves as a dividing line between the coral colonized bedrock to the east and the scattered coral outcroppings to the west and colonized pavement. The coral colonized bedrock to the west extends off shore between 20' and 50' moving towards the point. There are a few *Acropora palmata* scattered within the shallows to the east of the dock. To the west of the pier within the shallows there are scattered boulders extending from the rocky shoreline and these enjoy sparse coral colonization. Within this area there are scattered coral

outcroppings primarily consisting of Montastrea annularis, which is being listed on the endangered species list in May of 2012. These outcroppings are scattered in uncolonized sand, and uncolonized coral rubble and vary in abundance and live tissue coverage. Moving westerly in the shallows there is patch dense colonization by the algae Sargassum. Farther to the west the sandy/cobbly bottom gives way to seagrass colonization, and the scattered coral colonies are found within sparse to moderately dense Thalassia beds. There is a large area of coral rubble (consist of primarily Porites porites rubble) toward the western end of the proposed enclosure and it has scattered Thallassia growing between the small fragments. An occasional live Porites fragment can be found within the rubble. Seagrasses become denser to the west and to the south as the water deepens. In the deeper water, seagrasses become denser to the west, but to the east there are areas where the grass becomes very sparse and in areas completely die off. There is scattered Amphimedon compressa within the seagrass beds. To immediate east of the dock coral colonization is minimal. Moving more westerly off the dock coral colonization increases for both hard and soft corals. Corals noted within the project area include Montastrea annularis, Siderastrea siderea, Porites porites, Porites astreiodes, Diploria strigosa, Siderastrea radians ,Dendrogyra cylindrus, Agaricia agaricites,Diploria labyrinthiformis,Favia fragum, Pseudopterogorgia americana, Gorgonia ventalina, Plexaura flexuosa and Montastrea cavernosa.. Sponges within the area include Amphimedon compressa, Ircinia felix, Aplysina cauliformis, Neofibularia nolitangere, Verongula rigida and Aplysina insularis. There are numerous large Siderastrea siderea heads within the shallows immediately along the shoreline. Algae is abundant especially in the shallow coral areas, noted were Caulerpa, Sargassum, Udotea, Halimeda, Penicillus, Dictyota and Laurencia.



Montastrea is the most abundant coral within the area.



Scattered corals in the shallows.

Table 6.06.1 Result of quadrat analysis done along the transect lines.

Transect	Quadrat	Species	Percent Cover	Substrate	Note
Γ-1	1	Montastrea annularis	35	sand	
18° 20.938'N		Amphimedon	5	sand	
64° 51.864'W	2	Montastrea annularis	45	sand	
4 001 P0000000		Halimeda	35	sand	
	3	Montastrea annularis	40	sand/rubble	
······································		Halimeda	30	sand/rubble	***************************************
	4	Montastrea annularis	5	sand/rubble	
		Porites astreoides	10	sand/rubble	
		Siderastrea siderea	40	sand/rubble	
		Halimeda	25	sand/rubble	
	5	Montastrea annularis	10	sand/rubble	
		Halimeda	5	sand/rubble	
	6	Dictyota	5	sand/rubble	
	7	Penicillus	5	sand/rubble	
		Halimeda	5	sand/rubble	
	8	Montastrea annularis	5	sand/rubble	
		Porites astreoides	5	sand/rubble	
		Siderastrea siderea	5	sand/rubble	
		Halimeda	5	sand/nubble	Diadema antillarum
	9	Porites astreoides	15	sand/rubble	***************************************
		Halimeda	5	sand/rubble	
	10	Diploria strigosa	10	sand/rubble	
		Halimeda	35	sand/rubble	
	11	Halimeda	35	sand/rubble	
	12	Sargassum	10	rock	
	13	Diploria strigosa	25	rubble	
	14	Porites astreoides	15	rubble	
		Montastrea annularis	10	rubble	
	15	Siderastrea radians	5	rubble	
		Udotea	5	rubble	
	16	Spheciospongia	5	sand	
		cuspidifera			
		Halimeda	5	sand	
		Porites astreoides	5	sand	
	17	Diploria strigosa	55	rubble	
		Halimeda	15	rubble	
	18	Thalassia	85	sand/rubble	120blades/m2
	19	Thalassia	100	sand/rubble	
	20	Diploria strigosa	5	sand/rubble	
		Dictyota	5	sand/rubble	
18° 20.959'N		Thalassia	15	sand/rubble	
64° 51.901'W		Halimeda	5	sand/rubble	

