

Executive summary

Kimberley Technology Solutions Pty Ltd is proposing to construct and operate the Cockatoo Island Multi-User Supply Base (the project) from Cockatoo Island, Western Australia. The project will involve the upgrade and development of infrastructure on Cockatoo Island, including an airfield, a wharf and an aftermarket subsea workshop as well as other related support infrastructure.

To support State and Commonwealth approval processes, a study was undertaken to describe the benthic communities and habitats (BCH) and marine fauna in the vicinity of the proposed wharf. The focus of the field survey was to characterise the BCH in the bay proposed for wharf development (Bay 1) and the two adjacent bays to the southeast (Bay 2 and Bay 3).

The survey identified that the estimated percentage of bare substrate in Bay 1 (67.3%) is substantially higher than in Bay 2 (47.2%) and Bay 3 (37.6%), likely due to Bay 1 having been impacted by nearby mining-related activities to the northwest.

Soft coral and hydroids are relatively minor contributors to the benthic community assemblage, although they represent a greater proportion of Bay 1 than the other two bays.

Habitat density observations (e.g. sparse, dense) for hard coral and macroalgae were used to estimate total coverage areas within each bay and over the entire survey area, which demonstrated that:

- The estimated hard coral area in Bay 1 of 0.2 ha is approximately 3% of this bay's surveyed area. The total estimated hard coral area of the three bays is 4.92 ha. The hard coral area in Bay 1 comprises only 4% of the total hard coral area across the three bays, presumably because of its proximity to past mining-related activities (and associated impacts). Construction and operation of the wharf facility will pose elevated environmental risks and impacts to only ~4% of the existing hard coral cover across the three bays (i.e. those in Bay 1); and
- The estimated macroalgal area in Bay 1 is 0.19 ha, representing 3% of this bay's surveyed area. This is a similar proportion to Bay 2 (5%) and Bay 3 (6%). The estimated macroalgae area in Bay 1 comprises 13% of the total macroalgae area across the three bays. A relatively small proportion (13%) of the total macroalgae area across the three bays will be at risk of impact by construction and operational activities of the wharf facility.

On the basis of observed benthic communities on the existing ship loader piles, it is anticipated that a similar community assemblage will colonise the proposed wharf infrastructure. Further, colonisation of the wharf structure by hard corals may occur, particularly along the eastern portion of Bay 1, where some hard corals currently occur.

There is the potential for threatened and listed marine fauna to occur near to the proposed wharf development that may be impacted during construction and operation of the facility. Preparation of construction and operation management plans with appropriate preventative controls and mitigation measures can reduce potential impacts and risks to marine fauna to acceptable levels.

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1. Introduction

1.1 Background

Kimberley Technology Solutions Pty Ltd is proposing to construct and operate the Cockatoo Island Multi-User Supply Base (the project) from Cockatoo Island, Western Australia. The project will involve the upgrade and development of infrastructure on Cockatoo Island, including an airfield, a wharf and an aftermarket subsea workshop as well as other related support infrastructure.

1.2 Study Objective and Scope

To support State and Commonwealth approval processes a study was undertaken to describe the benthic communities and habitats (BCH) and marine fauna in the vicinity of the proposed wharf through a:

- · Desktop assessment of marine fauna;
- Desktop assessment of the BCH; and
- BCH field survey.

1.3 Limitations

This report has been prepared by GHD for Kimberley Technology Solutions Pty Ltd and may only be used and relied on by Kimberley Technology Solutions Pty Ltd for the purpose agreed between GHD and the Kimberley Technology Solutions Pty Ltd as set out in section 1 of this report. GHD otherwise disclaims responsibility to any person other than Kimberley Technology Solutions Pty Ltd arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

The opinions, conclusions and any recommendations in this report are based on information obtained from, and surveys undertaken at or in connection with, specific sample points. Site conditions at other parts of the site may be different from the site conditions found at the specific sample points.

2. Methodology

2.1 Desktop Assessment

A desktop assessment of the marine environment was carried out prior to undertaking a marine survey. Existing marine survey reports and aerial photography of Cockatoo Island were reviewed to optimise planning and outcomes from the field study. The review included past marine surveys of the proximal area. Conservation significant marine species were identified that are listed under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) and the *Wildlife Conservation Act 1950*, and from the Department of Parks and Wildlife's NatureMap. Previous documented site visits and surveys, past approvals documents and other literature sources were also used.

2.2 Field Survey

A three day marine environment survey during 11-13 November 2016 was undertaken in the locale of the proposed wharf development. A digital underwater drop camera video system and a GPS-enabled tablet application were used.

2.2.1 Site Selection

Aerial imagery was used to select the survey area and to understand the level of similarity between the bay with the proposed wharf footprint and other proximal bays of Cockatoo Island. Aerial imagery could not be used to delineate habitat types because of poor water clarity.

2.2.2 Data Collection

During the survey the following data was collected at each site:

- Time and date of observation;
- Visual recording;
- Coordinates of observation;
- Dominant substrate (e.g. sand, silt etc.); and
- Benthic community type and coverage.

2.2.3 Data Analysis

Marine substrate and benthic community data were spatially mapped onto aerial imagery and recently acquired bathymetry. Contours from the marine habitat data were derived between sites through a natural neighbour interpolation. The coverage of benthic communities for the interpolation was classed as per Table 2-1 with the mid-value of the coverage intervals allocated to each site as per Table 2-1.

Table 2-1 Benthic coverage percentage bins

Coverage (Qualitative description)	Coverage Range (%)	Assigned Value (%)
None	0	0
Very Sparse	0 – 5	2.5
Sparse	5 – 25	15
Moderate	25 – 50	37.5
Dense	50 – 100	75

3. Results

3.1 Desktop Review

3.1.1 Overview of Cockatoo Island

Cockatoo Island is located approximately 7 km off the Western Australian coast within the Buccaneer Archipelago, approximately 130 km north-west of Derby (Figure 3-1). As described in MScience (2011), the Cockatoo Island climate is a dry sub-tropical environment, in an area of low wave energy with a large tidal range of 10 m. The large tidal range, steep cliffs and beach profile, and high ultraviolet radiation are the dominant factors that drive habitat distributions.

3.1.2 Marine Habitats

Bay 1, the location of the proposed wharf development (Bay 1 in Figure 3-1), has not been previously surveyed. This review is based on marine environment surveys primarily undertaken of the nearshore regions of Cockatoo Island to the northwest of Bay 1.

As described by the EPA (2016), benthic communities and habitats (BCH) are defined as "Functional ecological communities that inhabit the seabed and the areas of seabed that support these communities (e.g. high relief reef, platform reef, sand, silt and the depth they occur at). The communities may include light dependent taxa (e.g. algae, seagrass, corals, some sponges, mangroves) or animals that obtain their energy by consuming live or dead organisms (e.g. ascidians, sponges, soft corals)".

Marine Substrates

In a 2013 survey (MScience, 2013) around the existing ship loader (approximately 400 m to the northwest of the proposed wharf development), the marine environment was characterised as a shallow nearshore flat of 10 to 30 m width that drops off at the seaward edge to 10-15 m below lowest astronomical tide (LAT). Uncolonised rocky substrates were common at the edges of the headland. Sand with some patches of mud was the dominant habitat. Areas of gravel and coral rubble were also noted on the outer flat and the slope.

Hard Coral

In a 2007 survey (MScience, 2007), two types of hard coral communities were noted; coral habitats of crests and upper reef slopes, and coral on reef flats (Figure 3-2).

Hard coral colonised some areas of the coral rubble. Coral genera typically included *Acropora* and *Montipora* across a depth range of 1-5 m below LAT (MScience, 2013).

Macroalgae

MScience (2007) found substantial areas of moderately abundant macroalgae including *Sargassum* interspersed with *Padina*, and other brown, red and green algae around the perimeter of Cockatoo Island (Figure 3-2).

Non Benthic Primary Producer Habitats

Filter feeding invertebrates such as gorgonian soft coral sea whips, sponges and crinoids colonise some areas of the coral rubble (MScience, 2013).



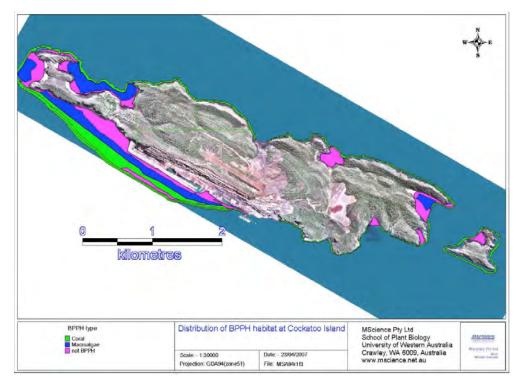


Figure 3-2 BPPH mapping of Cockatoo Island in 2007 (MScience, 2007)

3.1.3 Marine Water Quality

The large tidal regime has a large effect on the turbidity of in the region. Currents entrain and transport large amounts of suspended sediment (MScience, 2011) that in turn generates considerable turbidity (Wilson, 2014).

3.1.4 Marine Fauna

A search was undertaken with the online Protected Matters Search Tool (PMST), DPaW NatureMap records and Threatened and Priority Fauna Rankings for the Kimberley for marine waters within approximately 5 km of the proposed wharf development. This search area was used to identify the potential presence of any conservation significant marine fauna species proclaimed as Matters of National Environmental Significance (MNES) under the EPBC Act (the Protected Matters Report is provided in Appendix A) or as Specially Protected Fauna under the *Wildlife Conservation Act 1950*.

Marine Mammals

Nine species of protected or listed marine mammals may occur within or adjacent to the search area, of which one species of marine mammal is listed as Threatened (Table 3-1).

Humpback Whale

Humpback Whales occur throughout Australian waters with their distribution influenced by their migratory pathways and aggregation areas for resting, breeding and calving. Humpbacks arrive in the coastal waters of the Kimberley after summer to breed and calve before returning to the Antarctic after the winter season has passed. As shown in Figure 3-3, Humpback Whales are likely be in deeper waters of the Project area.

Table 3-1 Conservation significant marine mammals

		E	PBC listing		DPaW		
Common name	Scientific name	Listed threatened	Listed migratory	Other matters	Schedule /Ranking	Presence	
		Whales					
Humpback Whale	Megaptera novaeangliae	VU	✓	✓	CD (D1)	В	
Bryde's Whale	Balaenoptera edeni		✓	✓		M	
		Dolphins					
Common Dolphin, Short-beaked Common Dolphin	Delphinus delphis			✓		M	
Irrawaddy Dolphin/ Australian Snubfin	Orcaella brevirostris		✓	✓	P4	M	
Indo-Pacific Humpback Dolphin	Sousa chinensis		✓	✓		В	
Spotted Dolphin, Pantropical Spotted Dolphin	Stenella attenuata			✓		M	
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose Dolphin (Arafura/ Timor Sea populations)	Tursiops aduncus		√	✓		L	
Bottlenose Dolphin	Tursiops truncates s. str.			✓		M	
		Sirrenians					
Dugong	Dugong dugon		✓	✓	SP	L	

Note: 'B': Breeding known to occur within area.

'L': Species or species habitat likely to occur within area.

'M': Species or species habitat may occur within area.

'CD': Conservation dependant.

'VU': Vulnerable.

'SP': Specially protected.

P1-P4: Priority 1 – 4.

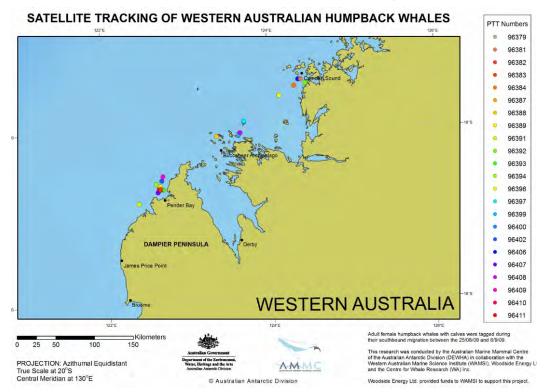


Figure 3-3 Satellite tracking of Humpback Whales in 2009 (Double *et al.*, 2010)

Bryde's Whale

Byrde's Whales are the second smallest of the baleen whales. They inhabit tropical and warm temperate waters and generally travel alone or in pairs. This species appears to be limited to the 200 m depth contour, moving along the coast in response to the availability of suitable prey, while the offshore form is found in deeper waters (500 to 1,000 m) (Best 1977). Because of its small population, lack of sightings and preference for deeper water, it is unlikely to be encountered in the Project area.

Dolphins

Six species of dolphin listed under the EPBC Act were identified as potentially occurring in the Project area, with two listed as Migratory and four as 'other matters'.

Common Dolphins are recorded in all Australian waters and are not thought to be migratory. They are associated with high topographical relief of the ocean floor, drop-offs and upwelling areas; however, there are no known key areas for this species in Australia.

Redescription and genetic research has shown the Irrawaddy Dolphin to be renamed the Australian Snubfin Dolphin. This dolphin is primarily found in nearshore habitats, but has been recorded up to 23 km offshore. Beagle Bay and Pender Bay are important areas for the Australian Snubfin Dolphin (Department of the Environment and Energy, 2016a).

The Indo-Pacific Humpback Dolphin is primarily found in nearshore habitats, such as those associated with the Buccaneer Archipelago (Department of the Environment and Energy, 2016a). Indo-Pacific Humpback Dolphins typically occur in open waters around coasts and islands, generally in less than 20 m water depth (Parra *et al.*, 2002).

Little is known about the distribution of the Spotted Dolphin in the Kimberley region, although they have been recorded at the shelf edge and shelf slope area of the Browse Basin in large, high energy, mixed schools in association with tuna, seabirds and other pelagic cetaceans. Small groups of *Stenella* species have also been observed resting in nearshore areas of coast on the lee side of bays (Department of Sustainability, Environment, Water, Population and Communities (DSEWPaC), 2012a).

The Bottlenose Dolphin is a cosmopolitan species found in all Australian waters in coastal, estuarine and pelagic settings. Bottlenose Dolphins have been observed during surveys by Jenner and Jenner (2009) between Cape Leveque (north of Broome) and Scott Reef in June, July, October and November 2008. The Spotted Bottlenose Dolphin is widely distributed in Indo-Pacific coastal waters, however there is limited information on the distribution and population of the Arafura/Timor sea population.

Due to shallow water preferences, the Irrawaddy/Australian Snubfin, the Indo-Pacific Humpback and the Bottlenose Dolphins are likely to be present all year round in the Project area. Due to its depth preferences, the Spotted Dolphin is unlikely to occur in the Project area.

Dugong

North-western Australia is thought to have one of the largest populations of Dugongs in the world and are largely sighted feeding in wide and shallow seagrass beds but also in estuarine streams (DSEWPaC, 2012b). Regional sightings pooled from 1996 to 2008 show some sightings around Cockatoo and Irvine Islands but notably less than that around the Dampier Peninsula, Derby and around the Walcott Inlet (Holley and Prince, 2011). Due to the Dugong's presence being largely correlated with seagrass beds, it is unlikely to be found within the Project area but is likely to be found in the wider coastal area.

Fish

Thirty-three species of protected or listed fish may occur within or adjacent to the Project area, of which five species are listed as Threatened (Table 3-2).

Table 3-2 Conservation significant fish

		EP	BC Listing		DPaW	
Common Name	Scientific Name	Listed Threatened	Listed migratory	Other matters	Schedule /Ranking	Presence
Whale Shark	Rhincodon typus	VU	✓		SP	M
Great White Shark	Carcharodon carcharias		✓		VU	M
Green Sawfish	Pristis zijsron	VU	✓		VU	K
Largetooth Sawfish	Pristis pristis	VU	✓		P1	K
Dwarf Sawfish	Pristis clavata	VU	✓		P3	K
Reef Manta Ray	Manta alfredi		✓			K
Giant Manta Ray	Manta birostris		✓			M
Killer Whale, Orca	Orcinus orca		✓			M
Northern River Shark, New Guinea River Shark	Glyphis garricki	EN			P1	М
25 other species of pipe dragon	efish and sea			✓		M

Note: 'K': Species or species habitat known to occur within area.

'M': Species or species habitat may occur within area.

CD': Conservation dependant.

'VU': Vulnerable.

'SP': Specially protected. P1-P4: Priority 1 – 4.

Whale Shark

Whale Sharks have a broad distribution in tropical and warm temperate seas, and feed on phytoplankton, macroalgae, zooplankton, krill and small nektonic life, such as small squid or vertebrates. The Whale Shark undertakes a well-known annual migration between March and June to aggregate in the Ningaloo Marine Park. This seasonal aggregation is believed to be linked to localised seasonal peaks of coral spawning that occurs around March/April each year (Woodside, 2011). Following this period, observers have recorded Whale Sharks migrating northwest to the Indian Ocean, or directly north to Sumatra and Java, or northeast passing within the region of Scott Reef and the Browse Basin and travelling along the 200 m contour (Figure 3-4), (Woodside, 2011). Due to the preference for deeper waters, the Whale Shark is unlikely to be found in the Project area.

Great White Shark

In Australian waters, Great White Sharks are widely but not evenly distributed, and sightings are considered uncommon to rare compared to most other large sharks (CITES, 2004). Great White Sharks can be found in areas close to inshore around rocky reefs, surf beaches and shallow coastal bays, and also in outer continental shelf and slope areas (Pogonoski *et al.*, 2002). It is unlikely that they would be present in the Project area.

Largetooth Sawfish

This species has been recorded in riverine and marine environments across northern Australia and is known to have occurred within most of the subtropical areas between Cape Keraudren in Western Australia and Princess Charlotte Bay in Queensland. It is known to occur up to 100 km offshore. The generally accepted model of movement and migration of Largetooth Sawfish in Australian waters is that young are born at the mouths of rivers and in estuaries and then migrate up river where they spend the first several years of life (Thorburn *et al.* 2004). As they reach maturity, they move out of the rivers and into the marine environment. Given this species known distribution, it is possible that they can occur in the Project area.

Green Sawfish

The Department of the Environment (2015) reports that Green Sawfish are distributed from the Whitsundays to Shark Bay. Individuals have been recorded from inshore coastal environments and estuaries to offshore deep waters (Stevens *et al.*, 2005). Given this species known distribution, it is possible that they can occur in the Project area.

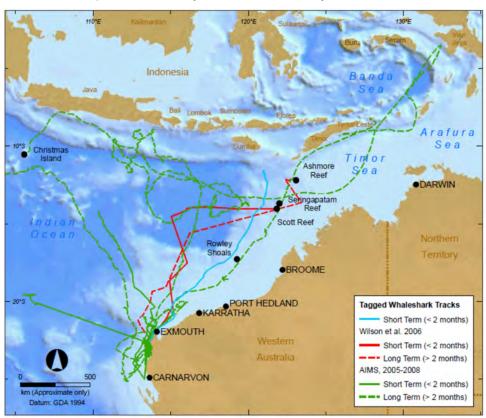


Figure 3-4 Satellite tracking of Whale Sharks from 2002 to 2008 (Woodside, 2011)

Dwarf Sawfish

The distribution of Dwarf Sawfish is considered to be restricted to northern Australia, ranging from northern Queensland to the Pilbara coastline. Sawfish generally inhabit shallow coastal waters and estuaries, which are utilised as nurseries for juveniles. Surveys have found most captures of Dwarf Sawfish occur over soft sediment environments (Department of the Environment, 2015). Given this species known distribution, it is possible that they could occur in the Project area.

Manta Rays

Manta Rays commonly occur throughout the majority of Australian coastlines. The Reef and Giant Manta Ray may be found in the Project area.

Killer Whales

Killer Whales are thought to be the most cosmopolitan of all cetaceans in Australasian waters and have been sighted along the Kimberley coast (Kimberley Society, 2010). Although not common, the Killer Whale may occur in the Project area.

