

Table 5.1 Environmental impact matrix for CMPL shrimp farm expansion.

	PROJECT ACTIVITIES																												TOTAL IMPACT
	CONSTRUCTION PHASE														OPERATIONS PHASE														
	Reservoir, Ponds and Processing Plant														Pond Production						Processing						T/port		
	Vegetation clearance	Vegetation disposal	Earth moving / pond construction	Materials sourcing	Materials transport	Materials storage	Intake construction	Equipment maintenance	Construction waste disposal	Embankment planting	Employment	Entrainment at intake	Pond filling & water exchange	Stocking / fertilisation / feeding	Viral disease / control	Pond effluent release	Species escape	Pump fuel storage	Electricity demand	Training / employment	Fresh water demand	Electricity demand	Organic waste disposal	Sewage disposal	Training / employment	Dusting	Road wear & tear		
ENVIRONMENTAL FACTORS	<b>WATERSHED / TERRESTRIAL RESOURCES</b>																												
	Climate / Microclimate	1																											1
	Vegetation	2																											2
	Wildlife	2	1																										3
	Soil erosion	1	2	1						3			2			3													12
	Surface run-off / drainage pattern	1														2													3
	Groundwater								1									1					1	1					4
	<b>FRESHWATER RESOURCES</b>																												
	Surface water flows												2			3													5
	Surface water quality	1						2					2			3													8
	Surface water ecology											1	1			3													5
	Groundwater quality								1									1			1		1	1					5
	<b>COASTAL MARINE RESOURCES</b>																												
	Water currents / beach dynamics																												0
	Coastal water quality															1													1
	Coral reefs																												0
	Seagrass beds																												0
	Soft bottom communities																												0
	Mangroves																												0
	Beaches																												0
	Fish & fisheries											1			3	3													7
	<b>CRITICAL ECOSYSTEMS / HABITATS / SITES</b>																												
	Terrestrial / marine protected areas																												0
	Forests																												0
	Mangroves & Wetlands																												0
	Archaeology / historical sites																												0
	<b>DISASTER VULNERABILITY</b>																												
	Flooding																3												3
	Earthquake																3												3
	Storm surge																												0
	<b>SOCIO-ECONOMIC</b>																												
	Quality of life										1									2						2			5
Business opportunity										1									2						2			5	
Land use & value																											1	1	
Traditional corridors / amenity			2																									2	
Traffic / road wear-and-tear					2																							2	
Community awareness / involvement										1									1						1			3	
Illegal quarrying			2																									2	
Water supply																												0	
Electricity supply																		1				1						2	
<b>PUBLIC HEALTH</b>																													
Air Quality (dust, odours)		1	1	1	1																							1	5
Noise			1																										1
Public cleanliness / litter		1						1																					2
Aesthetics		1						1	2																				4
<b>TOTAL IMPACT</b>	8	3	7	4	3	0	2	2	2	5	3	2	7	0	3	15	9	2	1	5	1	1	2	2	5	0	2		