

Fisheries unit

Classification on ENCORE			Value chain			
GICS Sector	GICS Sub Sector	ENCORE Process	Harvesting	Processing & Manufacturing	Distribution	Sales
Daily necessities	agricultural products	Wild catch fishing	Wild caught fishery			
Consumer Goods and Services	Food packaging and meat	Mainly processed on board (some processing is done on land)		Processing factory, packaging containers (mainly land based processing)		
Daily necessities	Food distribution industry operator	distribution		Fi	Transport	
Capital goods and services	Marine transportation	maritime shipping			Port operations (cargo handling etc.)	
Daily necessities	Food packaging and meat	Processed Food and Beverage Manufacturing				
Daily necessities	Food Retail Industry	Infrastructure ownership				Food processing companies, wholesalers and retailers
Daily necessities	Large supermarket and supermarket	Infrastructure ownership				Super markets

Maruha Nichiro (Fisheries Unit) Operation Area
 Activities assumed to have a high dependency on and impact from nature (VH of 2 or higher in the ENCORE assessment)

Fisheries Unit Process-Specific Dependency Assessment Matrix

Dependency	Procurement	Processing & Manufacturing	Distribution · Sales		
Ecosystem services	Wild marine fishery	Processed Food and Beverage Manufacturing	distribution	maritime shipping	Infrastructure ownership
Animal-derived energy	NA	NA	NA	NA	NA
Bioremediation (decomposition of pollutants, etc)	NA	L	NA	NA	VL
Buffering and attenuation of material flows	M	NA	NA	NA	NA
Disease control	NA	NA	NA	NA	NA
Fibers and other materials	NA	NA	NA	NA	NA
Filtration	NA	NA	NA	NA	NA
Protection from floods and storms	NA	NA	M	H	NA
Genetic resources	M	NA	NA	NA	NA
Atmosphere regulation	NA	NA	H	VH	NA
Groundwater	NA	VH	NA	M	NA
Soil stabilization and erosion prevention	VL	NA	M	NA	L
Maintenance of habitats and growth	VH	NA	NA	NA	NA
Pest control	L	NA	NA	NA	NA
Pollination	NA	NA	NA	NA	NA
Soil quality	VL	NA	NA	N	NA
Surface water	VH	VH	NA	M	NA
Water flow regulation	NA	NA	NA	NA	NA
Mitigation of sensory impacts	NA	L	NA	NA	NA
Air circulation	VL	NA	NA	NA	NA
Water quality	VH	L	NA	M	NA
Dilution by the atmosphere and ecosystem	VL	L	NA	NA	NA

Fisheries Unit Process-Specific Impact Assessment Matrix

Impact	Procurement	Processing & Manufacturing	Distribution · Sales		
Impact Driver	Wild catch fishery	Processed Food and Beverage Manufacturing	distribution	maritime shipping	Infrastructure ownership
Disturbance	NA	NA	H	H	NA
Freshwater ecosystem use	NA	NA	NA	NA	NA
Greenhouse gas emissions	NA	H	H	H	NA
Marine ecosystem use	VH	NA	M	H	NA
Air pollution other than GHG	NA	NA	H	NA	M
Other resource use	H	NA	NA	NA	NA
Soil pollution	NA	M	L	H	H
Soil waste	NA	H	NA	NA	M
Terrestrial ecosystem use	NA	NA	NA	NA	NA
Water pollution	M	M	L	H	H
Water use	NA	H	NA	NA	H

Aquaculture Unit

Classification on ENCORE			Value chain					
GICS Sector	GICS Sub Sector	ENCORE Process	Procurement	Production	Harvesting	Processing & Manufacturing	Distribution	Sales
Daily necessities	agricultural products	natural seawater fishery	Feed for farmed fish (marine fish)	Natural seedling				
Daily necessities	agricultural products	aquaculture		Artificial seedling (with external procurement)	Aquaculture			
Consumer Goods and Services	Food packaging and meat	Processed Food and Beverage Manufacturing				Processing factory, packaging containers		
Daily necessities	Food distribution industry operator	distribution					Transport	
Capital goods and services	Marine transportation	maritime shipping					Port operations (cargo handling etc.)	
Consumer Goods and Services	Food packaging and meat	Processed Food and Beverage Manufacturing						
Daily necessities	Food Retail Industry	Infrastructure ownership						Food processing companies, wholesalers and retailers
Daily necessities	Large supermarket and supermarket	Infrastructure ownership						Super markets