Northern River Shark

The Department of the Environment (2015) reports that the Northern River Sharks utilise rivers, tidal sections of large tropical estuarine systems and macrotidal embayments, as well as inshore and offshore marine habitats. Given this species known distribution, it is possible that they could occur in the Project area.

Seahorses, Seadragons and Pipefish

Twenty-five species of Syngnathids have been identified that could occur in the Project area. Although uncommon, these species are expected to occur in shallow coastal areas. However as preferred habitat (seagrass) is likely to be sparse in the area, the occurrence of Syngnathids in the Project area is unlikely.

Marine Reptiles

Sixteen species of protected or listed marine reptiles potentially occur in the Project area, of which five species of marine reptiles are listed as Threatened (Table 3-3). Conservation significant marine reptiles are described below.

Table 3-3 Conservation significant marine reptiles

		Ef	PBC Listing		DPaW	
Common Name	Scientific Name	Listed Threatened	Listed Migratory	Other matters	Schedule/ Ranking	Presence
		Turtle	S			
Loggerhead Turtle	Caretta caretta	✓	✓	✓	EN (D3)	K
Green Turtle	Chelonia mydas	✓	✓	✓	VU (D3)	С
Leatherback Turtle	Dermochelys coriacea	✓	✓	✓	VU (D3)	L
Flatback Turtle	Natator depressus	✓	✓	✓	VU (D3)	С
Hawksbill Turtle	Eretmochelys imbricata	✓	✓	✓	VU (D3)	L
		Crocodi	les			
Saltwater Crocodile	Crocodylus porosus		✓	✓	SP (D3)	L
Freshwater Crocodile	Crocodylus johnstoni			✓	SP (S3)	М
Sea snakes						
9 species of sea s	nake			✓		M

Note: 'C': Congregation or aggregation known to occur within area.

'K': Species or species habitat known to occur within area.

'L': Species or species habitat likely to occur within area.

'M': Species or species habitat may occur within area.

'EN': Endangered. 'VU': Vulnerable.

'SP': Specially protected.

Loggerhead Turtle

Loggerhead Turtles are globally distributed, occurring within coral, rocky reef, seagrass and muddy bay habitats throughout eastern, northern and western Australia (Department of the Environment and Energy, 2016b). Nesting is concentrated in southern Queensland and from Shark Bay to the North West Cape (Ningaloo) in WA, although foraging areas are more widely distributed. There has also been one reported nesting at Ashmore Reef (Guinea, 1995). Given the absence of important areas for feeding and nesting, it is unlikely that Loggerhead Turtles will be present in the Project area.

Green Turtle

Green Turtles are the most widespread and abundant turtle species in Western Australia waters, nesting from the Ningaloo coast to the Kimberley islands (Prince, 1994). There are two known migration pathways for Green Turtles from Scott Reef and Browse Island to the Australian mainland coast – either travelling north-east to the Bonaparte Archipelago and then following the coast to the Northern Territory; or travelling south to Cape Leveque and along the coast to the Pilbara (Figure 3-5) (Guinea, 2010). Satellite tracking has shown that Green Turtles nesting on Browse Island and Sandy Island (Scott Reef) feed between 200 km and 1000 km from their nesting beaches (Pendoley, 2005). In surveys by RPS (2010) from 2009-2010 in the Dampier Peninsula and Lacepede Islands, the majority of Green Turtles migrated north-east along the Kimberley coast in the post-nesting migration period (from approximately April). Given the known migration route and use of shallow benthic habitats for foraging, it is likely that Green Turtles could occur in the Project area.

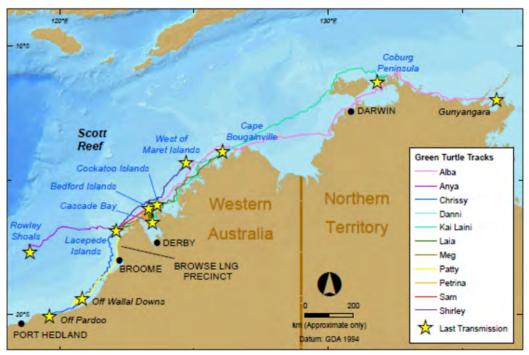


Figure 3-5 Post-nesting migration pathways of Green Turtles tagged at Lacepede Islands (2009-2010) (Woodside, 2011)

Leatherback Turtle

Leatherback Turtles are pelagic feeders, found in tropical, subtropical and temperate waters throughout the world. This species regularly forages over Australian continental shelf waters and has been reported in south-western WA waters (Department of the Environment and Energy, 2016b). There are no major nesting areas recorded in Australia, although there are scattered records in the NT, Queensland and NSW (Department of the Environment and Energy, 2016b). Given the absence of important areas for feeding and nesting, it is highly unlikely that Leatherback Turtles occur in the Project area.

Flatback Turtle

The Flatback Turtle is one of the two turtle species without a global distribution, found only in tropical waters of northern Australia, Papua New Guinea and Irian Jaya, with nesting confined to Australia (Limpus, 2007). The Kimberley region is an important nesting area, with significant nesting occurring on the Lacepede Islands. Studies of Flatback Turtles during the 2009-2010 nesting season on the Lacepede Islands tracked several individuals via satellite tags during the inter-nesting and post-nesting periods (RPS, 2010). Individuals were found to remain within 50 km of the islands during the inter-nesting period. During post-nesting migration, turtles stayed in shallow depths, travelling from 17 km to up to 1,005 km, mainly staying within WA waters, such as Adele Island, Lacepede Island and the Maret Islands (north-east of Derby) (Figure 3-6). Migration pathways of Flatback Turtles nesting in rookeries further south, such as Port Hedland, generally pass the Dampier Peninsula to probable foraging grounds in the Kimberley region (RPS, 2010). Given the known migration route and use of shallow benthic habitats for foraging, it is likely that Flatback Turtles could occur in the Project area.

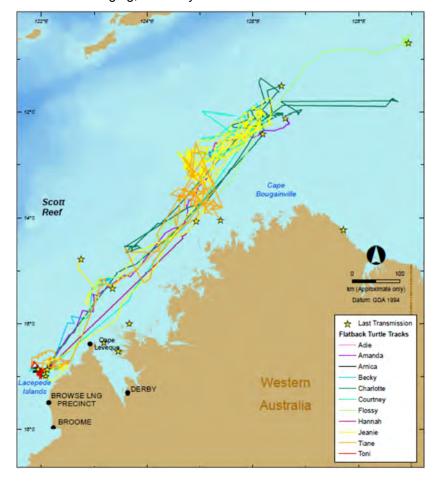


Figure 3-6 Post-nesting migration pathways of Flatback Turtles tagged at Lacepede Islands (2009-2010) (Woodside, 2011)

Hawksbill Turtle

The species has a global distribution throughout tropical, sub-tropical and temperate waters, with nesting largely concentrated on sub-tropical beaches (Marquez, 1990). Adults tend to forage in tropical tidal and sub-tidal coral and rock reef habitats where they primarily feed on sponges and algae (Department of the Environment and Energy, 2017). Key nesting and internesting areas include the Dampier Archipelago, Barrow Island, Lowendal and Thevenard Islands, with areas of Ashmore Reef, Cartier Island and Sandy Island. Given this turtle's regional presence and use of reefs for foraging, it is likely that the Hawksbill Turtle could occur in the Project area.

Crocodiles

Saltwater and Freshwater Crocodiles are known to inhabit marine, coastal and riverine habitats from Port Hedland to Townsville (Department of Conservation and Land Management, 2004). Anecdotal observations from Cockatoo Island confirm that Saltwater Crocodiles occur infrequently near the Project area. Due to the lack of freshwater habitats in the Project area, the Freshwater Crocodile is unlikely to occur.

3.2 Field Survey

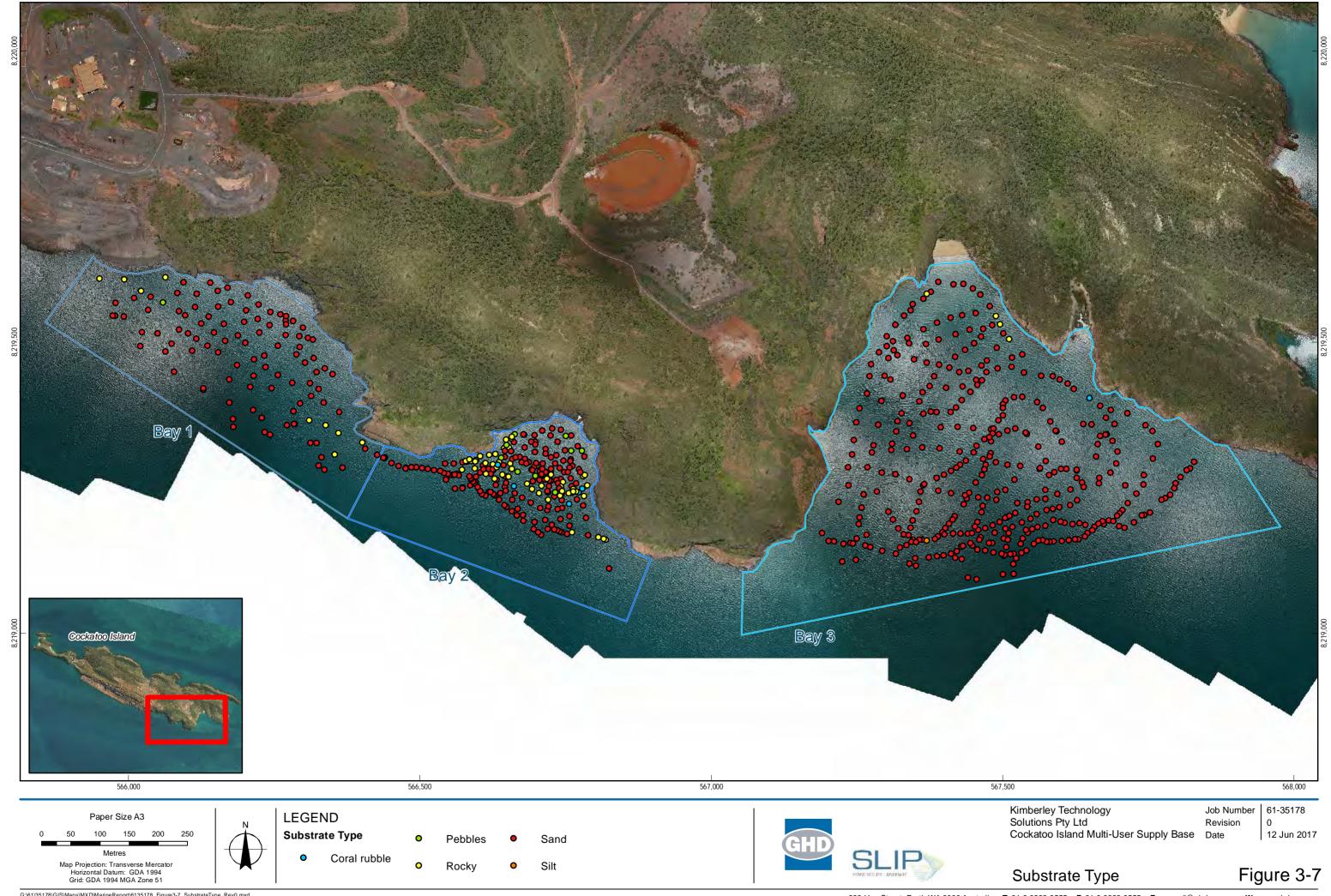
Seven hundred and twenty-three sites were surveyed across the three bays. The location and distribution of these sites are shown in Figure 3-7. Opportunistic surveys of the ship loader piles were also undertaken to characterise marine life colonisation of these metal structures.

3.2.1 Marine Substrate

The dominant substrate across the thee bays was sand with fewer sites comprised of silt, gravel/pebbles, coral rubble and rocks. All three bays had similar substrate patterns with rocky habitats around the shoreline and sandy bottoms in the centre, though Bay 2 had a considerable greater proportion of rocky substrate (21%) than the other two bays (1-8%). A breakdown of the seabed substrate and its spatial distribution is shown in Table 3-4. Examples of substrate observations are illustrated in Plate 3-1.

Table 3-4 Substrate percentages within each of the three bays

Bay	Silt	Sand	Gravel/Pebbles	Coral Rubble	Rocky
Bay 1 (proposed wharf site)	0%	91%	1%	0%	8%
Bay 2	0%	71%	5%	3%	21%
Bay 3 (Copper Bay)	<1%	98%	0%	<1%	1%



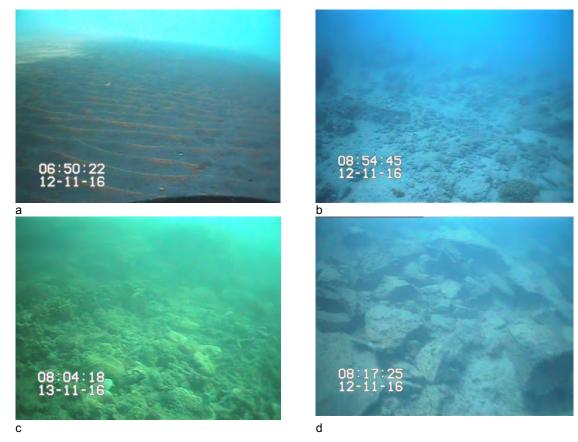


Plate 3-1 Observations of dominant substrate types including a) sand, b) pebbles, c) coral rubble and d) rocky

3.2.2 Marine Habitats

Overview

All three bays had similar physical attributes with gently sloping sandy beaches from the shore to approximately 0 m LAT. Because of the large tidal range, much of this sandy area is likely to be exposed or very shallow at low spring tides. These areas were observed to be very sparsely colonised by hard coral and macroalgae (particularly *Chlorodesmis* spp "turtle weed"). Rocky environments were common in deeper waters around the headlands and were observed to be colonised only by turfing algae. As the depth increases, sandy habitats are more densely colonised by macroalgae and hard coral until approximately -5 m LAT. Thereafter, the slope profile steeply descends to -20 m LAT where generally only rippled sand was present with sparse hydroids and soft coral.

Bay 1 - Proposed Wharf Area

The survey area for Bay 1 was approximately 7.55 ha. Shallow (below 0 m LAT) sandy habitats extended from the shoreline for approximately 120 m and steeply descended thereafter to -20 m LAT. Of the 110 survey sites in this Bay, 67% were comprised of bare substrate (Table 3-5).

Macroalgae was observed at 21% of all sites with the majority comprised of very sparse to sparse coverage, and limited to shallower than -15 m LAT (Figure 3-8). While fine grain identification of algae was not possible through video analysis, macroalgae included *Caulerpa* spp. and *Chlorodesmis* spp.

Hard coral occurred at 15% of sites primarily at the south-eastern edge of the bay (Figure 3-9). Hard coral coverage was moderate to dense. Several sites outside of this south-eastern edge of the bay had very sparse hard coral cover. Most sites with hard corals were shallower than -5 to -10 m LAT. While fine grain identification of hard corals was not possible through video analysis, corals included:

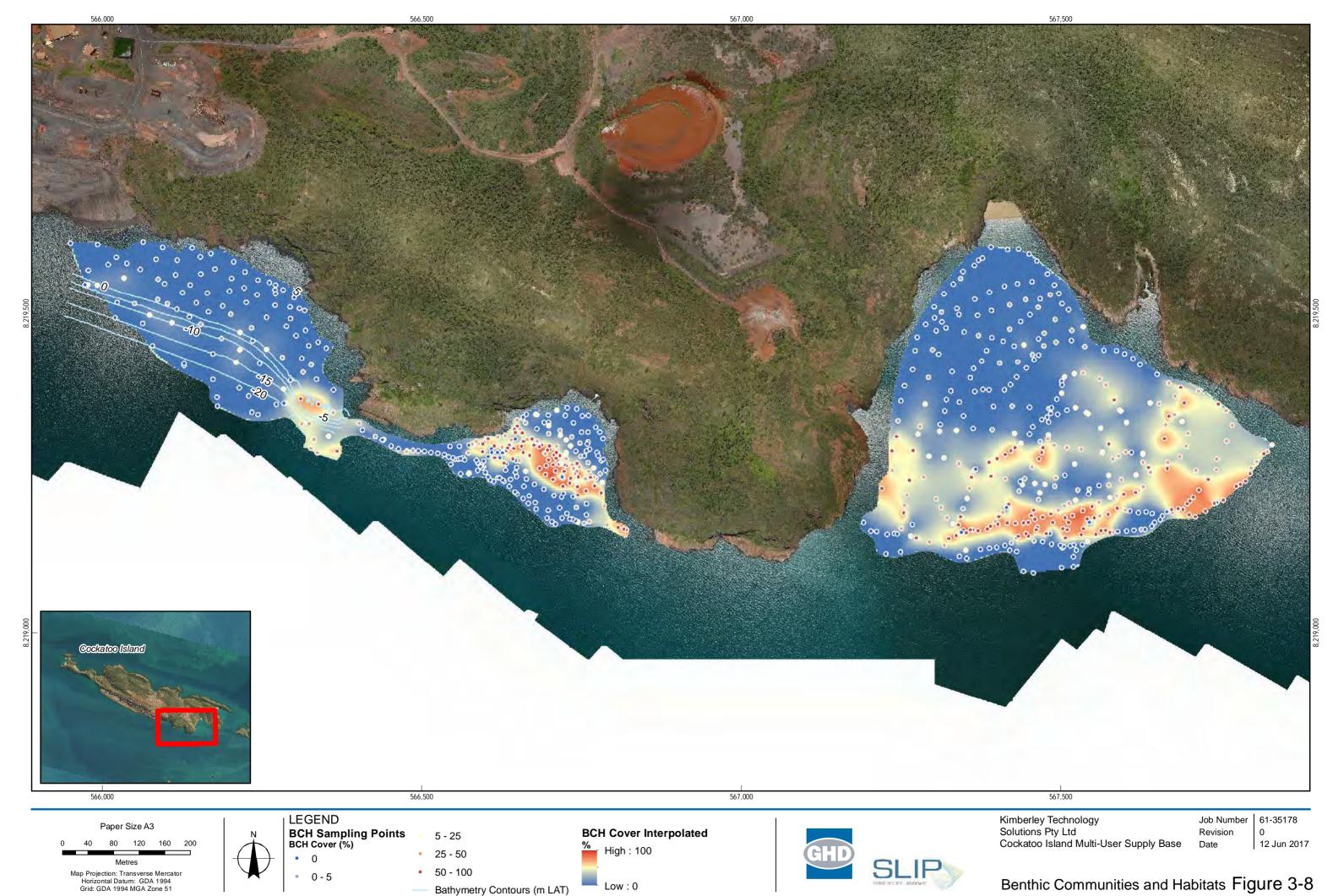
- Foliose forms of *Turbinaria*;
- Massive and sub-massive forms of Porites;
- Branching Acropora; and
- Other corals from the families Acroporidae, Faviidae and Pocilloporidae.