T-2	1	Thalassia	65	sand/rubble	
18° 20.950'N	 	Porites astreoides	10	sand/rubble	
64° 51.905'W		Halimeda	5	sand/rubble	
	2	Thalassia	45	sand/rubble	
	 	Montastrea	10	sand/rubble	
	1,	annularis	1.5	111	
	3	Halimeda	15	rubble	
	4	Thalassia	35	rubble	Tripneustes
	5	Thalassia	95	sand	322blades/m2
		Halimeda	5	sand	
	6	Halimeda	10	rubble	
		Dictyota	5	rubble	
	7	Thalassia	30	rubble	
		Halimeda	10	rubble	
		Penicillus	2	rubble	
	8	Thalassia	75	sand	
		Penicillus	5	sand	
		Halimeda	5	sand	
	9	Caulerpa	5	coral rock	
		Siderastrea radians	5	coral rock	
		Halimeda	5	coral rock	
	10	Thalassia	50	sand	
		Dictyota	50	sand	
	11	Thalassia	40	sand	
	1	Halimeda	5	sand	
	 	Penicillus	5	sand	
	12	Thalassia	25	sand	
		Laurencia papillosa	5	sand	
		Syringodium filiforme	5	sand	
	13	Thalassia	40	sand	
		Laurencia papillosa	5	sand	
	14	Aplysina fulva	5	sand	
	-	Thalassia	85	sand	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Porites porites	5	sand	
	15	Thalassia	35	sand	
***********		Halimeda	5	sand	
	16	Thalassia	35	sand	
		Halimeda	15	sand	
	17	Thalassia	25	sand	
• •	+	Syringodium	5	sand	
		filiforme			
		Halimeda	30	sand	
	18	Thalassia	25	sand	
		Halimeda	5	sand	
	19	Halimeda	35	sand	
18° 20.900'N	20	Halimeda	25	sand	
64° 51.838'W		Penicillus	5	sand	

T-3	1	Aplysina fulva	5	sand
18° 20.916'N		Thalassia	5	sand
64° 51.857'W	2	Aplysina fulva	5	sand
***************************************	3	Aplysina fulva	5	sand
		Penicillus	5	sand
		Halimeda	5	sand
	4	Montastrea annularis	35	sand
		Halimeda	5	sand
	5	Porites astreoides	10	coral rock
***************************************		Siderastrea siderea	5	coral rock
		Montastrea annularis	5	coral rock
	-	Halimeda	5	coral rock
	6	Montastrea annularis	35	coral rock
		Dictyota	5	coral rock
	7	Montastrea annularis	45	coral rock
		Halimeda	35	coral rock
	8	Diploria	25	coral rock
	-	labyrinthiformis Halimeda	30	coral rock
	9	Montastrea annularis	45	coral rock
		Laurencia papillosa	15	coral rock
		Halimeda	5	coral rock
	10	Sideratrea siderea	30	coral rock
		Montastrea annularis	10	coral rock
		Halimeda	5	coral rock
	11	Halimeda	5	sand
	12	Montastrea annularis	20	sand/rubble
		Halimeda	15	sand
	13	Diploria	30	coral rock
		labyrinthiformis		
		Porites astreoides	10	coral rock
	_	Halimeda	5	coral rock
	14	Sideratrea siderea	65	sand
		Halimeda	15	sand
		Penicillus	5	sand
	15	Muriceopsis flavida	5	coral rock
		Halimeda	5	coral rock
	16	Montastrea annularis	10	coral rock
		Calyx podatypa	10	coral rock
	17	Agaricia agaricities	5	coral rock
		Halimeda	5	coral rock
		Penicillus	1	coral rock
	18	Porites astreoides	15	coral rock
		Halimeda	5	coral rock
	19	Montastrea annularis	25	coral rock
-		Porites astreoides	10	coral rock