 Maruha Nichiro (Aquaculture Unit) Operation Area
 Activities assumed to have a high dependency on and impact from nature (VH of 2 or higher in the ENCORE assessment)

Aquaculture Unit Process-Specific Dependency Assessment Matrix

Dependency	Procurement			Processing & Manufacturing	Distribution	Sales
Ecosystem services	wild marine fishery	Aquaculture	Processed Food and Beverage Manufacturing	distribution	maritime shipping	Infrastructure ownership
Animal-derived energy	NA	NA	NA	NA	NA	NA
Bioremediation (decomposition of pollutants, etc)	NA	M	L	NA	NA	VL
Buffering and attenuation of material flows	M	M	NA	NA	NA	NA
Disease control	NA	M	NA	NA	NA	NA
Fibers and other materials	NA	VH	NA	NA	NA	NA
Filtration	NA	L	NA	NA	NA	NA
Protection from floods and storms	NA	H	NA	M	H	NA
Genetic resources	M	VL	NA	NA	NA	NA
Atmosphere regulation	NA	H	NA	H	VH	NA
Groundwater	NA	VL	VH	NA	M	NA
Soil stabilization and erosion prevention	VL	H	NA	M	NA	L
Maintenance of habitats and growth	VH	M	NA	NA	NA	NA
Pest control	L	M	NA	NA	NA	NA
Pollination	NA	NA	NA	NA	NA	NA
Soil quality	VL	VL	NA	NA	N	NA
Surface water	VH	M	VH	NA	M	NA
Water flow regulation	NA	H	NA	NA	NA	NA
Mitigation of sensory impacts	NA	NA	L	NA	NA	NA
Air circulation	VL	M	NA	NA	NA	NA
Water quality	VH	H	L	NA	M	NA
Dilution by the atmosphere and ecosystem	VL	M	L	NA	NA	NA

Aquaculture Unit Process-Specific Impact Assessment Matrix

Impact	Procurement			Processing & Manufacturing	Distribution	Sales
Impact Driver	wild marine fishery	Aquaculture	Processed Food and Beverage Manufacturing	distribution	maritime shipping	Infrastructure ownership
Disturbance	NA	NA	NA	H	H	NA
Freshwater ecosystem use	NA	VH	NA	NA	NA	NA
Greenhouse gas emissions	NA	NA	H	H	H	NA
Marine ecosystem use	VH	H	NA	M	H	NA
Air pollution other than GHG	NA	NA	NA	H	NA	M
Other resource use	H	NA	NA	NA	NA	NA
Soil pollution	NA	H	M	L	H	H
Soil waste	NA	NA	H	NA	NA	M
Terrestrial ecosystem use	NA	NA	NA	NA	NA	NA
Water pollution	M	H	M	A	H	H
Water use	NA	NA	H	NA	NA	H

Marine Products Trading Unit

Classification on ENCORE			Value chain			
GICS Sector	GICS Sub Sector	ENCORE Process	Procurement	Processing & Manufacturing	Distribution	Sales
Daily necessities	agricultural products	aquaculture/farmed fish	Farmed Fish			
Daily necessities	agricultural products	wild marine fisheries	Wild Fish			
Consumer Goods and Services	Food packaging and meat	Processed Food and Beverage Manufacturing		Processing factory, packaging containers (contract processing)		
Daily necessities	Food distribution industry operator	distribution			Transport	
Capital goods and services	Marine transportation	maritime shipping			Port operations (cargo handling etc.)	
Daily necessities	Food Retail Industry	Infrastructure ownership				Food processing companies, wholesalers and retailers
Daily necessities	Large supermarket and supermarket	Infrastructure ownership				Super markets

Maruha Nichiro (Marine Products Trading Unit) Operation Area
Activities assumed to have a high dependency on and impact from nature (VH of 2 or higher in the ENCORE assessment)