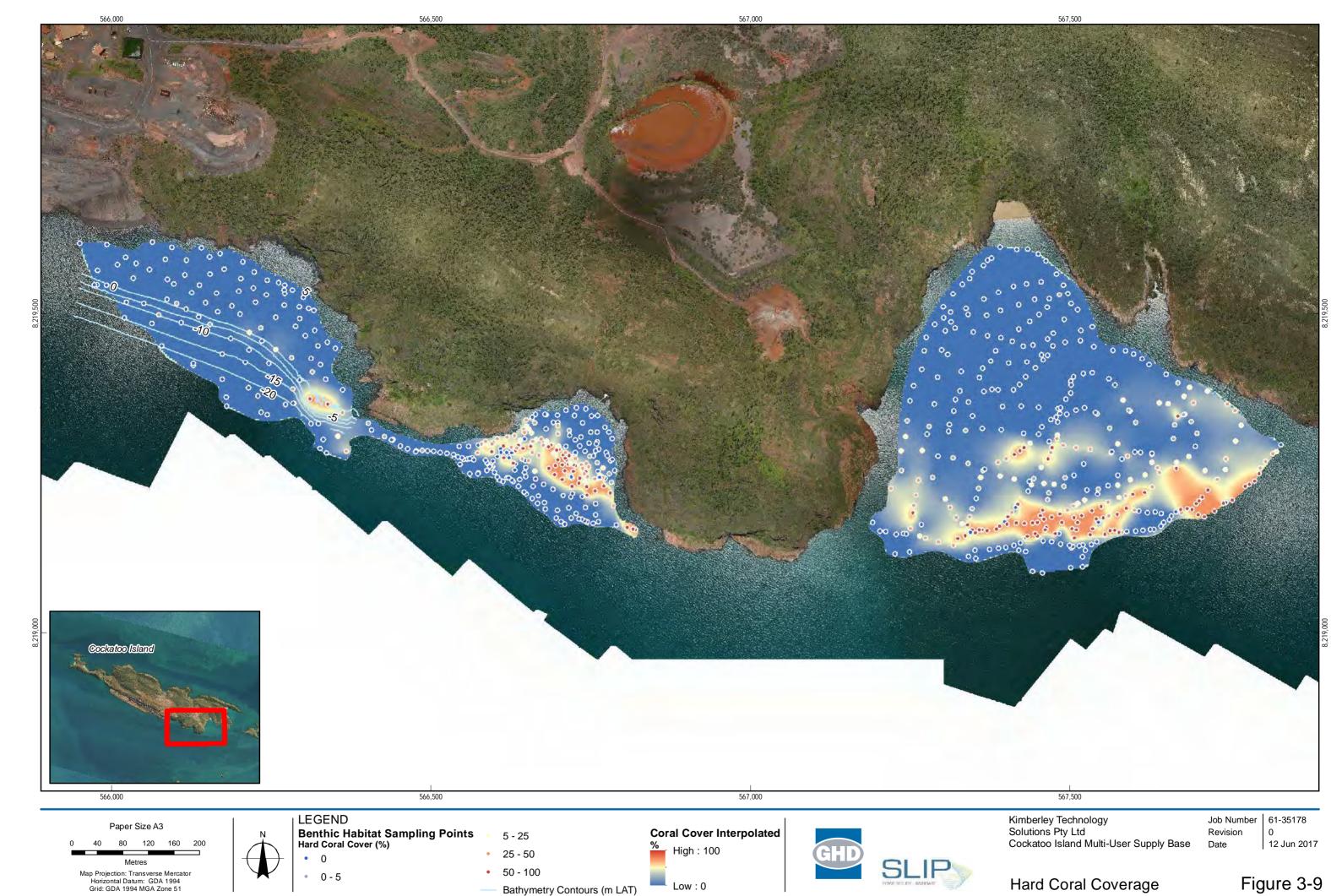
Soft coral and hydroids were observed at less than 10% of sites (Table 3-5). Video stills of sites at key areas throughout Bay 1 are shown in Figure 3-10.

Table 3-5 Marine habitat types within Bay 1

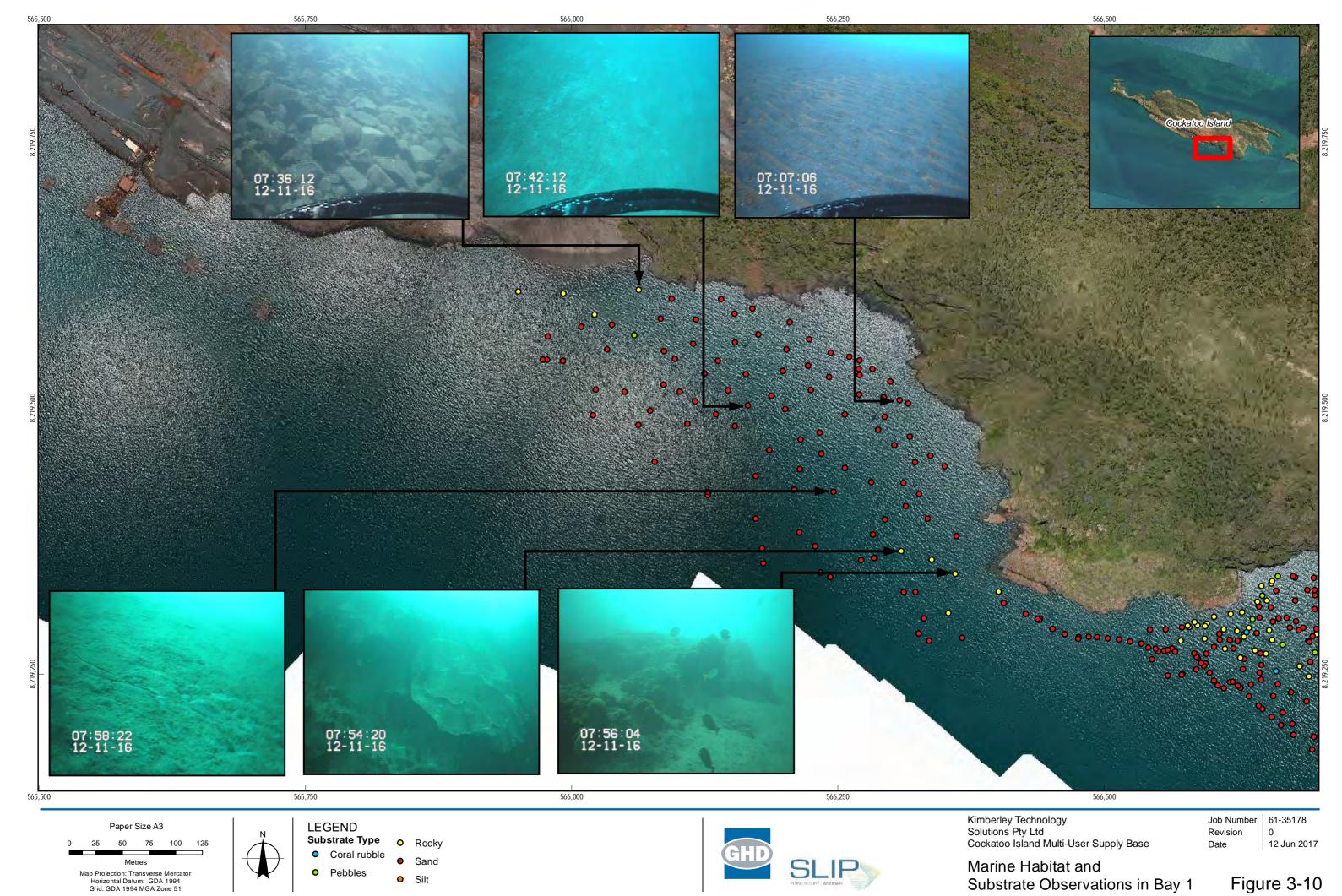
Marine Habitat Types	Observations %	Marine Habitat	Observations %
Bare	67	Soft Coral	6
Macroalgae	21	Soit Corai	0
Dense	0	Dense	0
Moderate	4	Moderate	0
Sparse	65	Sparse	89
Very Sparse	30	Very Sparse	0
Hard Coral	15	Hydroids	8
Dense	13	Dense	0
Moderate	13	Moderate	11
Sparse	19	Sparse	89
Very Sparse	56	Very Sparse	0

Note: Multiple marine habitat types were observed at some sites and therefore the cumulative percentages are >100%.





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Bay 2

The survey area for Bay 2 was approximately 3.47 ha. Shallow sandy habitats extended from the shoreline to approximately 360 m with a band of hard coral prior to the steep drop-off. Of the 235 sites in Bay 2, 47% had bare substrate (Table 3-6).

Macroalgae were observed at 30% of the Bay 2 sites. The majority of these sites had sparse coverage (Figure 3-8). While fine grain identification of macrolgae was not possible through video analysis, types included *Caulerpa* spp and *Chlorodesmis* spp.

Hard corals were observed at 43% of sites with the majority restricted to approximately a 50 m band width across the bay (Figure 3-9). Approximately 80% of all coral sites had moderate to dense coverage. While fine grain identification of hard corals was not possible through video analysis, corals included:

- Foliose forms of Turbinaria;
- Massive and sub-massive forms of Porites;
- Fungia;
- Branching Acropora; and
- Other corals from the families Acroporidae, Faviidae and Pocilloporidae.

Soft corals were observed at 1% of the Bay 2 sites (Table 3-6). Video stills of marine features of Bay 2 are shown in Plate 3-2.

Table 3-6 Marine habitat types within Bay 2

Marine Habitat Types	Observations %	Marine Habitat	Observations %
Bare	47	Soft Coral	1
Macroalgae	30	Soit Corai	•
Dense	3	Dense	0
Moderate	11	Moderate	0
Sparse	66	Sparse	50
Very Sparse	20	Very Sparse	50
Hard Coral	43	Hydroids	0
Dense	46	Dense	0
Moderate	32	Moderate	0
Sparse	14	Sparse	0
Very Sparse	9	Very Sparse	0

Note: Multiple marine habitat types were observed at some sites and therefore the total cumulative percentages are >100%.

Bay 3 (Copper Bay)

The survey area for Bay 3 (Copper Bay) was approximately 19.64 ha. Shallow sandy habitats extend from the shoreline for approximately 400 m, then transition into a deeper band of hard coral before steeply descending down the drop-off. Of the 378 sites in Bay 3, 38% had bare substrate (Table 3-7).

Macroalgae were observed at 36% of the Bay 3 sites (Figure 3-8). The majority of these sites had sparse coverage. While fine grain identification of macroalgae was not possible through video analysis, types included *Caulerpa* spp and *Chlorodesmis* spp.

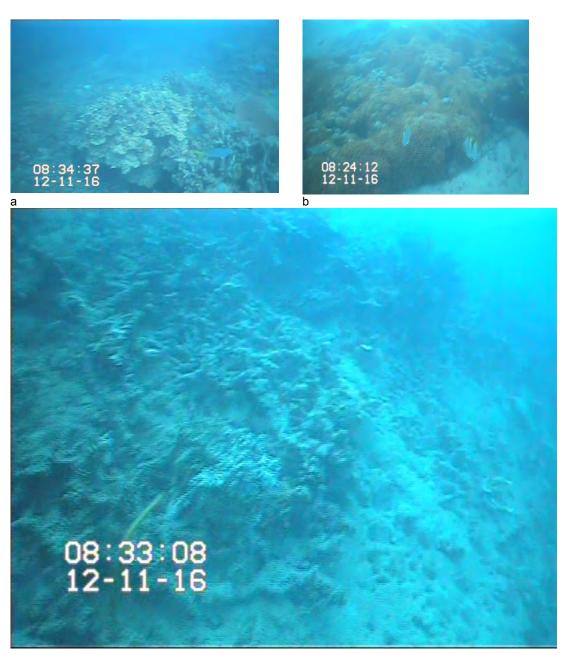


Plate 3-2 Observations of marine habitats at Bay 2 where a) and b) are areas of dense hard coral, and c) is of the steep drop-off with hard coral

Table 3-7 Marine habitat types within Bay 3 (Copper Bay)

Marine Habitat Type	Observations %	Marine Habitat	Observations %	
Bare	38	Soft Coral	4	
Macroalgae	36	Soft Colai		
Dense	1	Dense	0	
Moderate	22	Moderate	0	
Sparse	47	Sparse	25	
Very Sparse	31	Very Sparse	75	
Hard Coral	49	Hydroids	<1	
Dense	41	Dense	0	
Moderate	22	Moderate	0	
Sparse	21	Sparse	100	
Very Sparse	15	Very Sparse	0	

Note: Multiple marine habitat types were observed at some sites and therefore the total cumulative percentages are >100%.

Hard corals were observed at 49% of the bay's sites with the majority of corals restricted to approximately a 50 m wide band across the bay (Figure 3-9). Approximately 60% of all coral observations were moderate to dense coverage. While fine grain identification of hard corals was not possible through video analysis, corals included:

- Foliose forms of Turbinaria;
- Massive and sub-massive forms of Porites;
- Fungia;
- Branching Acropora; and
- Other corals from the families Acroporidae, Faviidae and Pocilloporidae.

Soft corals and hydroids were observed at less than 2% the bay's sites (Table 3-7). Video stills of marine features of Bay 3 are shown in Plate 3-3.



Plate 3-3 Observations of marine habitats at Bay 3 where a) and b) are areas of dense hard coral, and c) and d) are soft coral Gorgonians

3.2.3 Pile Survey

An opportunistic survey was undertaken to assess the marine environment near to and on the piles of the ship loader. Images of the ship loader pile environment are illustrated in Plate 3-4. At the seafloor, sparse soft corals, macroalgae and hydroids were noted. Deeper sections of the piles were colonised by hydroids and macroalgae, and shallower (and likely intertidal) portions were heavily encrusted by bivalves.



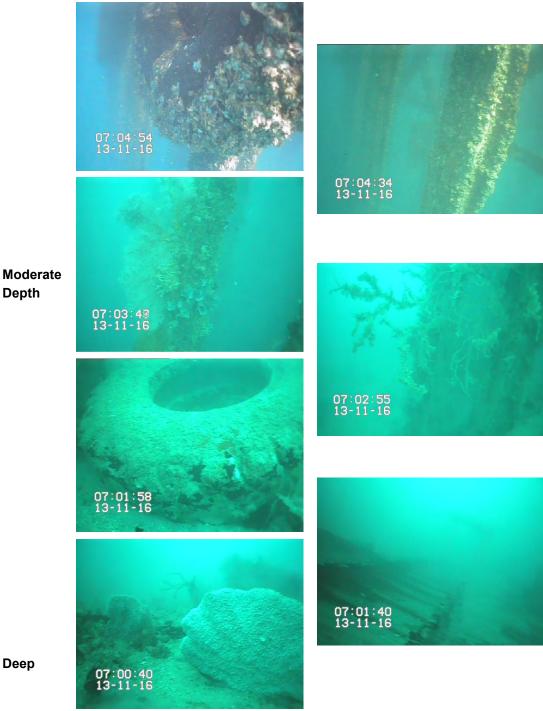


Plate 3-4 Observations of the marine environment at the base of the ship loader piles and growth on the piles

4. Discussion

4.1 Marine Fauna

There is the potential for threatened and listed marine fauna to occur near to the proposed wharf development that may be impacted during construction and operation of the facility. Preparation of construction and operation management plans with appropriate controls and mitigation measures will reduce potential impacts and risks to marine fauna to acceptable levels.

4.2 Benthic Communities and Habitats

The focus of the field survey was to characterise the BCH in the bay proposed for wharf development (Bay 1) and the two adjacent bays to the southeast (Bay 2 and Bay 3).

The survey identified that the estimated percentage of bare substrate in Bay 1 (67.3%) is substantially higher than in Bay 2 (47.2%) and Bay 3 (37.6%), likely due to Bay 1 having been impacted by nearby mining-related activities to the northwest (Table 4-1, which summarises the percentage of each habitat category in Table 3-5, Table 3-6 and Table 3-7 accounting for sites with multiple habitat types).

Soft coral and hydroids are relatively minor contributors to the benthic community assemblage, although they represent a greater proportion of Bay 1 than the other two bays (Table 4-1).

Habitat Category	Bay 1 Observations	Bay 2 Observations	Bay 3 Observations
Bare	67.3%	47.2%	37.6%
Algae	10.9%	9.4%	13.8%
Hard Coral	9.1%	23.0%	27.0%
Hard Coral & Algae	3.6%	19.1%	20.6%
Hard Coral & Hydroids	0.9%	0.0%	0.0%
Hard Coral, Soft Coral & Algae	0.9%	0.4%	0.5%
Hard Coral, Sponges & Algae	0.0%	0.4%	0.0%
Hydroids	1.8%	0.0%	0.0%
Soft Coral & Algae	0.0%	0.4%	0.3%
Soft Coral, Algae & Hydroids	5.5%	0.0%	0.3%

The habitat density observations (e.g. sparse, dense) for hard coral and macroalgae were used to estimate total coverage areas within each bay and over the entire survey area on the basis of the values in Table 2-1, which demonstrates that (Table 4-2):

• The estimated hard coral area in Bay 1 of 0.2 ha is approximately 3% of this bay's surveyed area. The total estimated hard coral area of the three bays is 4.92 ha. The hard coral area in Bay 1 (0.2 ha) comprises only 4% of the total hard coral area across the three bays. Presumably, the lower percentage of hard coral area in Bay 1 is because of its proximity to past mining-related activities (and associated impacts). Construction and operation of the wharf facility will pose elevated environmental risks and impacts to only ~4% of the existing hard coral cover across the three bays (i.e. those in Bay 1); and

• The estimated macroalgal area in Bay 1 is 0.19 ha, representing 3% of this bay's surveyed area. This is a similar proportion to Bay 2 (5%) and Bay 3 (6%). Furthermore, the estimated macroalgae area in Bay 1 comprises 13% of the total macroalgae area across the three bays. A relatively small proportion (13%) of the total macroalgae area across the three bays will be at risk of impact by construction and operational activities of the wharf facility.

Table 4-2 Summary of Hard Coral and Macroalgae coverage areas

Parameter	Bay 1	Bay 2	Bay 3	Total
Total Surveyed Area (ha)	7.55	3.47	19.64	30.66
Hard Coral Area Calculations				
Calculated Hard Coral Coverage (ha)	0.20	0.72	4.00	4.92
% Hard Coral Cover	3%	21%	20%	16%
Macroalgae Area Calculations				
Calculated Algae Coverage (ha)	0.19	0.16	1.15	1.5
% Algae Cover	3%	5%	6%	5%

4.3 Wharf Colonisation

On the basis of the benthic communities on the existing ship loader piles, it is anticipated that a similar community assemblage will colonise the proposed wharf infrastructure. Further, colonisation of the wharf structure by hard corals may occur, particularly along the eastern portion of Bay 1 where some hard corals currently occur.

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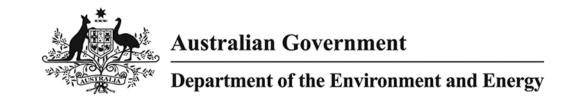
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Appendix A – EPBC Act Protected Matters Report



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

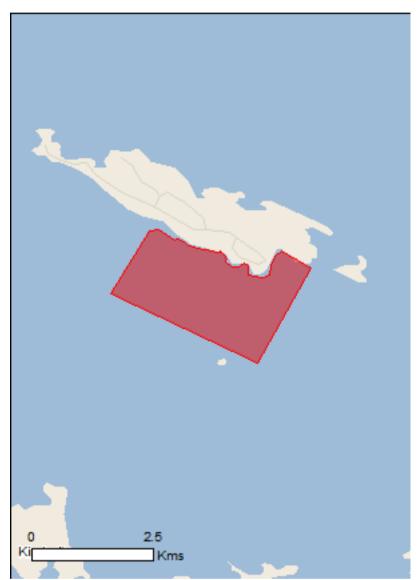
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Summary Details

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2010

Coordinates
Buffer: 1.0Km



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the <u>Administrative Guidelines on Significance</u>.