		Halimeda	5	coral rock	
	20	Montastrea annularis	15	coral rock	
		Halimeda	45	coral rock	
18° 20.919'N		Agaricia agaricities	15	coral rock	
64° 51.824'W		Porites astreoides	5	coral rock	

T-4	1	Porites astreoides	10	coral rock
18° 20.922'N		Montastrea annularis	45	coral rock
64° 51.826'W		Halimeda	10	coral rock
	2	Porites porites	10	coral rock
		Aplysina fulva	10	coral rock
		Agaricia agaricities	15	coral rock
	3	Pseudopterogorgia sp	10	coral rock
		Montastrea annularis	10	coral rock
		Porites astreoides	10	coral rock
	4	Montastrea annularis	35	coral rock
		Agelas conifera	5	coral rock
	5	Montastrea annularis	30	coral rock
		Muricea pinnata	5	coral rock
		Gorgonia ventalina	10	coral rock
	6	Montastrea annularis	25	coral rock
		Plexaurella nutans	5	coral rock
		Porites astreoides	5	coral rock
	7	Siderastrea siderea	45	coral rock
		Montastrea annularis	15	coral rock
	8	Montastrea annularis	15	coral rock
······································		Plexaurella nutans	5	coral rock
		Calyx podatypa	5	coral rock
	9	Montastrea annularis	15	coral rock
		Muricea sp	5	coral reck
		Halimeda	15	coral rock
	10	Diploria strigosa	15	coral rock
	11	Diploria strigosa	10	rock
		Porites astreoides	5	rock
		Halimeda	10	rock
····	12	Siderastrea siderea	15	rock
	13	Diploria strigosa	35	rock
		Porites astreoides	15	rock
		Calyx podatypa	5	rock
		Sideratrea siderea	5	rock
	14	Porites astreoides	15	rock
		Halimeda	15	rock
	15	Halimeda	15	rock
	16	Diploria strigosa	25	rock
		Halimeda	25	rock
	17	Halimeda	25	rock

	18	Siderastrea siderea	25	rock	
		Dictyota	25	rock	
		Halimeda	25	rock	
	19	Halimeda	15	sand/rubble	
		Udotea	2	sand/rubble	
18° 20.935'N	20	Montastrea annularis	45	sand	
64° 51.864'W		Halimeda	25	sand	

IMPACT OF DEVELOPMENT

The enclosure will have an impact on corals and seagrasses within the bay. Corals and seagrass lie within the foot print of the pilings and docks. The enclosure has been designed to avoid the areas of densest seagrass. There are a total of 158 pilings, 100 pilings lie with the area with scattered coral outcroppings, 9 pilings lie within areas with areas with scattered corals within sparse to moderate seagrass beds. And 38 pilings lie with areas with sparse seagrass to minimally colonized sand, 9 pilings lie within the hard bottom, and 3 piles lie within the seagrass *Porites* rubble area.

The pilings will directly impact seagrasses in their foot prints and will also create a halo due to wave turbulence. Each piling will directly affect 1 sq. ft. of seagrass and each piling will probably affect a maximum of 2 additional ft. due to water turbulence base on halos seen around rubble and debris within the area. The close placement of the pilings for the wave barrier will result in a continuous disturbance of the seafloor along its length. During storm event additional scouring could occur. The fencing will reach the seafloor and will also have an impact on benthic resources, and the dock will directly shade 0.4 acres (17,424 sq. ft.) of benthic habitat. It is probable that the enclosure will result in a loss of 0.05 acres (2178 sq. ft) of seagrass. The structure will impact approximately 0.32 acres (13,929 sq. ft.) of scattered coral habitat, 0.01 acre (436 sq. ft.) of seagrass in *Porites* rubble, 0.01 acre (436 sq. ft.) of hard bottom and 0.02 acres (872 sq. ft.) of scattered seagrass and coral.