Marine Products Trading Unit Process-Specific Dependency Assessment Matrix

Dependency	Procurement		Processing & Manufacturing	Distribution & Sales		
	aquaculture/farmed fish	wild marine fisheries	Processed Food and Beverage Manufacturing	distribution	maritime shipping	Infrastructure ownership
Ecosystem services						
Animal-derived energy	NA	NA	NA	NA	NA	NA
Bioremediation (decomposition of pollutants , etc)	M	NA	L	NA	NA	VL
Buffering and attenuation of material flows	M	M	NA	NA	NA	NA
Disease control	M	NA	NA	NA	NA	NA
Fibers and other materials	VH	NA	NA	NA	NA	NA
Filtration	L	NA	NA	NA	NA	NA
Protection from floods and storms	H	NA	NA	M	H	NA
Genetic resources	VL	M	NA	NA	NA	NA
Atmosphere regulation	H	NA	NA	H	VH	NA
Groundwater	VL	NA	VH	NA	M	NA
Soil stabilization and erosion prevention	H	VL	NA	M	NA	L
Maintenance of habitats and growth	M	VH	NA	NA	NA	NA
Pest control	M	L	NA	NA	NA	NA
Pollination	NA	NA	NA	NA	NA	NA
Soil quality	VL	VL	NA	NA	NA	NA
Surface water	M	VH	VH	NA	M	NA
Water flow regulation	H	NA	NA	NA	NA	NA
Mitigation of sensory impacts	NA	NA	L	NA	NA	NA
Air circulation	M	VL	NA	NA	NA	NA
Water quality	H	VH	L	NA	M	NA
Dilution by the atmosphere and ecosystem	M	VL	L	NA	NA	NA

Marine Products Trading Unit Process-Specific Impact Assessment Matrix

Impact	Procurement		Processing & Manufacturing	Distribution & Sales		
	aquaculture/farmed fish	wild marine fisheries	Processed Food and Beverage Manufacturing	distribution	maritime shipping	Infrastructure ownership
Disturbance	NA	NA	NA	H	H	NA
Freshwater ecosystem use	VH	NA	NA	NA	NA	NA
Greenhouse gas emissions	NA	NA	H	H	H	NA
Marine ecosystem use	H	VH	NA	M	H	NA
Air pollution other than GHG	NA	NA	NA	H	NA	M
Other resource use	NA	H	NA	NA	NA	NA
Soil pollution	H	NA	M	L	H	H
Soil waste	NA	NA	H	NA	NA	M
Terrestrial ecosystem use	NA	NA	NA	NA	NA	NA
Water pollution	H	M	M	L	H	H
Water use	NA	NA	H	NA	NA	H

Overseas unit (currently North America Unit)

Classification on ENCORE			Value chain			
GICS Sector	GICS Sub Sector	ENCORE Process	Harvesting	Processing & Manufacturing	Distribution	Sales
Daily necessities	agricultural products	Wild marine fishing	Wild caught fishery			
Consumer Goods and Services	Food packaging and meat	Processed Food and Beverage Manufacturing		Processing factory, packaging containers (mainly land based processing)		
Daily necessities	Food distribution industry operator	distribution			Transport	
Capital goods and services	Marine transportation	maritime shipping			Port operations (cargo handling etc.)	
Daily necessities	Food Retail Industry	Infrastructure ownership				Food processing companies, wholesalers and retailers
Daily necessities	Large supermarket and supermarket	Infrastructure ownership				Super markets

Wild caught fishery Maruha Nichiro (Overseas Unit) Operation Area
Processing factory, packaging containers (mainly land based processing) Activities assumed to have a high dependency on and impact from nature (VH of 2 or higher in the ENCORE assessment)

Overseas Unit Process-Specific Dependency Assessment Matrix

Dependency	Procurement	Processing & Manufacturing	Distribution · Sales		
	Wild marine fishery	Processed Food and Beverage Manufacturing	distribution	maritime shipping	Infrastructure ownership
Animal-derived energy	NA	NA	NA	NA	NA
Bioremediation (decomposition of pollutants, etc)	NA	L	NA	NA	VL
Buffering and attenuation of material flows	M	NA	NA	NA	NA
Disease control	NA	NA	NA	NA	NA
Fibers and other materials	NA	NA	NA	NA	NA
Filtration	NA	NA	NA	NA	NA
Protection from floods and storms	NA	NA	M	H	NA
Genetic resources	M	NA	NA	NA	NA
Atmosphere regulation	NA	NA	H	VH	NA
Groundwater	NA	VH	NA	M	NA
Soil stabilization and erosion prevention	VL	NA	M	NA	L
Maintenance of habitats and growth	VH	NA	NA	NA	NA
Pest control	L	NA	NA	NA	NA
Pollination	NA	NA	NA	NA	NA
Soil quality	VL	NA	NA	N	NA
Surface water	VH	VH	NA	M	NA
Water flow regulation	NA	NA	NA	NA	NA
Mitigation of sensory impacts	NA	L	NA	NA	NA
Air circulation	VL	NA	NA	NA	NA
Water quality	VH	L	NA	M	NA
Dilution by the atmosphere and ecosystem	VL	L	NA	NA	NA