World Heritage Properties:	None
National Heritage Places:	1
Wetlands of International Importance:	None
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	None
Listed Threatened Species:	15
Listed Migratory Species:	32

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at http://www.environment.gov.au/heritage

A <u>permit</u> may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	62
Whales and Other Cetaceans:	11
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Commonwealth Reserves Marine:	None

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

State and Territory Reserves:	None
Regional Forest Agreements:	None
Invasive Species:	1
Nationally Important Wetlands:	None
Key Ecological Features (Marine)	None

Details

Matters of National Environmental Significance

National Heritage Properties		[Resource Information]
Name	State	Status
Natural		
The West Kimberley	WA	Listed place

Listed Threatened Species		[Resource Information]
Name	Status	Type of Presence
Birds		
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Erythrotriorchis radiatus		
Red Goshawk [942]	Vulnerable	Species or species habitat may occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Mammals		
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Breeding known to occur within area
Saccolaimus saccolaimus nudicluniatus	Outto alles En dans mand	On a sing on a sing lank that
Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889]	Critically Endangered	Species or species habitat may occur within area
Reptiles		
<u>Caretta caretta</u>		
Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas		
Green Turtle [1765]	Vulnerable	Congregation or aggregation known to occur within area
Dermochelys coriacea		
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
Eretmochelys imbricata		
Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
Natator depressus		
Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area
Sharks		
Sharks Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area

Name	Status	Type of Presence
Glyphis garricki Northern River Shark, New Guinea River Shark [82454]	Endangered	Species or species habitat may occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Listed Migratory Species		[Resource Information]
* Species is listed under a different scientific name on	the EPBC Act - Threatened	
Name Minneton Maria Binda	Threatened	Type of Presence
Migratory Marine Birds <u>Apus pacificus</u>		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Fregata ariel Lesser Frigatebird, Least Frigatebird [1012]		Foraging, feeding or related behaviour known to occur within area
Fregata minor Great Frigatebird, Greater Frigatebird [1013]		Foraging, feeding or related behaviour likely to occur within area
Sula sula Red-footed Booby [1023]		Breeding known to occur within area
Migratory Marine Species		
Balaenoptera edeni Bryde's Whale [35]		Species or species habitat may occur within area
Carcharodon carcharias White Shark, Great White Shark [64470]	Vulnerable	Species or species habitat may occur within area
Caretta caretta Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas Green Turtle [1765]	Vulnerable	Congregation or aggregation known to occur within area
Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
<u>Dermochelys coriacea</u> Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
Dugong dugon Dugong [28]		Species or species habitat likely to occur within area
Eretmochelys imbricata Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
Manta alfredi Reef Manta Ray, Coastal Manta Ray, Inshore Manta Ray, Prince Alfred's Ray, Resident Manta Ray [84994]		Species or species habitat known to occur within area

Name	Threatened	Type of Presence
Manta birostris Giant Manta Ray, Chevron Manta Ray, Pacific Manta Ray, Pelagic Manta Ray, Oceanic Manta Ray [84995]		Species or species habitat may occur within area
Megaptera novaeangliae Humpback Whale [38]	Vulnerable	Breeding known to occur within area
Natator depressus Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur
Orcaella brevirostris Irrawaddy Dolphin [45]		within area Species or species habitat may occur within area
Orcinus orca Killer Whale, Orca [46]		Species or species habitat may occur within area
Pristis clavata Dwarf Sawfish, Queensland Sawfish [68447]	Vulnerable	Species or species habitat known to occur within area
Pristis zijsron Green Sawfish, Dindagubba, Narrowsnout Sawfish [68442]	Vulnerable	Species or species habitat known to occur within area
Rhincodon typus Whale Shark [66680]	Vulnerable	Species or species habitat may occur within area
Sousa chinensis Indo-Pacific Humpback Dolphin [50]		Breeding known to occur within area
Tursiops aduncus (Arafura/Timor Sea populations) Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Cecropis daurica Red-rumped Swallow [80610]		Species or species habitat may occur within area
Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
Hirundo rustica Barn Swallow [662]		Species or species habitat may occur within area
Motacilla cinerea Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava Yellow Wagtail [644]		Species or species habitat may occur within area
Migratory Wetlands Species		
Acrocephalus orientalis Oriental Reed-Warbler [59570]		Species or species habitat may occur within area
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area

Name	Threatened	Type of Presence
Pandion haliaetus		
Osprey [952]		Breeding known to occur within area

Barn Swallow [662]

Other Matters Protected by the EPBC Act		
Listed Marine Species		[Resource Information]
* Species is listed under a different scientific name on	the EPBC Act - Threatened	d Species list.
Name	Threatened	Type of Presence
Birds		
Acrocephalus orientalis		
Oriental Reed-Warbler [59570]		Species or species habitat may occur within area
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Ardea alba		
Great Egret, White Egret [59541]		Species or species habitat likely to occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
<u>Cuculus saturatus</u>		
Oriental Cuckoo, Himalayan Cuckoo [710]		Species or species habitat may occur within area
Fregata ariel		
Lesser Frigatebird, Least Frigatebird [1012]		Foraging, feeding or related behaviour known to occur within area
Fregata minor		
Great Frigatebird, Greater Frigatebird [1013] Haliaeetus leucogaster		Foraging, feeding or related behaviour likely to occur within area
White-bellied Sea-Eagle [943]		Species or species habitat likely to occur within area
Hirundo daurica		
Red-rumped Swallow [59480]		Species or species habitat may occur within area
Hirundo rustica		
D 0 11 10001		

Species or species habitat may occur within area

Name	Threatened	Type of Presence
Motacilla cinerea		
Grey Wagtail [642]		Species or species habitat may occur within area
Motacilla flava		
Yellow Wagtail [644]		Species or species habitat may occur within area
Numenius madagascariensis		
Eastern Curlew, Far Eastern Curlew [847]	Critically Endangered	Species or species habitat may occur within area
Pandion haliaetus		
Osprey [952]		Breeding known to occur within area
Sula sula Red-footed Booby [1023]		Breeding known to occur within area
Fish		
Campichthys tricarinatus		
Three-keel Pipefish [66192]		Species or species habitat may occur within area
Choeroichthys brachysoma		
Pacific Short-bodied Pipefish, Short-bodied Pipefish [66194]		Species or species habitat may occur within area
Choeroichthys suillus		
Pig-snouted Pipefish [66198]		Species or species habitat may occur within area
Corythoichthys amplexus		
Fijian Banded Pipefish, Brown-banded Pipefish [66199]		Species or species habitat may occur within area
Corythoichthys flavofasciatus		
Reticulate Pipefish, Yellow-banded Pipefish, Network Pipefish [66200]		Species or species habitat may occur within area
Cosmocampus banneri		
Roughridge Pipefish [66206]		Species or species habitat may occur within area
<u>Doryrhamphus excisus</u>		
Bluestripe Pipefish, Indian Blue-stripe Pipefish, Pacific Blue-stripe Pipefish [66211]		Species or species habitat may occur within area
Doryrhamphus janssi Cleaner Pipefish, Janss' Pipefish [66212]		Species or species habitat
		may occur within area
Halicampus brocki		
Brock's Pipefish [66219]		Species or species habitat may occur within area
Halicampus grayi		
Mud Pipefish, Gray's Pipefish [66221]		Species or species habitat may occur within area
Halicampus spinirostris		
Spiny-snout Pipefish [66225]		Species or species habitat may occur within area
Haliichthys taeniophorus		
Ribboned Pipehorse, Ribboned Seadragon [66226]		Species or species habitat may occur within area
Hippichthys penicillus		
Beady Pipefish, Steep-nosed Pipefish [66231]		Species or species habitat may occur within area
Hippocampus histrix		
Spiny Seahorse, Thorny Seahorse [66236]		Species or species

Name	Threatened	Type of Presence
		habitat may occur within
Hippocampus kuda		area
Spotted Seahorse, Yellow Seahorse [66237]		Species or species habitat
•		may occur within area
Hippocampus planifrons		
Flat-face Seahorse [66238]		Species or species habitat
• •		may occur within area
<u>Hippocampus spinosissimus</u>		
Hedgehog Seahorse [66239]		Species or species habitat
		may occur within area
Micrognathus micronotopterus		
Tidepool Pipefish [66255]		Species or species habitat
		may occur within area
Solegnathus hardwickii		
Pallid Pipehorse, Hardwick's Pipehorse [66272]		Species or species habitat
		may occur within area
Solegnathus lettiensis		
Gunther's Pipehorse, Indonesian Pipefish [66273]		Species or species habitat
		may occur within area
Solenostomus cyanopterus		
Robust Ghostpipefish, Blue-finned Ghost Pipefish,		Species or species habitat
[66183]		may occur within area
Solenostomus paegnius		
Rough-snout Ghost Pipefish [68425]		Species or species habitat
		may occur within area
Syngnathoides biaculeatus		
Double-end Pipehorse, Double-ended Pipehorse,		Species or species habitat
Alligator Pipefish [66279]		may occur within area
Trachyrhamphus bicoarctatus		
Bentstick Pipefish, Bend Stick Pipefish, Short-tailed		Species or species habitat
Pipefish [66280]		may occur within area
Trachyrhamphus longirostris		
Straightstick Pipefish, Long-nosed Pipefish, Straight		Species or species habitat
Stick Pipefish [66281]		may occur within area
Mammals		
Dugong dugon		O a sala a san an a sala a babitat
Dugong [28]		Species or species habitat likely to occur within area
		mony to occur within area
Reptiles		
Acalyptophis peronii Horned Seasnake [1114]		Species or species habitat
nomed Codonato [1111]		may occur within area
Ainveurus duboisii		
Aipysurus duboisii Dubois' Seasnake [1116]		Species or species habitat
		may occur within area
<u>Aipysurus eydouxii</u>		
Spine-tailed Seasnake [1117]		Species or species habitat
		may occur within area
<u>Aipysurus laevis</u>		
Olive Seasnake [1120]		Species or species habitat
		may occur within area
Astrotia stokesii		
Stokes' Seasnake [1122]		Species or species habitat
_ -		may occur within area

Name	Threatened	Type of Presence
Caretta caretta		
Loggerhead Turtle [1763]	Endangered	Species or species habitat known to occur within area
Chelonia mydas	\/	
Green Turtle [1765]	Vulnerable	Congregation or aggregation known to occur within area
<u>Crocodylus johnstoni</u>		
Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773]		Species or species habitat may occur within area
Crocodylus porosus		
Salt-water Crocodile, Estuarine Crocodile [1774]		Species or species habitat likely to occur within area
Dermochelys coriacea		
Leatherback Turtle, Leathery Turtle, Luth [1768]	Endangered	Species or species habitat likely to occur within area
Disteira kingii		
Spectacled Seasnake [1123]		Species or species habitat may occur within area
Disteira major Olive booded Secondes [1124]		Charles an anasias bable (
Olive-headed Seasnake [1124]		Species or species habitat may occur within area
Emydocephalus annulatus Turtle beeded Secondo [1125]		Chasias ar anasias habitat
Turtle-headed Seasnake [1125]		Species or species habitat may occur within area
Eretmochelys imbricata		
Hawksbill Turtle [1766]	Vulnerable	Species or species habitat likely to occur within area
Hydrelaps darwiniensis		
Black-ringed Seasnake [1100]		Species or species habitat may occur within area
Hydrophis elegans		
Elegant Seasnake [1104]		Species or species habitat may occur within area
Hydrophis mcdowelli		
null [25926]		Species or species habitat may occur within area
Hydrophis ornatus		
Spotted Seasnake, Ornate Reef Seasnake [1111]		Species or species habitat may occur within area
Lapemis hardwickii		
Spine-bellied Seasnake [1113]		Species or species habitat may occur within area
Natator depressus	.,	
Flatback Turtle [59257]	Vulnerable	Congregation or aggregation known to occur within area
Pelamis platurus Yellow-bellied Seasnake [1091]		Species or species habitat
reliow-belied deastlake [1031]		may occur within area
Whales and other Cetaceans		[Resource Information]
Name	Status	Type of Presence
Mammals Balaenoptera edeni		
Bryde's Whale [35]		Species or species habitat may occur within area

Name	Status	Type of Presence
<u>Delphinus delphis</u>		
Common Dophin, Short-beaked Common Dolphin [60]		Species or species habitat may occur within area
Grampus griseus		
Risso's Dolphin, Grampus [64]		Species or species habitat may occur within area
Megaptera novaeangliae		
Humpback Whale [38]	Vulnerable	Breeding known to occur within area
Orcaella brevirostris		
Irrawaddy Dolphin [45]		Species or species habitat may occur within area
Orcinus orca		
Killer Whale, Orca [46]		Species or species habitat may occur within area
Sousa chinensis		
Indo-Pacific Humpback Dolphin [50]		Breeding known to occur within area
Stenella attenuata		
Spotted Dolphin, Pantropical Spotted Dolphin [51]		Species or species habitat may occur within area
<u>Tursiops aduncus</u>		
Indian Ocean Bottlenose Dolphin, Spotted Bottlenose		Species or species habitat
Dolphin [68418]		likely to occur within area
Tursiops aduncus (Arafura/Timor Sea populations)		
Spotted Bottlenose Dolphin (Arafura/Timor Sea populations) [78900]		Species or species habitat likely to occur within area
Tursiops truncatus s. str.		
Bottlenose Dolphin [68417]		Species or species habitat may occur within area

Extra Information

Invasive Species [Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

Name	Status	Type of Presence
Plants		
Jatropha gossypifolia		
Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf		Species or species habitat
Physic Nut, Cotton-leaf Jatropha, Black Physic Nut		likely to occur within area
[7507]		

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the gualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

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Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- -Office of Environment and Heritage, New South Wales
- -Department of Environment and Primary Industries, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment, Water and Natural Resources, South Australia
- -Department of Land and Resource Management, Northern Territory
- -Department of Environmental and Heritage Protection, Queensland
- -Department of Parks and Wildlife, Western Australia
- -Environment and Planning Directorate, ACT
- -Birdlife Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -South Australian Museum
- -Queensland Museum
- -Online Zoological Collections of Australian Museums
- -Queensland Herbarium
- -National Herbarium of NSW
- -Royal Botanic Gardens and National Herbarium of Victoria
- -Tasmanian Herbarium
- -State Herbarium of South Australia
- -Northern Territory Herbarium
- -Western Australian Herbarium
- -Australian National Herbarium, Canberra
- -University of New England
- -Ocean Biogeographic Information System
- -Australian Government, Department of Defence
- Forestry Corporation, NSW
- -Geoscience Australia
- -CSIRO
- -Australian Tropical Herbarium, Cairns
- -eBird Australia
- -Australian Government Australian Antarctic Data Centre
- -Museum and Art Gallery of the Northern Territory
- -Australian Government National Environmental Science Program
- -Australian Institute of Marine Science
- -Reef Life Survey Australia
- -American Museum of Natural History
- -Queen Victoria Museum and Art Gallery, Inveresk, Tasmania
- -Tasmanian Museum and Art Gallery, Hobart, Tasmania
- -Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the Contact Us page.

Appendix B – Survey Data

D. Subtract Method Metho	ID Substrate	Habitat1	Hab1Covora	Uahitat?	Hah2Covora	∐ahitat2	Hah2Covora	Commont	Easting	Northing	Pav
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71 Rocky Hard coral Dense 566309.832342 8219365.512719 1 72 Rocky Hard coral Dense 566398.310238 8219357.431605 1 73 Rocky Hard coral Moderate Moderate 566360.12388 8219357.431605 1 74 Rocky Algae Moderate Hard coral Very sparse 566400.081548 8219327.304366 1 75 Sand 566439.310445 8219301.960489 2 75 Sand Hard coral Very sparse 566439.110445 8219300.780912 2 78 Sand Hard coral Very sparse 566476.09207 8219344.59946 2 79 Sand Algae Sparse \$short algae maybe caulerpa 566679.19389 8219340.16255 2 80 Sand Algae Sparse \$short algae maybe caulerpa 5666710.307649 8219348.133823 2 81 Sand \$2 Sand \$1 Sand \$66710.307649 8219348.133823 2 82 Sand \$3 Sand \$4 Sand \$4 Sand \$66771.243297 8219303.59244 2 85 Pebbles \$4 Sand \$4 Sand \$4 Sand \$4 Sand \$66774.169761 82											
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91 Sand						566773.439825	8219281.770673	2
92 Rocky						566780.279836	8219269.164892	2
93 Rocky							8219271.368305	2
								2
94 Sand							8219276.781738	
95 Sand						566761.889405	8219286.835222	2
96 Sand	Algae	Very sparse				566746.493969	8219296.472722	2
97 Sand	Algae	Very sparse				566734.198654	8219305.709980	2
98 Sand	Hard coral	Very sparse					8219316.444798	2
	riara corar	very sparse						2
99 Sand							8219328.635189	
100 Sand	Algae	Sparse				566677.583558	8219341.663483	2
101 Pebbles						566663.230517	8219341.797127	2
102 Sand						566679.705572	8219318.968463	2
103 Sand	Algae	Moderate					8219291.553183	2
	_							
104 Sand	Algae	Sparse		Very sparse			8219278.122641	2
105 Sand	Algae	Sparse	Hard coral	Moderate		566742.088591	8219264.835198	2
106 Sand	Algae	Moderate				566760.663165	8219252.658541	2
107 Coral rubble	Algae	Very sparse			coral rubble	566772 213172	8219242.156995	2
			Hard caral	Vorusparso	cordi rabbic			2
108 Rocky	Algae	Sparse	Hard coral	Very sparse			8219235.404128	
109 Rocky	Algae	Sparse	Hard coral	Sparse		566763.464746	8219247.248008	2
110 Rocky	Hard coral	Moderate	Algae	Very sparse		566745.900536	8219259.939744	2
111 Rocky	Hard coral	Moderate	Algae	Very sparse		566725.063612	8219272.545410	2
112 Rocky	Hard coral	Dense	Algae	Sparse			8219287.275097	2
•								
113 Sand	Algae	Sparse	Hard coral	Sparse			8219299.530219	2
114 Rocky	Hard coral	Sparse	Algae	Sparse		566653.078045	8219318.698545	2
115 Rocky	Hard coral	Moderate	Algae	Sparse		566644.247420	8219317.866027	2
116 Rocky	Hard coral	Dense	Algae	Sparse		566655.183611	8219291.150977	2
117 Pebbles	Hard coral	Moderate	Algae	Sparse			8219277.353145	2
118 Rocky	Hard coral	Dense	Algae	Sparse			8219257.055557	2
119 Rocky	Hard coral	Dense	Algae	Sparse			8219247.703336	2
120 Rocky	Hard coral	Dense	Algae	Sparse		566704.688032	8219240.192851	2
121 Rocky	Hard coral	Dense	Algae	Sparse		566720.327189	8219229.227208	2
122 Sand	Hard coral	Dense	0	• •			8219215.217524	2
124 Sand	Hard coral	Moderate					8219198.322835	2
125 Sand	Hard coral	Dense				566780.088067	8219219.309955	2
126 Sand	Hard coral	Dense				566769.836942	8219229.665695	2
127 Sand	Hard coral	Dense					8219240.975972	2
128 Sand	Hard coral	Moderate					8219263.053313	2
129 Sand	Hard coral	Dense				566715.918424	8219276.688127	2
130 Sand	Hard coral	Dense				566705.950538	8219278.167425	2
131 Sand	Hard coral	Dense				566695.857766	8219285.469440	2
132 Sand	Hard coral	Dense					8219293.371736	2
			• 1	ė.				
133 Sand	Hard coral	Moderate	Algae	Sparse		5666/1.65864/	8219302.600444	2
134 Sand	Hard coral	Sparse	Algae	Moderate		566656.548841	8219312.388159	2
135 Sand	Hard coral	Moderate	Algae	Sparse		566658.494641	8219299.227482	2
136 Sand	Hard coral	Moderate	Algae	Sparse		566674 798261	8219293.448053	2
137 Sand	Hard coral	Dense		Sparse			8219281.014461	2
			Algae					
138 Pebbles	Hard coral	Dense	Algae	Sparse			8219270.194632	2
139 Rocky	Hard coral	Dense	Algae	Sparse		566708.573618	8219253.188379	2
140 Sand	Hard coral	Dense				566720.199304	8219241.781355	2
141 Sand	Hard coral	Dense	Algae	Very sparse		566730.786166	8219234.590221	2
142 Sand	Hard coral	Dense					8219228.459346	2
			Algae	Very sparse				
143 Coral rubble	Hard coral	Dense	Algae	Very sparse	heavy voral rubble	566756.344120	8219222.445947	2
144 Sand	Hard coral	Moderate				566736.884292	8219257.219845	2
145 Sand	Hard coral	Dense	Algae	Sparse		566725.357145	8219261.718238	2
146 Coral rubble	Hard coral	Dense	0	· ·	coral rubble		8219270.422825	2
			Algon	Coorse	Cordi rubbic			
147 Sand	Hard coral	Dense	Algae	Sparse			8219291.096347	2
148 Sand	Hard coral	Sparse	Algae	Sparse		566664.141135	8219302.169542	2
149 Pebbles	Hard coral	Sparse	Algae	Moderate		566648.810878	8219323.363080	2
150 Sand		Very sparse	Algae	Very sparse		566661.567090	8219328.040783	2
151 Sand		, sparse		- / -			8219328.836737	2
	A1-	C						
152 Sand	Algae	Sparse					8219308.734722	2
153 Sand	Algae	Sparse				566725.312573	8219301.848387	2
154 Sand	Algae	Sparse				566731.939214	8219291.741507	2
155 Sand							8219283.486475	2
156 Sand	Hard core	Very sparse					8219276.377527	2
157 Sand		Very sparse					8219266.241496	2
158 Sand		Sparse					8219257.448204	2
159 Coral rubble	Hard coral	Very sparse			coral rubble	566778.627692	8219248.583185	2
160 Rocky							8219254.197574	2
•	Hard core!	Moderato						2
161 Rocky	Hard coral						8219243.156308	
162 Rocky	Hard coral	Moderate					8219240.322212	2
163 Sand	Hard coral	Moderate				566743.213166	8219239.440321	2
164 Pebbles	Hard coral	Dense				566732.316544	8219242.039662	2
165 Sand		Dense					8219252.409248	2
166 Sand	Hard coral	Dense					8219263.582225	2
167 Sand	Hard coral	Dense				566709.015839	8219272.724782	2
168 Sand	Hard coral	Sparse	Algae	Moderate		566699.362430	8219292.160703	2
169 Sand	Algae	Very sparse	-				8219310.891777	2
								2
170 Sand	Algae	Sparse					8219323.861283	
171 Sand						566/41.911753	8219349.627597	2
172 Pebbles						566759.526683	8219313.612916	2
173 Sand							8219295.432218	2
174 Sand							8219284.509367	2
175 Sand		_					8219276.506463	2
176 Rocky	Hard coral	Dense	Algae	Sparse		566741.834589	8219252.151298	2
177 Rocky				14		566740.513589	8219236.135370	2
	Hard coral	Sparse	Algae	Very sparse				
178 Sand		•	Algae	very sparse		566741 086603		2
178 Sand	Hard coral Algae	Sparse Very sparse	Algae	very sparse			8219195.752838	2
179 Sand		•	Algae	very sparse		566756.703263	8219195.752838 8219184.418541	2
179 Sand 180 Sand		•	Algae	very sparse		566756.703263 566757.041067	8219195.752838 8219184.418541 8219201.241285	2 2
179 Sand		•	Algae	very sparse		566756.703263 566757.041067	8219195.752838 8219184.418541	2
179 Sand 180 Sand		•	Algae	very sparse		566756.703263 566757.041067 566736.149180	8219195.752838 8219184.418541 8219201.241285	2 2