Coral colonized boulders and outcrops lie in the piling foot print as well as the foot print of the fencing and dock. These corals, boulders and outcrops must be relocated not only to protect the coral but also to actually install the facility. Most of the coral boulders, even of significant size are not attached to bedrock and therefore can be moved utilizing lift bags. The few corals which are attached to bed rock or that are too rocks or boulders too large to be moved will be removed from their substrate with a hammer and chisel and reattached to the hard bottom to the east. Where possible a portion of the rock will be broken free as well so that the colonizing corals do not have to be removed from their substrates. In order to minimize impacts from the construction these corals/boulders will be relocated a minimum of 20 ft. outside the proposed facility foot print. Corals and boulders will be relocated from an area of 10ft width along the length of the main docks and the enclosure areas. Based on the lay out of the docks and the enclosure approximately 250 corals will require moving, these corals include *Montastrea annularis, Siderastrea siderea, Diploria strigosa, Porites astreoides, Porites porites* and *Pseudopterogorgia americana*. The coral relocation plan is found in Appendix D.

Once the construction of the facility is complete and the fencing has been installed there will be a change in water current within the area. The installation of the double fencing will probably decrease current movement and flushing through the area by approximately 25%. The placement of the wave dampener will significantly serve to further reduce the water movement and flushing. Between 6 and 10 dolphins will be kept in the pen and will be feed and will defecate within the structure. This will

result in the introduction of nutrients. Similar facilities do not show an excessive buildup of fecal coliform bacteria as a result of maintaining the dolphins. The dolphin feces should be consumed by other fish within the area and should not result in the eutrophication of the area.

The facility will effectively enclose an area of 74,000 sq. ft. animals larger than the 3 inch mesh size will be trapped inside the enclosure and those outside excluded. Sea turtles occur within the area and when the facility is being built it will be imperative that these animals not be trapped within the enclosure. No turtle feeding plots were noted in the enclosure although turtles were noted within the proposed pen footprint. The enclosure will be periodically opened and closed and this will allow for some animal movement in and out of the pen. The pen will have an impact of the movement of fish within the area which are larger than the mesh size. There are no exclusive habitats within the mesh that are not found in abundance within the bay and surrounding areas.

The pilings will become colonized overtime and the fencing will become fouled. The fencing will have to be periodically cleaned to prevent the further reduction in water circulation. The Coral World Dolphin Habitat fence will be inspected daily and large debris removed immediately and the overgrowth on fencing material will be removed by hand by divers or from the surface with brushes as needed. The dolphins should not have an impact on corals or the seagrass within the enclosure. It is likely that the dolphins will eat any larger fish trapped within the enclosure. Any conch found within the enclosure will be relocated to the adjacent grass beds to reduce impacts on their foraging and migration.

Tarpon, snook, sting rays, eagle rays and barracuda have all been seen in the vicinity of the proposed enclosure during benthic and current studies conducted at the site. The pen will exclude all animals larger than the mesh size. The pens have been lain out to avoid the denser deeper seagrass beds. The same habitats which occur within proposed enclosure, sparse seagrass beds and scattered coral habitat occur to the east, west and south of the enclosure and the loss of 1.722 acres of habitat will not result in a significant impact to these animals.



6.07 Terrestrial Resources

Coral World is an existing marine park located on Coki Point on the east end of St. Thomas, south of the Leeward Passage and Coki Bay and north of Water Bay. Coki Point is rocky peninsula surrounded by rocky shores and supporting a dry coastal environment.

6.07 A FLORA

The Coral World facility is a mixture of buildings, parking, walkways, exhibits and extensive landscaping. Only the immediately shoreline supports a fairly unaltered terrestrial community. The boardwalk of the facility will be constructed within this area. The shoreline supports banyan trees (Ficus microphyllacoconut palms (Cocos nucifera), seagrapes (Cocoloba uvifera), West Indian almonds (Terminalia catappa), milk trees (Plumeria alba), scattered white mangroves (Laguncularia racemosa), manchineel (Hippomane mancinella), pendula (Citharexylum caudatum), Jamaican capers (Capparis jamaicensis), bread and cheese (Pithecellobium unguis-cati), hiati-hiati (Thespesia populnealimber caper (Capparis flexuousa), water mampo (Pisonia fragans), log wood (Haematoxylum campechianum), pencil bush (Euphorbia tirucalli), opuntia (Opuntia moniliformis), Capparis indica, dildo cactus (Cephalocereus