Overseas Unit Process-Specific Impact Assessment Matrix

Impact	Procurement	Processing & Manufacturing	Distribution · Sales		
Impact Driver	Wild marine fishery	Processed Food and Beverage Manufacturing	distribution	maritime shipping	Infrastructure ownership
Disturbance	NA	NA	H	H	NA
Freshwater ecosystem use	NA	NA	NA	NA	NA
Greenhouse gas emissions	NA	H	H	H	NA
Marine ecosystem use	VH	NA	M	H	NA
Air pollution other than GHG	NA	NA	H	NA	M
Other resource use	H	NA	NA	NA	NA
Soil pollution	NA	M	L	H	H
Soil waste	NA	H	NA	NA	M
Terrestrial ecosystem use	NA	NA	NA	NA	NA
Water pollution	M	M	L	H	H
Water use	NA	H	NA	NA	H

Processed Foods Business Unit

Classification on ENCORE			Value chain			
GICS Sector	GICS Sub Sector	ENCORE Process	Procurement	Processing & Manufacturing	Distribution	Sales
Daily necessities	agricultural products	aquaculture/farmed fish	farmed fish			
Daily necessities	agricultural products	wild marine fisheries	wild marine fish			
Daily necessities	agricultural products	Large-scale rainfed cropland	Grains			
Daily necessities	agricultural products	Large-scale irrigated crops	Vegetables			
Daily necessities	agricultural products	Large-scale livestock	Beef,pork,chicken and dairy products			
Daily necessities	Food packaging and meat	Processed Food and Beverage Manufacturing		Food processing		
Daily necessities	Food distribution industry operator	distribution			Transport	
Daily necessities	Food Retail Industry	Infrastructure ownership				Company-owned sales facility
Daily necessities	Large supermarket and supermarket	Infrastructure ownership				Super Markets

Maruha Nichiro (Foodstuff Distribution Business Unit) Operation Area
 Activities assumed to have a high dependency on and impact from nature (VH of 2 or higher in the ENCORE assessment)

Processed Foods Business Unit Process-Specific Dependency Assessment Matrix

Dependency	Procurement						Processing & Manufacturing	Distribution	Sales
Ecosystem services	aquaculture/ farmed fish	wild marine fisheries	fresh water fisheries	Large-scale rainfed cropland	Large-scale irrigated crops	Large-scale livestock	Processed Food and Beverage Manufacturing	distribution	Infrastructure ownership
Animal-derived energy	NA	NA	NA	VL	VL	NA	NA	NA	NA
Bioremediation (decomposition of pollutants , etc)	M	NA	NA	M	M	M	L	NA	VL
Buffering and attenuation of material flows	M	M	VH	H	H	L	NA	NA	NA
Disease control	M	NA	L	H	H	M	NA	NA	NA
Fibers and other materials	VH	NA	NA	M	M	VH	NA	NA	NA
Filtration	L	NA	NA	M	M	M	L	NA	NA
Protection from floods and storms	H	NA	NA	VH	VH	M	M	M	NA
Genetic resources	VL	M	M	M	M	VL	NA	NA	NA
Atmosphere regulation	H	NA	VH	H	H	M	NA	H	NA
Groundwater	VL	NA	NA	NA	VH	VH	VH	NA	NA
Soil stabilization and erosion prevention	H	VL	VL	VH	VH	L	L	M	L
Maintenance of habitats and growth	M	VH	VH	NA	NA	NA	NA	NA	NA
Pest control	M	L	L	H	H	L	NA	NA	NA
Pollination	NA	NA	NA	H	H	VL	NA	NA	NA
Soil quality	VL	VL	M	H	H	H	VL	NA	NA
Surface water	M	VH	VH	M	H	VH	VH	NA	NA
Water flow regulation	H	NA	NA	H	H	M	M	NA	NA
Mitigation of sensory impacts	NA	NA	NA	NA	NA	L	NA	NA	NA
Air circulation	M	VL	L	L	L	VL	NA	NA	NA
Water quality	H	VH	VH	VL	H	M	M	NA	NA
Dilution by the atmosphere and ecosystem	M	VL	VL	M	M	L	L	NA	NA