183 Sand								566706.461532	8219214.845786	2
184 Sand								566690.371382	8219224.582985	2
185 Sand								566675.657509	8219232.677034	2
186 Sand								566663.052809	8219240.399620	2
187 Sand								566646.136350	8219250.996639	2
188 Sand								566631.469972	8219264.177336	2
189 Sand								566621.733549	8219273.852944	2
190 Sand									8219287.661554	2
191 Rocky	Hard coral	Dense	Algae	Sparse					8219297.120432	2
192 Rocky	Hard coral		Algae	Sparse					8219295.585760	2
193 Rocky	Hard coral	Dense	, "Bac	Sparse					8219283.175116	2
194 Rocky	Hard coral								8219273.597394	2
195 Rocky	Hard coral								8219265.087410	2
196 Sand	riara corar	Delise							8219244.554333	2
197 Sand									8219229.362989	2
198 Sand									8219213.834710	2
198 Sand										2
									8219203.043261	2
200 Sand									8219190.791867	
201 Sand									8219194.719306	2
202 Sand									8219217.525743	2
203 Sand									8219243.779938	2
204 Sand	Hard coral								8219249.176868	2
205 Sand	Hard coral								8219262.649569	2
206 Sand	Hard coral	Dense							8219263.633313	2
207 Sand	Hard coral	Dense							8219262.876350	2
208 Sand	Hard coral	Dense							8219261.330608	2
209 Coral rubble	Hard coral	Sparse					coral rubble	566661.845019	8219252.418658	2
210 Sand								566630.618670	8219254.352943	2
211 Sand								566618.387799	8219242.444524	2
212 Sand								566637.901358	8219240.195310	2
213 Sand								566647.814697	8219258.464166	2
214 Sand								566646.831638	8219269.350508	2
215 Sand	Hard coral	Dense						566643.560121	8219288.533040	2
216 Sand								566646.028632	8219302.688874	2
217 Rocky	Hard coral	Moderate						566648.114848	8219332.524718	2
218 Rocky									8219334.707752	2
219 Rocky									8219337.142976	2
220 Sand	Hard coral	Moderate	Algae	Sparse					8219313.143277	2
221 Pebbles	Hard coral		Algae	Sparse					8219301.465489	2
222 Pebbles	Hard coral	•	, "Bac	Sparse					8219287.275035	2
223 Pebbles	Hard coral								8219281.134406	2
224 Sand	riara corar	Wioderate							8219603.392039	3
										3
225 Sand 226 Sand									8219586.221587 8219574.390677	3
227 Sand									8219564.945231	3
228 Sand									8219545.091509	3
229 Sand									8219529.832548	3
230 Sand									8219509.942141	3
231 Sand									8219482.579514	3
232 Sand									8219462.027106	3
233 Sand								567271.523941	8219441.509474	3
234 Sand								567267.284810	8219411.436892	3
235 Sand								567254.702132	8219385.978613	3
236 Sand								567249.135415	8219362.418305	3
				Very sparse				567244.589047		3
237 Sand	Hard coral	Very sparse	Algae						8219331.539056	3
237 Sand 238 Sand	Hard coral Hard coral		Algae Algae	Moderate				567242.103646	8219331.539056 8219306.693515	
		Sparse	•		Soft coral	Very sparse				3
238 Sand	Hard coral Hard coral	Sparse	Algae	Moderate	Soft coral	Very sparse Very sparse		567234.925128	8219306.693515	3
238 Sand 239 Sand	Hard coral Hard coral	Sparse Sparse Very sparse	Algae Algae	Moderate Moderate				567234.925128 567235.750366	8219306.693515 8219284.738425	3 3 3
238 Sand 239 Sand 240 Sand	Hard coral Hard coral Hard coral	Sparse Sparse Very sparse	Algae Algae Algae	Moderate Moderate Moderate				567234.925128 567235.750366 567218.99524	8219306.693515 8219284.738425 8219253.693418	3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand	Hard coral Hard coral Hard coral	Sparse Sparse Very sparse	Algae Algae Algae	Moderate Moderate Moderate				567234.925128 567235.750366 567218.995244 567190.536501	8219306.693515 8219284.738425 8219253.693418 8219225.873206	3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand	Hard coral Hard coral Hard coral	Sparse Sparse Very sparse	Algae Algae Algae	Moderate Moderate Moderate				567234.925128 567235.750366 567218.995244 567190.536501 567239.104196	8219306.693515 8219284.738425 8219253.693418 8219225.873206 8219172.029560	3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand	Hard coral Hard coral Hard coral	Sparse Sparse Very sparse	Algae Algae Algae	Moderate Moderate Moderate				567234.925128 567235.750366 567218.99524 567190.536501 567239.104196 567266.711556	8219306.693515 8219284.738425 8219253.693418 8219225.873206 8219172.029560 8219154.593412	3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand	Hard coral Hard coral Hard coral Hard coral	Sparse Sparse Very sparse Moderate	Algae Algae Algae	Moderate Moderate Moderate				567234.925128 567235.750366 567218.995244 567190.536501 567239.104196 567266.711556	8219306.693515 8219284.738425 8219253.693418 8219225.873206 8219172.029560 8219154.593412 8219168.809081	3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand	Hard coral Hard coral Hard coral Hard coral	Sparse Sparse Very sparse Moderate	Algae Algae Algae	Moderate Moderate Moderate				567234.925128 567235.750366 567218.99524 567190.536501 567239.104196 567266.711556 567249.881236 567253.711668	8219306.693515 8219284.738425 8219253.693418 8219225.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087	3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Sparse Sparse Very sparse Moderate Moderate Dense	Algae Algae Algae	Moderate Moderate Moderate				567234.925128 567235.750366 567218.995244 567190.536501 567239.104196 567266.711556 567249.881236 567253.711668 567254.905085	8219306.693515 8219284.738425 8219253.693418 8219225.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979	3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 243 Sand 245 Sand 245 Sand 246 Sand 247 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Sparse Sparse Very sparse Moderate Moderate Dense Moderate	Algae Algae Algae	Moderate Moderate Moderate				567234.925128 567235.750366 567218.99524 567190.536501 567239.104196 567266.711556 5672649.881236 567254.905085 567254.905085	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219198.604259	3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Sparse Sparse Very sparse Moderate Moderate Dense Moderate Moderate Moderate	Algae Algae Algae Algae Algae	Moderate Moderate Moderate Moderate				567234.925128 567235.750366 567218.995244 567190.536501 567239.104196 567266.711556 567249.881236 567254.905085 567254.912825 567258.312825	8219306.693515 8219284.738425 8219253.693418 8219225.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505081 8219187.128979 8219188.604259 8219215.528327	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Sparse Sparse Very sparse Moderate Moderate Dense Moderate Moderate Moderate Moderate Moderate	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate				567234.925128 567235.750366 567218.995244 567190.536501 567229.104196 567266.711556 567249.881236 567253.711668 567254.905085 567258.312825 567262.076402 567268.178697	8219306.693515 8219284.738425 8219253.693418 8219225.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219198.604259 8219215.528327 8219238.699568	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 247 Sand 248 Sand 249 Sand 250 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Sparse Sparse Very sparse Moderate Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567109.536501 567239.104196 567266.711556 567249.881236 567253.711668 567254.90508 567258.312823 567262.076402 567268.178693 567278.925309	8219306.693515 8219284.738425 8219225.8693418 8219225.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219198.604259 8219218.528327 8219238.699568 8219284.753264	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand 250 Sand 251 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae	Sparse Sparse Very sparse Moderate Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.95524 567190.536501 567239.104196 567266.711556 567249.881236 567253.711666 567254.905085 567258.312825 567262.076402 567268.178697 567278.925305	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219238.699568 8219284.753264 8219322.451949	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand 250 Sand 251 Sand 252 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.99524 567190.536501 567249.81236 567249.881236 567254.905085 567254.905085 567256.076402 567268.178697 567278.925305 567286.832042 567292.182462	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219238.699564 8219284.753264 8219322.451949 8219357.609433	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand 250 Sand 251 Sand 251 Sand 252 Sand 253 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Moderate Moderate Sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567266.711556 567249.881236 567253.711666 567254.905085 567258.312825 567262.076402 567268.178697 567278.925303 567286.832043 567292.182462	8219306.693515 8219284.738425 8219253.693418 8219225.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219188.604259 8219215.528327 8219238.699568 8219284.753264 8219327.609433 8219399.050642	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand 250 Sand 251 Sand 252 Sand 253 Sand 253 Sand 254 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Very sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567266.711556 567249.881236 567253.711668 567253.711668 567258.312825 567262.076402 567268.178697 567278.925305 567286.832043 567292.182462 567292.182462	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219215.528327 8219238.699568 8219322.451949 8219357.609432 8219399.050642 8219342.291033 8219472.630118	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 247 Sand 248 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 254 Sand 255 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567239.104196 567267.711556 567249.881236 567253.71166 567254.905085 567258.312825 567262.076402 567268.32042 567278.925305 567286.832042 567292.182462 567298.224496 567303.968912	8219306.693515 8219284.738425 8219225.893418 8219225.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219198.604259 8219215.528327 8219284.753264 8219322.45194 8219357.609433 8219399.050642 8219442.291033	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 250 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 255 Sand 255 Sand 256 Sand 257 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Very sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.99524 567190.536501 567239.104196 567266.711556 567249.881236 567253.711668 567254.905085 567258.312823 567262.076402 567268.178697 567278.925308 567286.832043 567292.182462 567299.324496 567303.968913 567312.390576	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219238.699568 8219284.753264 8219322.451949 8219357.609433 8219399.050642 8219442.29103 8219512.64791 8219554.404209	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 255 Sand 255 Sand 256 Sand 257 Sand 257 Sand 258 Rocky	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.99524 567190.536501 567249.81236 567249.881236 567254.905085 567254.905085 567258.312823 567258.312823 567262.076402 567268.178693 567278.925303 567278.925303 567298.224496 567303.968913 567312.390576 567342.573154	8219306.693515 8219284.738425 8219253.693418 8219225.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219188.604259 8219215.528327 8219238.699568 8219284.753264 8219322.451949 8219357.609433 8219472.630118 8219472.630118 8219472.630118 8219554.404209 8219554.404209	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand 250 Sand 251 Sand 252 Sand 253 Sand 253 Sand 254 Sand 255 Sand 256 Sand 257 Sand 257 Sand 258 Rocky 259 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567249.881236 567249.881236 567253.711666 567253.812825 567262.076402 567268.178697 567278.925303 567286.832043 567292.182462 567292.182462 567303.968915 567312.390570 567342.573154 567370.133548	8219306.693515 8219284.738425 8219253.693418 8219225.873206 8219174.2029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219188.604259 8219215.528327 8219238.699568 8219284.753264 8219322.451949 8219357.609433 8219376.609433 82193472.630118 8219501.26479 8219551.26479 8219551.26479	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 250 Sand 251 Sand 252 Sand 253 Sand 253 Sand 254 Sand 255 Sand 257 Sand 258 Rocky 259 Sand 260 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567266.711556 567249.881236 567253.711668 567253.711668 567253.812825 567262.076402 567268.178697 567278.925309 567286.832043 567292.182462 567292.182462 567303.968913 567312.390576 567342.573154 567370.133548 567415.751633	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219215.528327 8219238.699568 8219284.753264 8219387.609433 8219399.050642 8219342.2451949 8219357.609433 8219372.630118 8219501.264791 8219554.404209 8219554.404209 82195582.834920 8219559.099169 8219569.0095480	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 255 Sand 257 Sand 258 Sand 257 Sand 258 Sand 259 Sand 259 Sand 250 Sand 251 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567235.750366 567239.104196 567266.711556 567249.881236 567253.711668 567253.711668 567254.905085 567268.178697 567268.178697 567278.925308 567268.24449 567303.968913 567312.390576 567342.573154 567370.133548 567415.751633 567432.934856	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219215.528327 8219238.699568 8219284.753264 8219357.609433 8219399.050642 8219442.291033 8219354.404209 8219554.404209 82195582.834920 82195582.83490 8219599.099169 8219500.005480 8219592.062224	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 255 Sand 257 Sand 258 Rocky 259 Sand 260 Sand 261 Sand 261 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567249.81236 567249.881236 567254.905085 567254.905085 567258.312825 567258.312825 567262.076402 567268.178697 567278.925305 567278.925305 567286.832042 567292.182462 567292.182462 567393.968913 567312.390576 567342.573154 567370.133548 567415.751635 567449.427992 567462.011047	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219186.604259 8219215.528327 8219238.699568 8219284.753264 8219322.451949 8219357.609433 8219399.050642 8219442.2910318 821957.609433 8219399.050642 8219442.91038 8219554.404209 8219554.404209 8219554.906224 8219559.099168	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand 250 Sand 251 Sand 251 Sand 252 Sand 253 Sand 254 Sand 255 Sand 257 Sand 258 Rocky 259 Sand 260 Sand 260 Sand 261 Sand 261 Sand 263 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567249.881236 567249.881236 567254.905085 567254.905085 567255.311666 567256.312825 567262.076402 567268.178697 567278.925303 567278.925303 567292.182462 567292.182462 567303.968913 567312.573154 567312.573154 567312.573154 567415.75163 567429.9427992 567446.011047	8219306.693515 8219284.738425 8219253.693418 8219225.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219188.604259 8219215.528327 8219238.699568 8219284.753264 8219322.451949 8219357.609433 8219472.630118 8219472.630118 8219551.264791 8219554.404209 8219582.834920 8219599.099169 8219600.005480 8219592.062224 8219581.357932 8219561.378118	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 250 Sand 251 Sand 252 Sand 253 Sand 253 Sand 254 Sand 255 Sand 256 Sand 257 Sand 258 Rocky 259 Sand 260 Sand 261 Sand 262 Sand 263 Sand 264 Rocky	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567266.711556 567249.881236 567253.711666 567253.711666 567253.812825 567262.076402 567268.178697 567268.832043 567292.182462 567292.182462 567303.968913 567312.390570 567342.573154 567370.133548 567415.751633 567432.934856 567478.16888 567478.176888	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219215.528327 8219238.699568 8219284.753264 8219392.451949 8219357.609433 8219399.050642 8219542.2451949 8219554.40420 8219554.40420 8219554.40420 8219559.099169 8219500.005480 8219592.062224 8219581.357932 8219551.378118 821954.354934	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 254 Sand 255 Sand 256 Sand 257 Sand 258 Sand 258 Sand 259 Sand 259 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 255 Sand 256 Sand 257 Sand 258 Sand 258 Sand 259 Sand 260 Sand 261 Sand 262 Sand 263 Sand 263 Sand 264 Rocky 265 Rocky	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567239.104196 567266.711556 567249.881236 567253.711668 567253.711668 567253.711668 567258.312825 567262.076402 567268.178697 567278.925303 567286.832045 567298.224496 567303.968913 567312.390570 567342.573154 567370.133548 567415.751633 567429.34856 567449.427992 567462.011047 567478.176886 567478.134615	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219215.528327 8219238.699568 8219284.753264 8219357.609433 8219399.050642 8219472.630118 8219554.404209 8219554.8442.91033 8219578.263791 8219554.84920 8219558.387932 8219560.005480 8219592.062224 8219561.378118 8219501.586865	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 254 Sand 255 Sand 256 Sand 257 Sand 258 Rocky 259 Sand 261 Sand 263 Sand 264 Rocky 265 Rocky 266 Rocky	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse Very sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.99524 567190.536501 567293.104196 567266.711556 567249.881236 567253.711668 567253.711668 567258.312823 567258.312823 567258.312823 567262.076402 567268.178697 567278.925303 567286.832043 567292.182462 567292.182462 567298.224496 567303.968913 567312.390576 567342.573154 567370.133544 567415.751633 567429.234856 567489.34856 567489.134613 567489.134613 567489.134613	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219238.699564 8219322.451949 8219357.609433 8219399.050642 8219442.291038 8219554.404209 82195582.834920 8219599.099169 8219554.904088 8219591.264791 8219554.404209 8219554.36488888219581.357932 8219561.378118 8219561.378118 8219561.378118 8219561.378118 8219561.378118 8219561.378118	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand 250 Sand 251 Sand 251 Sand 252 Sand 253 Sand 254 Sand 255 Sand 256 Sand 267 Sand 268 Rocky 269 Sand 260 Sand 261 Sand 262 Sand 263 Sand 264 Rocky 265 Rocky 266 Rocky 266 Rocky 266 Rocky	Hard coral Algae	Sparse Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse Very sparse Very sparse Sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.99524 567190.536501 567249.81236 567266.711556 567249.881236 567253.711668 567253.91263 567268.312823 567258.312823 567268.378693 567278.925303 567278.925303 567286.832043 567292.182462 567298.224496 567303.968913 567312.390576 567342.573154 567370.133548 567415.751633 567429.394856 567429.394856 567429.394856 567429.394856 567429.394856 567429.394856 567429.394856 567429.394856 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866 567429.394866	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219186.604259 8219215.528327 8219238.699568 8219284.753264 8219322.451949 8219357.609433 8219399.050642 8219442.291033 8219472.630118 8219554.404209 82195582.834920 8219559.099162 8219560.005480 8219599.099163 8219572.062224 8219541.357932 8219561.378118 8219544.35493 8219554.3586865 8219505.180372 8219478.537067	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 255 Sand 256 Sand 257 Sand 258 Rocky 259 Sand 261 Sand 262 Sand 263 Sand 264 Rocky 265 Rocky 266 Rocky 266 Rocky 267 Sand 268 Sand 268 Sand	Hard coral Algae	Sparse Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse Very sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.99524 567190.536501 567239.104196 567266.711556 567249.881236 567253.711668 567254.905085 567254.912825 567268.178697 567268.178697 567298.224496 567298.224496 567303.968913 567312.390570 567342.573154 567478.751633 567489.27324 567498.427992 567462.011047 567478.176886 567489.134615 567498.134615 5675342.04148 567516.589872	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219172.029560 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219215.528327 8219238.699568 8219284.753264 8219337.609433 8219399.050642 8219342.2451949 8219357.609433 8219472.630118 8219501.264791 8219554.404209 8219582.834920 8219590.09548 8219592.06224 8219551.378118 8219551.378118 8219550.5180372 8219550.5180372 8219550.5180372 8219550.5180372 8219570.672676 8219473.015502	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 254 Sand 255 Sand 256 Sand 257 Sand 258 Sand 258 Sand 268 Sand 260 Sand 261 Sand 262 Sand 263 Sand 263 Sand 264 Rocky 265 Rocky 265 Rocky 265 Rocky 266 Rocky 266 Rocky 267 Sand 268 Sand 268 Sand 268 Sand 268 Sand 268 Sand 269 Sand	Hard coral Algae Algae Algae Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse Very sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567266.711556 567249.881236 567253.711666 567253.711666 567254.905085 567258.312825 567262.076402 567268.178697 567278.925309 567278.925309 567303.968915 567303.968915 567303.968915 567370.133548 567415.751635 567432.934856 567449.427992 567462.011047 567478.176888 567489.134615 567499.124095 567516.589872	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219238.699568 8219382.451949 8219387.609433 8219399.050642 8219342.2451949 8219357.609433 8219399.050642 8219542.630118 8219501.264791 8219554.404209 8219554.404209 8219554.90438 8219590.09548 8219590.36865 8219505.180372 8219544.354934 8219530.586865 8219505.180372 8219478.537067 8219478.015502 821944.789553	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 254 Sand 255 Sand 256 Sand 257 Sand 258 Sand 258 Sand 259 Sand 260 Sand 261 Sand 262 Sand 263 Sand 263 Sand 264 Rocky 265 Rocky 266 Rocky 267 Sand 268 Sand 268 Sand 268 Sand 268 Sand 268 Sand 269 Sand 269 Sand 269 Sand 269 Sand 268 Sand 269 Sand	Hard coral Algae Algae Algae Algae Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Sparse Very sparse Very sparse Very sparse Very sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567235.750366 567218.995244 567190.536501 567291.04196 567266.711556 567249.881236 567253.711668 567253.711668 567258.312823 567262.076402 567268.178697 567278.925303 567286.832043 567292.182462 567292.182462 567303.968913 567312.390576 567342.573154 567370.133548 567415.751633 567452.73154 567478.176886 567489.134615 567496.124093 567511.298273 567516.589872 567516.589872 567516.589872 567516.589872	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 82192215.528327 8219238.699568 8219284.753264 8219357.609433 8219399.050642 8219442.291033 8219357.609433 8219359.099169 8219554.404209 8219554.404209 8219552.83492 8219542.9543 8219578.283492 8219561.37813 8219578.38793 8219578.38793 8219578.38793 8219578.38793 8219578.38793 8219578.38793 8219578.38793 8219578.38793 8219578.38793 8219578.38793 8219578.38793 8219578.38793 8219578.38793 8219578.38793 8219478.537067 8219478.537067	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 255 Sand 256 Sand 257 Sand 258 Rocky 259 Sand 261 Sand 263 Sand 264 Rocky 265 Rocky 266 Rocky 266 Rocky 267 Sand 268 Sand 268 Sand 268 Sand 268 Sand 269 Sand 268 Sand 269 Sand 268 Sand 269 Sand 270 Sand 270 Sand 270 Sand	Hard coral Algae	Sparse Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567249.81236 567266.711556 567249.881236 567253.711668 567253.912825 567253.2056 567262.07640 567268.178697 567278.925305 567286.832045 567292.182462 567292.182462 567303.968913 567312.390576 567342.573154 567370.133548 567415.75163 567449.427992 567462.011047 567478.176888 567489.134615 567496.124093 567511.298275 567534.204148 567511.298275 567511.298275 567511.570182	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219238.699564 8219322.451949 8219322.451949 8219357.609433 8219399.050642 8219442.291038 8219554.404209 8219552.834920 8219599.099169 8219554.94040 8219581.357932 8219561.378118 821954.354934 821954.354934 8219530.586865 8219505.180372 8219478.537067 8219478.015067 8219478.015067 8219478.015067 8219478.015067 8219478.015067	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 249 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 255 Sand 257 Sand 258 Rocky 259 Sand 260 Sand 261 Sand 262 Sand 263 Sand 264 Rocky 265 Rocky 265 Rocky 265 Rocky 265 Rocky 266 Rocky 267 Sand 268 Sand 269 Sand 269 Sand 269 Sand 269 Sand 260 Sand 261 Sand 262 Sand 263 Sand 263 Sand 264 Rocky 265 Rocky 265 Rocky 266 Rocky 267 Sand 268 Sand 269 Sand 269 Sand 270 Sand 271 Sand 272 Sand	Hard coral Algae	Sparse Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Moderate Moderate Sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567249.81236 567266.711556 567249.881236 567253.711668 567253.312823 567253.312823 567262.076402 567268.312823 567278.925303 567286.832043 567292.182462 567292.182462 567303.968913 567312.390576 567342.573154 567312.390576 567342.573154 567432.934856 567449.427992 567462.011047 567478.176886 567489.134619 567511.298273 567534.204148 567516.589872 567515.589873 567472.729544 567472.729544	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219154.593412 8219168.809081 8219165.205087 8219187.128979 821918.604259 8219215.528327 8219215.528327 8219238.699568 8219284.753264 8219322.451949 8219357.609432 8219372.630118 8219501.264791 8219554.404209 8219560.005480 8219590.99169 8219600.005480 8219592.06224 8219581.357932 8219544.354934 8219551.586372 8219478.537067 8219473.015502 8219454.789553 8219448.643011 8219502.5889	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
238 Sand 239 Sand 240 Sand 241 Sand 242 Sand 243 Sand 244 Sand 245 Sand 246 Sand 247 Sand 248 Sand 250 Sand 251 Sand 252 Sand 253 Sand 254 Sand 255 Sand 256 Sand 257 Sand 258 Rocky 259 Sand 261 Sand 263 Sand 264 Rocky 265 Rocky 266 Rocky 266 Rocky 267 Sand 268 Sand 268 Sand 268 Sand 268 Sand 269 Sand 268 Sand 269 Sand 268 Sand 269 Sand 270 Sand 270 Sand 270 Sand	Hard coral Algae	Sparse Sparse Sparse Very sparse Moderate Dense Moderate Moderate Moderate Moderate Sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Moderate Moderate Moderate Moderate Sparse Sparse				567234.925128 567235.750366 567218.995244 567190.536501 567249.81236 567266.711556 567249.881236 567253.711668 567253.312823 567253.312823 567262.076402 567268.312823 567278.925303 567286.832043 567292.182462 567292.182462 567303.968913 567312.390576 567342.573154 567312.390576 567342.573154 567432.934856 567449.427992 567462.011047 567478.176886 567489.134619 567511.298273 567534.204148 567516.589872 567515.589873 567472.729544 567472.729544	8219306.693515 8219284.738425 8219253.693418 8219252.873206 8219154.593412 8219168.809081 8219162.505087 8219187.128979 8219215.528327 8219238.699564 8219322.451949 8219322.451949 8219357.609433 8219399.050642 8219442.291038 8219554.404209 8219552.834920 8219599.099169 8219554.94040 8219581.357932 8219561.378118 821954.354934 821954.354934 8219530.586865 8219505.180372 8219478.537067 8219478.015067 8219478.015067 8219478.015067 8219478.015067 8219478.015067	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

274 Sand								
						567362 891991	8219413.453789	3
275 Sand							8219408.130944	3
276 Sand							8219435.742337	3
277 Sand						567313.403352	8219486.206070	3
278 Sand						567336.638373	8219507.210641	3
279 Sand						567364.561944	8219522.098182	3
280 Sand						567387.491577	8219532.970573	3
281 Sand							8219542.082281	3
282 Sand							8219546.062436	3
283 Sand							8219549.234115	3
284 Sand	Hard coral	Very sparse					8219528.854339	3
285 Sand						567467.091615	8219522.688639	3
286 Sand	Algae	Very sparse				567443.893661	8219521.422838	3
287 Sand	Algae	Very sparse				567419.204063	8219513.234704	3
288 Sand	_					567390.744492	8219504.359271	3
289 Sand							8219496.691923	3
290 Sand							8219498.070449	3
291 Sand							8219492.984804	3
292 Sand							8219477.119857	3
293 Sand							8219470.244862	3
294 Sand	Algae	Very sparse				567370.182777	8219464.572260	3
295 Sand						567391.299576	8219461.379057	3
296 Sand						567409.036040	8219456.145938	3
297 Sand						567426.257029	8219448.438351	3
298 Sand	Algae	Sparse					8219450.349276	3
299 Sand	Algue	Sparse					8219459.761500	3
	Algon	Voncenarea						3
300 Sand	Algae	Very sparse					8219468.327882	
301 Sand	Algae	Very sparse					8219489.859673	3
302 Sand							8219515.004580	3
303 Sand	Algae	Very sparse				567463.627107	8219509.385880	3
304 Sand						567451.138866	8219498.020651	3
305 Sand						567436.148895	8219486.865943	3
306 Sand	Algae	Very sparse					8219474.823875	3
307 Sand	Algue	very sparse					8219441.509807	3
308 Sand							8219424.502983	3
309 Sand						567357.491967	8219398.444088	3
310 Sand						567326.804736	8219377.901065	3
311 Sand						567320.038183	8219364.246976	3
313 Sand	Algae	Sparse				567275.962518	8219310.570887	3
314 Sand	Algae	Sparse				567309.402308	8219314.967716	3
315 Sand		Very sparse	Algae	Sparse			8219316.221096	3
316 Sand	riara corar	very sparse	, ugue	Spa. 3c			8219319.343685	3
	Algon	Voncenarea						
317 Sand	Algae	Very sparse					8219317.579408	3
318 Sand	Algae	Sparse					8219311.804941	3
319 Sand	Algae	Very sparse					8219299.083861	3
320 Sand	Hard coral	Moderate				567489.006496	8219293.593123	3
321 Sand	Hard coral	Moderate				567508.673964	8219289.213221	3
322 Sand	Hard coral	Moderate				567530 781126	8219287.054862	2
								3
323 Sand	Hard coral	Moderate						
323 Sand 324 Sand		Moderate Moderate				567563.744698	8219281.985224	3
324 Sand	Hard coral	Moderate	Algao	Sparce		567563.744698 567589.069336	8219281.985224 8219276.435676	3
324 Sand 325 Sand	Hard coral Hard coral	Moderate Sparse	Algae	Sparse		567563.744698 567589.069336 567627.221345	8219281.985224 8219276.435676 8219266.709484	3 3 3
324 Sand 325 Sand 326 Sand	Hard coral Hard coral Hard coral	Moderate Sparse Dense				567563.744698 567589.069336 567627.221345 567665.584928	8219281.985224 8219276.435676 8219266.709484 8219257.412116	3 3 3 3
324 Sand 325 Sand	Hard coral Hard coral	Moderate Sparse Dense	Algae Algae	Sparse Sparse		567563.744698 567589.069336 567627.221345 567665.584928 567710.734893	8219281.985224 8219276.435676 8219266.709484 8219257.412116 8219254.264895	3 3 3 3
324 Sand 325 Sand 326 Sand	Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse	Algae			567563.744698 567589.069336 567627.221345 567665.584928 567710.734893 567743.002599	8219281.985224 8219276.435676 8219266.709484 8219257.412116 8219254.264895 8219271.629466	3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand	Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate	Algae			567563.744698 567589.069336 567627.221345 567665.584928 567710.734893 567743.002599	8219281.985224 8219276.435676 8219266.709484 8219257.412116 8219254.264895	3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse		Sparse		567563.744698 567589.069336 567627.221345 567665.584928 567710.734893 567743.002599 567758.515154	8219281.985224 8219276.435676 8219266.709484 8219257.412116 8219254.264895 8219271.629466	3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Sparse	Algae Algae	Sparse Sparse		567563.744698 567589.069336 567627.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.871831	8219281.985224 8219276.435676 8219266.709484 8219257.412116 8219254.264895 8219271.629466 8219299.740842	3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Sparse Moderate	Algae Algae Algae	Sparse Sparse Sparse		567563.744698 567589.069336 567627.221345 567665.584928 567710.73489 5677743.002599 567758.515154 567766.871831 567757.775710	8219281.985224 8219276.435676 8219266.709484 8219257.412116 8219254.264895 8219271.629466 8219299.740842 8219324.429987 8219347.460001	3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Sparse Moderate Moderate	Algae Algae Algae Algae	Sparse Sparse Sparse Sparse		567563.744698 567589.069336 567627.221345 567665.584928 567710.73489 567743.002599 567758.515154 567766.871831 567757.775710 567745.407564	8219281.985224 8219276.435676 8219266.709484 8219257.412116 8219254.264895 8219271.629466 8219299.740842 8219324.429987 8219347.460001 8219357.230827	3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Sparse	Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Sparse		567563.744698 567589.069336 567627.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.87183 567757.775710 567755.407564 567714.538806	8219281.985224 8219276.435676 82192567.09484 8219257.412116 8219254.264895 8219271.629466 8219299.740842 8219324.429987 8219347.460001 8219357.230827 8219377.606238	3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Moderate Sparse	Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Moderate		567563.744698 567589.069336 567627.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.871831 567757.77571 567745.407564 567744.538806 567686.194777	8219281.985224 8219276.435676 8219266.709484 8219257.412116 8219254.264895 8219271.629466 8219299.740842 8219324.429987 8219347.460001 8219357.230827 8219377.606238 8219383.192892	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Sparse	Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Sparse	count while	567563.744698 567589.069336 567627.221345 567665.58499 567701.734893 567743.002599 567758.515154 567766.871831 567757.775710 567745.40756 567714.538806 567686.194777 567667.866592	8219281.985224 8219276.435676 8219266.709484 8219257.412116 8219254.264895 8219271.629466 8219297.40842 8219324.429987 8219347.460001 8219357.230827 8219377.606238 8219383.192892 8219390.727143	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Moderate Sparse	Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Moderate	coral rubble	567563.744698 567589.069336 567627.221345 567665.58492 567701.0734893 567743.002599 567758.515154 567766.871831 567757.775710 567745.40756 567745.40756 567688.194777 567667.866592 567649.565009	8219281.985224 8219276.435676 8219257.412116 8219254.264895 8219271.629466 8219297.40842 8219324.429987 8219374.60001 8219377.606238 8219383.192892 8219390.727143 8219404.033944	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble 337 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Moderate Sparse	Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Moderate	coral rubble	567563.744698 567589.069336 567627.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.871831 567757.775710 567745.407564 567714.538806 567686.194777 56766.866592 567649.565009 567622.675864	8219281.985224 8219276.435676 8219257.412116 8219257.412116 8219257.40842 8219271.629466 8219299.740842 8219324.429987 8219347.460001 8219357.230827 8219383.192892 8219390.727143 8219404.033944 8219419.090815	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble 337 Sand 338 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Moderate Sparse	Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Moderate	coral rubble	567563.744698 567589.069336 567667.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.87183 567745.407564 567714.538806 567686.194777 567667.866599 567622.675864 567611.970548	8219281.985224 8219276.435676 8219257.412116 8219257.422116 8219257.422116 8219271.629466 8219299.740842 8219324.42998 8219347.460001 8219357.230827 8219383.192892 8219390.727143 8219410.039344 8219419.090815 8219428.858412	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble 337 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Moderate Sparse	Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Moderate	coral rubble	567563.744698 567589.069336 567667.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.87183 567745.407564 567714.538806 567686.194777 567667.866599 567622.675864 567611.970548	8219281.985224 8219276.435676 8219257.412116 8219257.412116 8219257.40842 8219271.629466 8219299.740842 8219324.429987 8219347.460001 8219357.230827 8219383.192892 8219390.727143 8219404.033944 8219419.090815	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble 337 Sand 338 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Moderate Sparse	Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Moderate	coral rubble	567563.744698 567589.069336 567627.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.871831 567757.775710 567745.407564 567714.538806 567686.194777 567667.866592 567649.56500 567622.675864 567611.970548 567598.545905	8219281.985224 8219276.435676 8219257.412116 8219257.422116 8219257.422116 8219271.629466 8219299.740842 8219324.42998 8219347.460001 8219357.230827 8219383.192892 8219390.727143 8219410.039344 8219419.090815 8219428.858412	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble 337 Sand 338 Sand 338 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Moderate Sparse	Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Moderate	coral rubble	567563.744698 567589.069336 567627.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.871831 567757.77571 567645.407564 567744.538806 567686.194777 567667.866592 567649.565009 567622.67586 567511.970548 567598.545905 567586.231721	8219281.985224 8219276.435676 8219256.7014214 8219257.412116 8219257.412116 8219257.40666 8219299.740842 8219324.429987 8219347.460001 8219357.230827 8219383.192892 8219390.727143 8219404.03394 8219419.090815 8219428.858412 8219435.922101	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble 337 Sand 338 Sand 338 Sand 339 Sand	Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Moderate Moderate Sparse Moderate	Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Moderate	coral rubble	567563.744698 567589.069336 567627.22134 567665.584928 567710.734893 567743.002599 567758.515154 567766.871831 567757.775710 567745.407564 567714.538806 567686.194777 567667.866592 567649.565009 567622.675864 567611.970548 567598.545905 567598.545905 567586.231721 567566.550016	8219281.985224 8219276.435676 82192567.09484 8219254.264895 8219271.629466 8219297.40842 8219324.429987 8219347.46001 8219357.230827 8219377.606238 8219383.192892 8219390.727143 8219404.033944 8219419.090815 8219428.858412 8219438.5922101 8219441.232822	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 335 Sand 336 Coral rubble 337 Sand 338 Sand 339 Sand 340 Sand 341 Sand 341 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Moderate Sparse	Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Moderate	coral rubble	567563.744698 567589.069336 5676627.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.871831 567757.775710 567745.407564 567714.538806 567686.194777 567667.866592 567649.565009 567622.675864 567611.970548 567598.54590 567586.231721 567566.550016 567536.835925	8219281.985224 8219276.435676 8219257.412116 8219257.412116 8219257.4066 8219299.740842 8219324.429987 8219327.606238 8219383.192892 8219397.7606238 8219383.192892 8219390.727143 8219404.033944 8219419.090815 8219428.858412 8219428.858412 8219428.222 8219441.232822 8219447.396206	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble 337 Sand 338 Sand 339 Sand 340 Sand 340 Sand 341 Sand 341 Sand	Hard coral Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Moderate Moderate Sparse Moderate	Algae Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Moderate	coral rubble	567563.744698 567589.069336 567667.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.87183 567741.538806 567686.194777 567667.86659 567649.565009 567622.675864 567598.545905 567586.23172 567566.550016 567536.835925 567515.420871	8219281.985224 8219276.435676 8219257.412116 8219257.412116 8219257.422116 8219271.629466 8219299.740842 8219324.429987 8219347.460001 8219357.230827 8219397.7606238 8219383.192892 8219390.727143 8219404.033944 8219419.090815 8219428.858412 8219442.86218 8219441.232822 82193441.232822 82193441.336206 8219447.396206 8219457.349460	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble 337 Sand 338 Sand 340 Sand 341 Sand 341 Sand 342 Sand 343 Sand 343 Sand 345 Sand 345 Sand 351 Sand 365 Sand 375 Sand	Hard coral Algae	Moderate Sparse Dense Sparse Moderate Sparse Moderate Sparse Moderate Sparse Moderate Sparse Moderate Sparse Very sparse Very sparse Very sparse	Algae Algae Algae Algae Algae Hard coral	Sparse Sparse Sparse Sparse Moderate Very sparse	coral rubble	567563.744698 567589.069336 567627.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.871831 567757.775710 567745.407564 567714.538806 567686.194777 567667.866592 567649.565009 567622.675864 567611.970548 567598.545905 567586.231721 567566.550016 567536.835925 567515.420871 567464.51375 567445.196945 567420.411191 567410.827090 567387.008176 567377.185767 567364.676092 567381.0622104 567347.011231 567394.077167 567423.114182 567423.114191 567443.11795 567340.543650 567310.622104 567347.011231 567394.077167 567423.114195 567480.460953 567541.710596	8219281.985224 8219276.435676 8219257.412116 8219257.412116 8219257.402466 8219299.740842 8219377.606238 8219377.606238 8219383.192892 8219399.727143 821940.035944 8219419.090815 8219428.858412 8219428.858412 8219424.61374 8219447.396206 8219441.232822 82194441.232822 8219444.23592101 8219446.610369 8219414.142945 8219493.381268 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble 337 Sand 338 Sand 340 Sand 341 Sand 341 Sand 342 Sand 343 Sand 343 Sand 345 Sand 345 Sand 355 Sand 365 Sand 375 Sand 386 Sand 375 Sand 387 Sand 388 Sand 389 Sand 389 Sand 389 Sand 389 Sand 389 Sand 389 Sand 385 Sand 355 Sand 355 Sand 355 Sand 355 Sand 357 Sand 358 Sand 357 Sand 358 Sand 359 Sand 359 Sand 350 Sand 351 Sand 351 Sand 352 Sand 353 Sand 353 Sand 354 Sand 355 Sand 356 Sand 357 Sand 358 Sand 359 Sand 359 Sand 359 Sand 350 Sand 350 Sand 351 Sand 355 Sand 356 Sand 357 Sand 358 Sand 359 Sand 359 Sand 350 Sand 350 Sand 351 Sand	Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Sparse Moderate Sparse Moderate Sparse Woderate Sparse Very sparse Very sparse Very sparse Very sparse	Algae Algae Algae Algae Hard coral	Sparse Sparse Sparse Sparse Moderate Very sparse Sparse Very sparse	coral rubble	567563.744698 567589.069336 567627.221345 567665.584928 567710.734893 567743.002599 567758.515154 567766.871831 567757.775710 567745.407564 567714.538806 567686.194777 567667.866592 567649.565009 567622.675864 567611.970548 567598.545905 567586.231721 567566.550016 567536.83592 567445.196945 567445.196945 567449.905683 567420.411191 567410.827090 567387.008176 567377.1857692 567340.543650 567317.512498 567310.622104 567450.069591 567450.069591 567450.069591 567451.710596 567593.137772	8219281.985224 8219276.435676 8219266.709484 8219257.421116 8219254.264895 8219271.629466 8219299.740842 8219337.460001 8219357.230827 8219377.606238 8219383.192892 8219390.727143 8219404.033944 8219419.090815 8219428.858412 8219442.161374 8219447.396206 8219441.34260 8219444.34506 821945.349460 821945.349460 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 8219379.547483 8219379.780563 8219380.455836 8219379.547483 8219379.780563 8219380.455836 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble 337 Sand 338 Sand 340 Sand 341 Sand 342 Sand 343 Sand 342 Sand 343 Sand 343 Sand 345 Sand 355 Sand 355 Sand 356 Sand 357 Sand 358 Sand 359 Sand 359 Sand 359 Sand 359 Sand 350 Sand 351 Sand 352 Sand 353 Sand 354 Sand 355 Sand 356 Sand 357 Sand 357 Sand 358 Sand 359 Sand 360 Sand 361 Sand 361 Sand 361 Sand 361 Sand 363 Sand	Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Sparse Moderate Moderate Sparse Woderate Woderate Sparse Very sparse Very sparse Very sparse Very sparse Very sparse Very sparse Sparse Sparse	Algae Algae Algae Algae Algae Hard coral Algae Algae Algae Algae Algae	Sparse Sparse Sparse Sparse Sparse Moderate Very sparse Sparse Very sparse	coral rubble	567563.744698 567589.069336 567627.22134 567672.22134 567743.002599 567758.515154 567766.871831 567745.407564 567714.538806 567686.194777 56767.866592 567649.565009 56762.675864 567611.970548 567598.545905 567586.231721 567566.550016 567536.835925 567515.420871 567464.513757 567457.157343 567445.196945 567377.185767 567364.676092 567387.008176 567377.185767 567374.011231 567340.543650 567317.512498 567310.622104 567347.01123 567480.460953 567541.710595 567593.137772 567679.139094	8219281.985224 8219276.435676 8219266.709484 8219257.412116 8219257.422116 8219297.40842 8219371.60238 8219377.606238 8219387.450001 8219357.230827 8219377.606238 8219380.727143 8219404.03944 8219419.090815 8219428.858412 8219441.232822 8219441.132822 8219447.396206 8219457.349460 8219457.349460 8219457.349460 821947.396206 821947.396206 821947.396206 821947.396206 821947.396206 821947.396206 821947.396206 821947.396206 821947.396206 821947.396206 821947.396206 821947.396206 821947.396206 821947.396206 821947.396206 8219379.780563 8219379.780563 8219379.780563 8219379.780563 8219379.780563 8219379.547483 8219380.455836 8219377.175323 8219360.498892 8219346.669365 8219325.694275 8219333.534154 8219354.284461 8219354.284461 8219354.284461 8219354.2840315 8219342.430315 8219344.6681298 8219344.533880	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
324 Sand 325 Sand 326 Sand 327 Sand 328 Sand 329 Sand 330 Sand 331 Sand 332 Sand 333 Sand 334 Sand 335 Sand 336 Coral rubble 337 Sand 338 Sand 340 Sand 341 Sand 341 Sand 342 Sand 343 Sand 343 Sand 345 Sand 345 Sand 355 Sand 365 Sand 375 Sand 386 Sand 375 Sand 387 Sand 388 Sand 389 Sand 389 Sand 389 Sand 389 Sand 389 Sand 389 Sand 385 Sand 355 Sand 355 Sand 355 Sand 355 Sand 357 Sand 358 Sand 357 Sand 358 Sand 359 Sand 359 Sand 350 Sand 351 Sand 351 Sand 352 Sand 353 Sand 353 Sand 354 Sand 355 Sand 356 Sand 357 Sand 358 Sand 359 Sand 359 Sand 359 Sand 350 Sand 350 Sand 351 Sand 355 Sand 356 Sand 357 Sand 358 Sand 359 Sand 359 Sand 350 Sand 350 Sand 351 Sand	Hard coral	Moderate Sparse Dense Sparse Moderate Sparse Moderate Moderate Sparse Moderate Moderate Sparse Woderate Very sparse Moderate	Algae Algae Algae Algae Hard coral	Sparse Sparse Sparse Sparse Moderate Very sparse Sparse Very sparse	coral rubble	567563.744698 567589.069336 567627.22134 567627.22134 567743.002599 567758.515154 567766.871831 567745.407564 567714.538806 567686.19477 567667.866592 567649.565009 56762.675864 567611.970548 567598.54590 567586.231721 567566.550016 567536.835925 567515.420871 567464.513757 567457.157343 567445.196945 567377.185767 567377.185767 567377.185767 567377.185767 567377.185767 567377.185767 567377.185767 567377.185767 567377.185767 567374.513498 567310.622104 567347.011231 567394.077162 567450.069591 567480.460953 567541.710596 567591.37772 567679.139094 567692.222533	8219281.985224 8219276.435676 8219266.709484 8219257.421116 8219254.264895 8219271.629466 8219299.740842 8219337.460001 8219357.230827 8219377.606238 8219383.192892 8219390.727143 8219404.033944 8219419.090815 8219428.858412 8219442.161374 8219447.396206 8219441.34260 8219444.34506 821945.349460 821945.349460 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 821947.396260 8219379.547483 8219379.780563 8219380.455836 8219379.547483 8219379.780563 8219380.455836 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483 8219379.547483	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