Processed Foods Business Unit Process-Specific Impact Assessment Matrix

Impact	Procurement						Processing & Manufacturing	Distribution	Sales
Impact Driver	aquaculture/ farmed fish	wild marine fisheries	fresh water fisheries	Large-scale rainfed cropland	Large-scale irrigated crops	Large-scale livestock	Processed Food and Beverage Manufacturing	distribution	Infrastructure ownership
Disturbance	NA	NA	NA	NA	NA	NA	NA	H	NA
Freshwater ecosystem use	VH	NA	VH	NA	VH	NA	NA	NA	NA
Greenhouse gas emissions	NA	NA	NA	NA	NA	H	H	H	NA
Marine ecosystem use	H	VH	NA	NA	NA	NA	NA	M	NA
Air pollution other than GHG	NA	NA	NA	NA	NA	NA	NA	H	M
Other resource use	NA	H	H	L	NA	NA	NA	NA	NA
Soil pollution	H	NA	NA	H	H	M	M	L	H
Soil waste	NA	NA	NA	NA	NA	NA	H	NA	M
Terrestrial ecosystem use	NA	NA	NA	VH	VH	VH	NA	NA	NA
Water pollution	H	M	H	H	H	M	M	L	H
Water use	NA	NA	NA	NA	VH	VH	H	NA	H

Fine Chemicals Unit

Classification on ENCORE			Value chain			
GICS Sector	GICS Sub Sector	ENCORE Process	Procurement	Processing & Manufacturing	Distribution	Sales
Daily necessities	agricultural products	wild marine fish	Wild Marine Fish			
Health Care	Life Science Manufacturing	Life Sciences, Pharmaceutical and Bio-manufacturing		Production of functional materials from fish and food residues		
Daily necessities	Food Retail Industry	Distribution			Transportation	
Daily necessities	Large supermarket and supermarket	Infrastructure ownership				Retail Store (Online)

Maruha Nichiro (Fine Chemicals Unit) Operation Area
 Activities assumed to have a high dependency on and impact from nature (VH of 2 or higher in the ENCORE assessment)

Fine Chemicals Unit Process-Specific Dependency Assessment Matrix

Dependency	Procurement	Processing & Manufacturing	Distribution & Sales
Ecosystem services	Marine Fisheries	Pharmaceutical and Bio-manufacturing	Distribution
Animal-derived energy	NA	NA	NA
Bioremediation (decomposition of pollutants, etc)	NA	VL	NA
Buffering and attenuation of material flows	M	NA	NA
Disease control	NA	NA	NA
Fibers and other materials	NA	NA	NA
Filtration	NA	VL	NA
Protection from floods and storms	NA	NA	M
Genetic resources	M	M	NA
Atmosphere regulation	NA	NA	H
Groundwater	NA	M	NA
Soil stabilization and erosion prevention	VL	L	M
Maintenance of habitats and growth	VH	NA	NA
Pest control	L	NA	NA
Pollination	NA	NA	NA
Soil quality	VL	NA	NA
Surface water	VH	H	NA
Water flow regulation	NA	M	NA
Mitigation of sensory impacts	NA	NA	NA
Air circulation	VL	NA	NA
Water quality	VH	L	NA
Dilution by the atmosphere and ecosystem	VL	NA	NA

Fine Chemicals Unit Process-Specific Impact Assessment Matrix

Impact	Procurement	Processing & Manufacturing	Distribution & Sales
Impact Driver	Marine Fisheries	Life Sciences, Pharmaceutical and Bio-manufacturing	Distribution
Disturbance	NA	NA	H
Freshwater ecosystem use	NA	NA	NA
Greenhouse gas emissions	NA	NA	H
Marine ecosystem use	VH	NA	M
Air pollution other than GHG	NA	M	H
Other resource use	H	NA	NA
Soil pollution	NA	H	L
Soil waste	NA	H	NA
Terrestrial ecosystem use	NA	NA	NA
Water pollution	M	H	L
Water use	NA	H	NA