200 0							
366 Sand	Hard coral	Snarse	Algae	Sparse	567652 743527	8219358.246853	3
			Algue	Sparse			
367 Sand	Hard coral	Sparse			56/638.655134	8219359.232138	3
368 Sand					566543.343361	8219291.504839	2
369 Sand					566558 075102	8219291.670681	2
370 Sand						8219293.564339	2
371 Rocky	Hard coral	Dense			566579.999694	8219293.973673	2
372 Rocky	Hard coral	Moderate			566578.713565	8219295.382441	2
373 Rocky	Hard coral	Moderate			566585 133122	8219298.777693	2
374 Rocky	Hard coral					8219291.853060	2
375 Rocky	Hard coral	Moderate			566625.160494	8219290.201766	2
376 Rocky	Hard coral	Dense			566636.314667	8219293.224980	2
377 Rocky	Hard coral					8219307.894698	2
378 Rocky	Hard coral	Moderate			566618.817487	8219306.294223	2
379 Rocky	Hard coral	Moderate	Algae	Sparse	566603.415628	8219303.790867	2
380 Rocky						8219295.062478	2
=		Moderate	Algae	Sparse			
381 Rocky	Hard coral	Moderate			566572.319519	8219280.976651	2
382 Sand					566563.756689	8219273.749356	2
383 Sand					566556 375301	8219271.750910	2
384 Sand						8219271.397092	2
385 Sand					566545.052775	8219263.731670	2
386 Sand					566560.137523	8219248.589994	2
387 Sand						8219250.374362	2
388 Sand					566586.698797	8219254.094536	2
389 Sand					566595.486649	8219259.707927	2
390 Sand					566596 321494	8219268.794843	2
391 Sand						8219275.582359	2
392 Sand					566608.892423	8219281.779010	2
393 Sand					566618 180575	8219281.870815	2
						8219281.337982	
394 Sand		_					2
395 Rocky	Hard coral	Dense			566631.605358	8219284.852143	2
396 Sand					567201.949458	8219158.746058	3
397 Sand						8219157.908016	3
398 Sand					567227.314211	8219153.489837	3
399 Sand					567243.465560	8219154.570872	3
400 Sand	Hard coral	Snarco				8219150.989226	3
		-					
401 Sand	Hard coral	Moderate	Algae	Sparse	567273.351917	8219148.098827	3
402 Sand	Hard coral	Moderate	Algae	Very sparse	567293.483719	8219141.715376	3
403 Sand	Hard coral	Moderate			567316 835424	8219136.229275	3
				v.			
404 Sand	Algae	Sparse	Soft coral	Very sparse		8219128.824012	3
405 Sand					567373.689002	8219129.881291	3
406 Sand					567387.430638	8219132.105315	3
407 Sand						8219133.524992	3
408 Sand					567411.446413	8219136.340707	3
409 Sand	Algae	Very sparse			567421.909395	8219140.610200	3
410 Sand							
		Danca	Λίσορ	Snarca	567//8 683387	8210150 0232/3	
	Hard coral	Dense	Algae	Sparse		8219150.923243	3
411 Sand	Hard coral	Dense Dense	Algae	Sparse	567429.719236	8219148.632235	3
			Algae	Sparse	567429.719236		3
411 Sand 412 Sand	Hard coral Hard coral	Dense Dense	Algae	Sparse	567429.719236 567432.337295	8219148.632235 8219150.314971	3 3 3
411 Sand 412 Sand 413 Sand	Hard coral Hard coral Hard coral	Dense Dense Dense	Algae	Sparse	567429.719236 567432.337295 567462.449493	8219148.632235 8219150.314971 8219164.705293	3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand	Hard coral Hard coral Hard coral Hard coral	Dense Dense Dense Dense	Algae	Sparse	567429.719236 567432.337295 567462.449493 567486.440024	8219148.632235 8219150.314971 8219164.705293 8219172.325779	3 3 3 3
411 Sand 412 Sand 413 Sand	Hard coral Hard coral Hard coral	Dense Dense Dense Dense	Algae	Sparse	567429.719236 567432.337295 567462.449493 567486.440024	8219148.632235 8219150.314971 8219164.705293	3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral	Dense Dense Dense Dense Dense			567429.719236 567432.337295 567462.449493 567486.440024 567505.349166	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275	3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral	Dense Dense Dense Dense Dense Dense	Algae	Sparse	567429.719236 567432.337295 567462.449493 567486.440024 567505.349166 567517.450822	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515	3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Dense Dense Dense Dense Dense Dense Dense Dense			567429.719236 567432.337295 567462.449493 567486.440024 567505.349166 567517.450822 567533.662799	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515 8219190.146490	3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral	Dense Dense Dense Dense Dense Dense	Algae	Sparse	567429.719236 567432.337295 567462.449493 567486.440024 567505.349166 567517.450822 567533.662799	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515	3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Dense Dense Dense Dense Dense Dense Dense Dense	Algae	Sparse	567429.719236 567432.337295 567462.449493 567486.440024 567505.349166 567517.450822 567533.662799 567548.166319	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515 8219190.146490	3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand 418 Sand 419 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Dense Dense Dense Dense Dense Dense Dense Dense Dense Moderate	Algae	Sparse	567429.719236 567432.337295 567462.449493 567486.440024 567505.349166 567517.450822 567533.662799 567548.166319 567558.861577	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515 8219190.146490 8219196.741238 8219204.096329	3 3 3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand 418 Sand 419 Sand 420 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Dense Dense Dense Dense Dense Dense Dense Dense Dense Moderate Sparse	Algae	Sparse	567429.719236 567432.337295 567462.449493 567486.440024 567505.34916 567517.450822 567533.662799 567548.166319 567558.861577 567575.953219	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515 8219190.146490 8219196.741238 8219204.096329 8219211.274984	3 3 3 3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand 418 Sand 419 Sand 420 Sand 421 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Dense Dense Dense Dense Dense Dense Dense Dense Moderate Sparse Moderate	Algae	Sparse	567429.719236 567432.337295 567462.449495 367486.440024 567505.349166 567517.450822 567533.662799 567558.861577 567575.953219 567586.388194	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515 8219196.741238 8219196.741238 8219204.096329 8219211.274984 8219213.966234	3 3 3 3 3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand 418 Sand 419 Sand 420 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Dense Dense Dense Dense Dense Dense Dense Dense Dense Moderate Sparse	Algae	Sparse	567429.719236 567432.337295 567462.449495 367486.440024 567505.349166 567517.450822 567533.662799 567558.861577 567575.953219 567586.388194	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515 8219190.146490 8219196.741238 8219204.096329 8219211.274984	3 3 3 3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand 418 Sand 419 Sand 420 Sand 421 Sand 421 Sand	Hard coral Hard coral	Dense Dense Dense Dense Dense Dense Dense Dense Moderate Sparse Moderate Dense	Algae	Sparse	567429.719236 567432.337295 567486.2449493 567486.440024 567505.349166 567517.450822 567533.662799 567548.166319 567558.861577 567575.953219 567586.388194 567597.738847	8219148.632235 8219150.314971 8219164.70529 8219172.325779 8219179.932275 8219182.699515 8219196.741238 8219204.096329 8219211.274984 8219213.966234 8219216.488744	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand 418 Sand 419 Sand 420 Sand 421 Sand 421 Sand 422 Sand 423 Sand	Hard coral Hard coral	Dense Moderate Sparse Moderate Dense	Algae Algae	Sparse Sparse	567429.719236 567482.439295 567462.449493 567486.440024 567505.349166 567517.450822 567533.662799 567548.166319 567558.861577 567575.953219 567558.388194 567597.738847 567616.194209	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515 8219190.146490 8219196.741238 8219204.096329 8219211.274984 8219213.966234 8219216.488744 8219219.658670	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand 418 Sand 419 Sand 420 Sand 421 Sand 422 Sand 423 Sand 424 Sand	Hard coral Hard coral	Dense Dense Dense Dense Dense Dense Dense Dense Moderate Sparse Moderate Dense Moderate Dense	Algae Algae Algae	Sparse Sparse Very sparse	567429.719236 567422.337295 567462.449493 567462.449493 567505.349166 567517.450822 567533.662799 567548.166319 567575.953219 567566.388194 567597.73847 567616.194209 567628.111574	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515 8219190.146490 8219196.741238 8219204.096329 8219211.274984 8219213.966234 8219216.488744 8219219.658670 8219228.582630	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand 418 Sand 419 Sand 420 Sand 421 Sand 421 Sand 422 Sand 423 Sand	Hard coral Hard coral	Dense Moderate Sparse Moderate Dense	Algae Algae	Sparse Sparse	567429.719236 567432.337295 567436.440493 567486.440024 567505.349166 567517.450822 567533.662799 567548.166319 567575.953219 567575.953219 567586.388194 567597.738847 567616.194209 567628.111574 567636.450605	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515 8219190.146490 8219196.741238 8219204.096329 8219211.274984 8219213.966234 8219216.488744 8219219.658670 8219228.582630 8219228.582630	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand 418 Sand 419 Sand 420 Sand 421 Sand 422 Sand 423 Sand 424 Sand	Hard coral Hard coral	Dense Dense Dense Dense Dense Dense Dense Dense Moderate Sparse Moderate Dense Moderate Dense	Algae Algae Algae	Sparse Sparse Very sparse	567429.719236 567432.337295 567436.440493 567486.440024 567505.349166 567517.450822 567533.662799 567548.166319 567575.953219 567575.953219 567586.388194 567597.738847 567616.194209 567628.111574 567636.450605	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515 8219190.146490 8219196.741238 8219204.096329 8219211.274984 8219213.966234 8219216.488744 8219219.658670 8219228.582630	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand 418 Sand 419 Sand 420 Sand 421 Sand 422 Sand 423 Sand 424 Sand 424 Sand 425 Sand	Hard coral Hard coral	Dense Dense Dense Dense Dense Dense Dense Dense Dense Moderate Sparse Moderate Dense Dense Moderate Dense Moderate	Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Sparse	567429.719236 567432.337295 567486.2449493 567505.349166 567517.450822 567533.662799 5675548.166319 567558.38194 567575.93219 567568.388194 567575.738847 567616.194209 567628.111574 567636.450605 567627.473719	8219148.632235 8219150.314971 8219164.705293 8219172.325779 8219179.932275 8219182.699515 8219190.146490 8219196.741238 8219204.096329 8219211.274984 8219213.966234 8219216.488744 8219219.658670 8219228.582630 8219228.582630	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
411 Sand 412 Sand 413 Sand 414 Sand 415 Sand 416 Sand 417 Sand 418 Sand 419 Sand 420 Sand 420 Sand 421 Sand 422 Sand 423 Sand 424 Sand 425 Sand 426 Sand 427 Sand	Hard coral Hard coral	Dense Dense Dense Dense Dense Dense Dense Dense Moderate Sparse Moderate Dense Moderate Sparse Moderate Dense Moderate	Algae Algae Algae Algae Algae Hard coral	Sparse Sparse Very sparse Sparse Very sparse Very sparse Very sparse Very sparse	567429.719236 567482.439439 567486.440024 567505.349166 567517.450822 567533.662799 567548.166319 567558.681577 567575.953219 567566.388194 567567.38847 567616.194209 567636.450605 567627.473719 567601.971901	8219148.632235 8219150.314971 8219164.70529 8219172.325779 8219179.932275 8219182.699515 8219190.146490 8219196.741238 8219204.096329 8219211.274984 8219213.966234 8219216.488744 8219219.658670 8219228.582630 8219228.582630 8219258.638924 8219279.292017 8219328.864261	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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457 Sand	Hard coral	Dense	Algae	Very sparse	567384.006977	8219161.972705	3
458 Sand	Hard coral	Dense	_		567361.244204	8219160.705431	3
459 Sand	Hard coral		Algae	Sparse		8219160.909188	3
460 Sand	Hard coral					8219170.093240	3
461 Sand	Hard coral	•				8219179.780727	3
462 Sand	Hard coral	Moderate				8219195.412286	3
			Algan	Conses		8219209.004388	3
463 Sand	Hard coral	Sparse	Algae	Sparse		8219243.051046	3
464 Sand	Algae	Moderate	naru corai	Very sparse			
465 Sand	Algae	Sparse				8219276.115894	3
466 Sand	Algae	Sparse		Very sparse		8219273.346153	3
467 Sand	Algae	Moderate		Very sparse		8219264.613023	3
468 Sand	Algae	Moderate	Hard coral	Very sparse	567363.458506	8219253.824208	3
469 Sand	Algae	Moderate	Hard coral	Sparse	567389.656810	8219244.850278	3
470 Sand	Hard coral	Sparse	Algae	Sparse	567411.864766	8219240.696819	3
471 Sand					567435.542035	8219236.754622	3
472 Sand	Hard coral	Sparse			567458.281059	8219233.709468	3
473 Sand	Hard coral	Sparse			567474.354145	8219232.480318	3
474 Sand	Algae	Very sparse	Hard coral	Very sparse	567489.726027	8219229.267743	3
475 Sand	Algae	Very sparse			567525.680152	8219223.558527	3
476 Sand	Hard coral	Very sparse			567543.503563	8219224.682164	3
477 Sand					567558.779346	8219230.225494	3
478 Sand	Algae	Sparse			567573.843322	8219246.385617	3
479 Sand	Algae	Moderate				8219271.453396	3
480 Sand	Hard coral	Sparse	Algae	Moderate		8219295.313105	3
481 Sand	Algae	Sparse	-	Very sparse		8219320.079620	3
482 Sand	Algae	Sparse	riara corar	very spurse		8219344.406275	3
483 Sand	Algae	Sparse				8219351.478319	3
	Aigac	Sparse					
484 Sand						8219347.649197	3
485 Sand						8219341.827457	
486 Sand						8219336.863376	3
487 Sand						8219333.088077	3
488 Sand						8219321.876625	3
489 Sand						8219310.398201	3
490 Sand	Hard coral	Sparse			567436.884029	8219296.228439	3
491 Sand	Hard coral	Dense			567427.594743	8219289.353972	3
492 Sand	Hard coral	Dense			567421.111518	8219284.438167	3
493 Sand	Hard coral	Dense			567412.032888	8219278.844403	3
494 Sand	Hard coral	Moderate	Algae	Sparse	567399.506563	8219272.451830	3
495 Sand	Hard coral		Algae	Sparse		8219266.691692	3
496 Sand			0			8219255.737612	3
497 Sand	Algae	Moderate	Hard coral	Sparse		8219243.263050	3
498 Sand	_	Very sparse	Algae	Moderate		8219225.870640	3
499 Sand	Algae	Sparse	, ugue	model dec		8219209.491402	3
	Aigac		Head sead	Versioner			3
	Λίσορ	Vary charca					
500 Sand	Algae	Very sparse		Very sparse		8219193.514511	
500 Sand 501 Sand	Hard coral	Moderate	Algae	Sparse	567342.612936	8219181.035649	3
500 Sand 501 Sand 502 Sand	Hard coral Hard coral	Moderate Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553	8219181.035649 8219168.265286	3