Foodstuff Distribution Business Unit

Classification on ENCORE			Value chain			
GICS Sector	GICS Sub Sector	ENCORE Process	Procurement	Processing & Manufacturing	Distribution	Sales
Daily necessities	agricultural products	aquaculture/farmed fish	farmed fish			
Daily necessities	agricultural products	wild marine fisheries	wild marine fish			
Daily necessities	agricultural products	Large-scale livestock (beef and dairy products)	Vegetables			
Daily necessities	agricultural products	Large-scale irrigated crops	Beef,pork,chicken and dairy products			
Daily necessities	Food packaging and meat	Processed Food and Beverage Manufacturing		Food processing		
Daily necessities	Food distribution industry operator	distribution			Transport	
-	-	-				Mass retailers, schools, co-ops, convenience stores, nursing care facilities, restaurants etc.(some are directly for consumers)

- Maruha Nichiro (Foodstuff Distribution Business Unit) Operation Area
- Activities assumed to have a high dependency on and impact from nature (VH of 2 or higher in the ENCORE assessment)

Foodstuff Distribution Business Unit Process-Specific Dependency Assessment Matrix

Dependency	Procurement				Processing & Manufacturing	Distribution & Sales
Ecosystem services	aquaculture/farmed fish	Marine Fisheries	Large-scale irrigated crops	Large-scale livestock (beef and dairy products)	Processed Food and Beverage Manufacturing	Distribution
Animal-derived energy	NA	NA	VL	NA	NA	NA
Bioremediation (decomposition of pollutants , etc)	M	NA	M	M	L	NA
Buffering and attenuation of material flows	M	M	H	L	NA	NA
Disease control	M	NA	H	M	NA	NA
Fibers and other materials	VH	NA	M	VH	NA	NA
Filtration	L	NA	M	M	L	NA
Protection from floods and storms	H	NA	VH	M	M	M
Genetic resources	VL	M	M	VL	NA	NA
Atmosphere regulation	H	NA	H	M	NA	H
Groundwater	M	NA	VH	VH	VH	M
Soil stabilization and erosion prevention	H	VL	VH	L	L	NA
Maintenance of habitats and growth	M	VH	NA	NA	NA	NA
Pest control	M	L	H	L	NA	NA
Pollination	NA	NA	H	VL	NA	NA
Soil quality	VL	VL	H	H	VL	NA
Surface water	M	VH	H	VH	VH	NA
Water flow regulation	H	NA	H	M	M	NA
Mitigation of sensory impacts	NA	NA	NA	L	NA	NA
Air circulation	M	VL	L	VL	NA	NA
Water quality	H	VH	M	M	M	NA
Dilution by the atmosphere and ecosystem	M	VL	H	L	L	NA

Foodstuff Distribution Business Unit Process-Specific Impact Assessment Matrix

Impact	Procurement	Processing & Manufacturing	Distribution & Sales
Impact Driver	Marine Fisheries	Life Sciences, Pharmaceutical and Bio-manufacturing	Distribution
Disturbance	NA	NA	H
Freshwater ecosystem use	NA	NA	NA
Greenhouse gas emissions	NA	NA	H
Marine ecosystem use	VH	NA	M
Air pollution other than GHG	NA	M	H
Other resource use	H	NA	NA
Soil pollution	NA	H	L
Soil waste	NA	H	NA
Terrestrial ecosystem use	NA	NA	NA
Water pollution	M	H	L
Water use	NA	H	NA

Meat Products unit

Classification on ENCORE			Value chain				
GICS Sector	GICS Sub Sector	ENCORE Process	Harvesting	Transportation	Processing & Manufacturing	Storage and Distribution	Sales
Daily necessities	agricultural products	Small-scale livestock	Beef/Pork/Chicken				
Daily necessities	agricultural products	Large-scale livestock					
Capital goods and services	transportation industry	maritime shipping		Maritime transportation (Import)			
Daily necessities	Food packaging and meat	Processed Food and Beverage Manufacturing			Meat and processed meat		
Daily necessities	Food Retail Industry	Distribution				Transport	
-	-	-					External Companies (Ham, Sausage, Meat Wholesalers)

Maruha Nichiro (Meat Products Unit) Operation Area

Activities assumed to have a high dependency on and impact from nature (VH of 2 or higher in the ENCORE assessment)

Meat Products Unit Process-Specific Dependency Assessment Matrix

Dependency	Breeding and Production		Distribution	Processing & Manufacturing	Distribution
Ecosystem services	Small-scale livestock	Large-scale livestock	maritime shipping	Processed Food and Beverage Manufacturing	Distribution
Animal-derived energy	NA	NA	NA	NA	NA
Bioremediation (decomposition of pollutants, etc)	M	M	NA	L	NA
Buffering and attenuation of material flows	L	L	NA	NA	NA
Disease control	H	M	NA	NA	NA
Fibers and other materials	VH	VH	NA	NA	NA
Filtration	M	M	NA	L	NA
Protection from floods and storms	VH	M	H	M	M
Genetic resources	VL	VL	NA	NA	NA
Atmosphere regulation	H	M	VH	NA	H
Groundwater	VH	VH	M	VH	NA
Soil stabilization and erosion prevention	L	L	NA	L	M
Maintenance of habitats and growth	NA	NA	NA	NA	NA
Pest control	M	L	NA	NA	NA
Pollination	VL	VL	NA	NA	NA
Soil quality	H	H	NA	VL	NA
Surface water	VH	VH	M	VH	NA
Water flow regulation	H	M	NA	M	NA
Mitigation of sensory impacts	L	L	NA	NA	NA
Air circulation	VL	VL	NA	NA	NA
Water quality	VH	VH	M	M	NA
Dilution by the atmosphere and ecosystem	L	L	NA	L	NA

Meat Products Unit Process-Specific Impact Assessment Matrix

Impact	Breeding and Production		Distribution	Processing & Manufacturing	Distribution
Impact Driver	Small-scale livestock	Large-scale livestock	maritime shipping	Processed Food and Beverage Manufacturing	Distribution
Disturbance	NA	NA	H	NA	H
Freshwater ecosystem use	NA	NA	NA	NA	NA
Greenhouse gas emissions	H	H	H	H	H
Marine ecosystem use	NA	NA	H	NA	M
Air pollution other than GHG	NA	NA	NA	NA	H
Other resource use	NA	NA	NA	NA	NA
Soil pollution	M	M	H	M	L
Soil waste	NA	NA	NA	H	NA
Terrestrial ecosystem use	VH	VH	NA	NA	NA
Water pollution	M	M	H	M	L
Water use	H	VH	NA	H	NA

Logistics Unit

Classification on ENCORE			Value chain		
GICS Sector	GICS Sub Sector	ENCORE Process	Collection of Goods	Storage	Transport
Daily necessities	Food Distributor	Distribution	Transport goods to the warehouse	Storing of refrigerated and frozen Foods (including customs clearance)	Truck / Fuel
Daily necessities	Food Retail Industry	Infrastructure ownership			
Daily necessities	Large supermarket and supermarket	Infrastructure ownership			

Maruha Nichiro (Logistics Unit) Operation Area
 Activities assumed to have a high dependency on and impact from nature (VH of 2 or higher in the ENCORE assessment)

Logistics Unit Process-Specific Dependency Assessment Matrix

Dependency	Distribution & Sales	
Ecosystem services	Distribution	Infrastructure ownership
Animal-derived energy	NA	NA
Bioremediation (decomposition of pollutants , etc)	NA	VL
Buffering and attenuation of material flows	NA	NA
Disease control	NA	NA
Fibers and other materials	NA	NA
Filtration	NA	NA
Protection from floods and storms	M	NA
Genetic resources	NA	NA
Atmosphere regulation	H	NA
Groundwater	NA	NA
Soil stabilization and erosion prevention	M	L
Maintenance of habitats and growth	NA	NA
Pest control	NA	NA
Pollination	NA	NA
Soil quality	NA	NA
Surface water	NA	NA
Water flow regulation	NA	NA
Mitigation of sensory impacts	NA	NA
Air circulation	NA	NA
Water quality	NA	NA
Dilution byt the atomosphere and ecosystem	NA	NA

Logistics Unit Process-Specific Impact Assessment Matrix

Impact	Distribution,Sales and Maintenance	
Impact Driver	Distribution	Infrastructure ownership
Disturbance	H	NA
Freshwater ecosystem use	NA	NA
Greenhouse gas emissions	H	NA
Marine ecosyste use	M	NA
Air pollution other then GHG	H	M
Other resource use	NA	NA
Soil pollution	L	H
Soil waste	NA	M
Terrestrial ecosystem use	NA	NA
Water pollution	L	H
Water use	NA	H