500 Sand 501 Sand 502 Sand 503 Sand	Hard coral	Moderate	Algae	Sparse	567342.612936 567339.260553 567335.062200	8219181.035649 8219168.265286 8219151.585221	3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand	Hard coral Hard coral	Moderate Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862	8219181.035649 8219168.265286 8219151.585221 8219119.413254	3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand	Hard coral Hard coral	Moderate Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827	3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand	Hard coral Hard coral	Moderate Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542	8219181.035649 8219168.265286 8219151.585221 8219119.413254	3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand	Hard coral Hard coral	Moderate Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827	3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand	Hard coral Hard coral	Moderate Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342	3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand	Hard coral Hard coral	Moderate Dense Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338 567343.917284	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416	3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand	Hard coral Hard coral Hard coral	Moderate Dense Dense Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338 567343.917284 567357.421186	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417	3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 508 Sand	Hard coral Hard coral Hard coral	Moderate Dense Dense Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.67852 567225.436297 567248.150338 567343.917284 567357.421186 567324.198936	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417 8219160.724539	3 3 3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Dense Dense Dense Dense Dense Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062205 567340.296862 567351.678542 567225.436297 567248.150338 567343.91728 567357.421186 567357.421186 567354.198936 567351.467008	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417 8219160.724539 8219146.974063	3 3 3 3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand 511 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Dense Dense Dense Dense Dense Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338 567343.917284 567324.198936 567324.198936 567351.467008 567369.901740	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417 8219160.724539 8219146.974063 8219156.266164	3 3 3 3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand 511 Sand 512 Silt 513 Sand	Hard coral	Moderate Dense Dense Dense Dense Dense Dense Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338 567343.917284 567357.421186 567324.198936 567351.467008 567369.901740 567400.567273	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417 8219160.724539 8219146.974063 8219156.266164 8219159.159857 8219169.717345	3 3 3 3 3 3 3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand 511 Sand 512 Silt 513 Sand 514 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Dense Dense Dense Dense Dense Dense Dense Dense Dense Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567351.678542 56725.436297 567248.150338 567343.917284 567357.421186 567357.421186 567351.467008 567369.901740 567400.567273 567415.082703	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417 8219160.724539 8219156.266164 8219159.159857 8219169.717345 8219171.452178	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand 511 Sand 511 Sand 512 Silt 513 Sand 514 Sand 515 Sand	Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral Hard coral	Moderate Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338 567343.917284 567357.421186 567324.198936 567359.901740 567400.567273 567415.082703 567428.264977	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417 8219160.724539 8219146.974063 8219156.266164 8219159.159857 8219169.717345 8219171.452178	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand 511 Sand 512 Silt 513 Sand 514 Sand 515 Sand 516 Sand	Hard coral Hard coral	Moderate Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338 567343.917284 567357.421186 567357.421186 567357.421186 567357.45700 567457.567457.5674570 567415.082703 567428.264977 567440.689503	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417 8219160.724539 8219156.266164 8219159.159857 8219169.717345 8219171.452178	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand 511 Sand 512 Silt 513 Sand 514 Sand 515 Sand 516 Sand	Hard coral	Moderate Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338 567343.917284 567357.421186 567357.421186 567357.42186 567357.45708 567457.85708 567458.264977 567440.689503 567458.452458	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219126.141416 8219126.982417 8219160.724539 8219146.974063 8219156.266164 8219159.159857 8219171.452178 8219171.452178 8219171.452178 8219171.831443 8219177.228855	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand 511 Sand 512 Silt 513 Sand 514 Sand 515 Sand 516 Sand 517 Sand 517 Sand 518 Sand 518 Sand	Hard coral	Moderate Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338 567343.917284 567357.421186 567351.467008 567369.901740 567400.567273 567415.082703 567428.264977 567440.689503 567458.452458 567470.433423	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219126.141416 8219156.982417 8219160.724539 8219146.974063 8219156.266164 8219159.159857 8219169.717345 8219171.452178 8219170.877285 8219171.381443 8219177.228855 8219180.114493	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 509 Sand 510 Sand 511 Sand 511 Sand 512 Silt 513 Sand 514 Sand 515 Sand 517 Sand 517 Sand 517 Sand 517 Sand 518 Sand	Hard coral Hard coral	Moderate Dense	Algae Algae	Sparse Sparse	567342.612936 567339.260553 567339.260583 567351.678542 567252.436297 567248.150338 567343.917284 567357.421186 567324.198936 567351.467008 567369.901740 567400.567273 567415.082703 567428.264977 567440.689503 567458.452458 567470.433423 567483.546039	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417 8219160.724539 8219146.974063 8219156.266164 8219159.159857 8219169.717345 8219171.381443 8219171.381443 8219177.228855 8219171.381443 8219177.28855 8219185.319813	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand 511 Sand 511 Sand 512 Silt 513 Sand 514 Sand 515 Sand 516 Sand 517 Sand 518 Sand 518 Sand 519 Sand 519 Sand	Hard coral Hard coral	Moderate Dense Moderate	Algae Algae Algae	Sparse Sparse Very sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338 567343.917284 567351.467008 567369.901740 567405.567273 567415.082703 567428.264977 567440.689503 567479.433423 567483.546039 567495.347651	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417 8219160.724539 8219146.974063 8219156.266164 8219159.159857 8219169.717345 8219171.381443 8219171.28855 8219171.381443 8219177.228855 8219180.114493 8219180.114493 8219180.114493 8219185.319813 8219190.781659	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand 511 Sand 511 Sand 512 Silt 513 Sand 514 Sand 515 Sand 516 Sand 517 Sand 518 Sand 519 Sand 519 Sand 519 Sand 519 Sand	Hard coral	Moderate Dense	Algae Algae Algae	Sparse Sparse Very sparse Very sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338 567343.917284 567357.421186 567357.421186 567357.421186 567357.421186 567415.082703 567415.082703 567440.689503 567448.254977 567440.689503 567457.434243 567483.546039 567495.347651 567508.447802	8219181.035649 8219151.585221 8219151.585221 8219119.413254 8219123.288342 8219126.141416 8219156.982417 8219160.724539 8219160.724539 8219156.266164 8219159.159857 8219169.717345 8219171.452178 8219171.452178 8219171.28855 8219171.381443 8219177.228855 8219180.114493 8219180.114493 8219190.781659 8219190.781659	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand 511 Sand 511 Sand 512 Silt 513 Sand 514 Sand 515 Sand 516 Sand 517 Sand 518 Sand 519 Sand 520 Sand 521 Sand 522 Sand 523 Sand 524 Sand 524 Sand	Hard coral	Dense Sparse Moderate Sparse Sparse Sparse	Algae Algae Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Very sparse Very sparse Very sparse Sparse Sparse	567342.612936 567339.260553 567335.062200 567340.296862 567351.678542 567225.436297 567248.150338 567343.917284 567351.467008 567369.901740 567400.567273 567415.082703 567428.264977 567440.689503 567458.452458 567470.433423 567483.546039 567495.347651 567508.447802 567521.985719 567542.398626 567573.810262 567594.060500	8219181.035649 8219168.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417 8219160.724539 8219146.974063 8219156.266164 8219159.159857 8219169.717345 8219171.381443 8219177.228855 8219180.114493 8219180.114493 8219180.114493 8219180.11493 8219190.781659 8219190.781659 8219190.781659 82192106.786592 8219217.120819 8219230.902242 8219239.328707	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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500 Sand 501 Sand 502 Sand 503 Sand 504 Sand 505 Sand 506 Sand 507 Sand 508 Sand 509 Sand 510 Sand 511 Sand 512 Silt 513 Sand 514 Sand 515 Sand 516 Sand 517 Sand 518 Sand 519 Sand 520 Sand 521 Sand 521 Sand 522 Sand 523 Sand 524 Sand 524 Sand 525 Sand 526 Sand 527 Sand 528 Sand 528 Sand	Hard coral	Moderate Dense Sparse Sparse Sparse Sparse Sparse Sparse Sparse Sparse Sparse	Algae Algae Algae Algae Algae Algae Algae Algae	Sparse Sparse Very sparse Very sparse Very sparse Very sparse Very sparse Very sparse Very sparse Sparse Sparse Very sparse Sparse Sparse Sparse Sparse Sparse	567342.612936 567339.260553 567339.260553 567339.269682 567351.678542 567225.436297 567248.150338 567351.467008 567361.90740.567273 567415.082703 567428.264977 567440.689503 567458.452458 567458.452458 567458.452458 567458.452658 567573.810262 567573.810262 567573.810262 567573.810262 567639.405479 567666.824052	8219181.035649 8219158.265286 8219151.585221 8219119.413254 8219116.354827 8219123.288342 8219126.141416 8219156.982417 8219160.724539 8219156.266164 8219156.266164 8219159.159857 8219169.717345 8219171.452178 8219171.381443 8219177.228855 8219181.314493 8219185.319813 8219199.781659 8219199.478934 8219206.786592 8219217.120819 8219239.328707 8219239.328707 8219246.683603 8219256.965654 8219266.438514	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
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548 Sand	Hard coral	Dense			567448.054773	8219172.140682	3
549 Sand	Hard coral	Dense			567444.713596	8219154.880880	3
550 Sand						8219127.216632	3
551 Sand						8219095.403102	3
552 Sand					567455.947831	8219092.479547	3
553 Sand					567543.469342	8219172.689805	3
554 Sand	Hard coral	Dense			567502.532770	8219162.362969	3
555 Sand		Moderate				8219198.346546	3
556 Sand	Hard coral	Sparse	Algae	Sparse	56/511.933/8/	8219201.710273	3
557 Sand	Hard coral	Dense			567510.947481	8219171.765967	3
558 Sand	Hard coral	Dense			567509.440282	8219160.890857	3
559 Sand	Hard coral	Dense			567506 399189	8219147.942568	3
	riaru corai	Delise					
560 Sand						8219132.821099	3
561 Sand					567500.652559	8219101.172450	3
562 Sand					567518.965050	8219101.984888	3
563 Sand					567518 547027	8219118.562906	3
							3
564 Sand						8219134.471709	
565 Sand					567482.227701	8219154.600349	3
566 Sand	Hard coral	Dense			567476.544128	8219154.735720	3
567 Sand	Hard coral	Dense			567460.290685	8219160.493510	3
568 Sand						8219129.167574	3
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569 Sand	Hard coral	Sparse	Algae	Sparse		8219255.316944	3
570 Sand	Hard coral	Moderate	Algae	Sparse	567729.850078	8219240.105536	3
571 Sand	Hard coral	Dense	Algae	Sparse	567715.261605	8219223.284150	3
572 Sand	Hard coral	Dense			567706.291866	8219211.362508	3
573 Sand		Dense				8219205.946661	3
574 Sand		Dense				8219201.468046	3
575 Sand	Hard coral	Dense			567682.804807	8219193.622550	3
576 Sand	Hard coral	Moderate			567673.902702	8219187.460500	3
577 Sand						8219182.487365	3
578 Sand						8219185.804239	3
579 Sand					567632.224328	8219188.686976	3
580 Sand					567620.194217	8219187.204646	3
581 Sand					567607 114209	8219189.744750	3
	Hard caral	Madarata					3
582 Sand	Hard coral					8219191.392924	
583 Sand	Hard coral	Dense			567587.340799	8219194.442210	3
584 Sand	Hard coral	Dense			567573.463962	8219184.724079	3
585 Sand	Hard coral	Moderate			567560.103168	8219182.309102	3
586 Sand	Hard coral					8219179.193343	3
587 Sand		Dense				8219177.885477	3
588 Sand	Hard coral	Dense			567534.517179	8219162.394262	3
589 Sand	Hard coral	Dense			567531.118764	8219153.235911	3
590 Sand						8219128.858724	3
	Algon	Cnarca					
591 Sand	Algae	Sparse				8219294.173188	3
592 Sand	Hard coral	Sparse	Algae	Sparse	567822.053559	8219283.134963	3
593 Sand	Hard coral	Moderate	Algae	Sparse	567816.331173	8219279.902043	3
594 Sand	Hard coral	Moderate			567805.348712	8219267.844810	3
						8219257.692973	
595 Sand	Hard coral						3
596 Sand	Hard coral	Dense			567795.013012	8219248.753596	3
597 Sand	Hard coral	Dense			567788.197007	8219237.632968	3
598 Sand	Hard coral	Dense			567779.783687	8219232.236479	3
599 Sand	Hard coral					8219229.049906	3
600 Sand	Hard coral	Dense				8219206.975139	3
601 Sand					567743.140647	8219203.321606	3
602 Sand	Hard coral	Dense			567739.155254	8219202.146526	3
603 Sand	Hard coral	Dense			567725 456417	8219190.068033	3
604 Sand	Hard coral					8219180.904603	3
605 Sand	Hard coral	Dense			567699.941239	8219183.999324	3
606 Sand	Hard coral	Dense			567690.263009	8219192.130170	3
607 Sand	Hard coral	Dense			567672.271404	8219192.544859	3
608 Sand						8219188.392104	3
609 Sand					56/654.529519	8219176.728632	3
610 Sand					567645.640468	8219171.938292	3
611 Sand					567641.648721	8219166.364011	3
612 Sand						8219161.266952	3
613 Sand	Algae	Very sparse				8219161.310681	3
	, _B uc	.c., sparse					
614 Sand						8219159.758772	3
615 Sand						8219158.631492	3
616 Sand					567587.790387	8219157.870941	3
617 Sand	Hard coral	Moderate				8219157.048270	3
618 Sand	Hard coral					8219156.882739	3
		JC113C					
619 Sand	Hard - '	Donce					3
620 Sand	Hard coral				567568.903242		2
621 Sand		Dense Dense				8219159.393901	3
		Dense			567561.838643		3
	Hard coral Hard coral	Dense Dense			567561.838643 567553.756201	8219159.393901 8219153.756603	3
622 Sand	Hard coral	Dense			567561.838643 567553.756201 567540.913902	8219159.393901 8219153.756603 8219141.950083	3
622 Sand 623 Sand	Hard coral Hard coral	Dense Dense			567561.838643 567553.756201 567540.913902 567532.882625	8219159.393901 8219153.756603 8219141.950083 8219137.866924	3 3 3
622 Sand 623 Sand 624 Sand	Hard coral Hard coral	Dense Dense			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219136.883397	3 3 3 3
622 Sand 623 Sand	Hard coral Hard coral	Dense Dense			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244	8219159.393901 8219153.756603 8219141.950083 8219137.866924	3 3 3
622 Sand 623 Sand 624 Sand 625 Sand	Hard coral Hard coral	Dense Dense			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219136.883397 8219135.718970	3 3 3 3
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand	Hard coral Hard coral	Dense Dense			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485 567498.736801	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219136.883397 8219135.718970 8219136.249272	3 3 3 3 3
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand	Hard coral Hard coral	Dense Dense			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485 567498.736801 567484.372939	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219136.883397 8219135.718970 8219136.249272 8219138.619939	3 3 3 3 3 3
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand	Hard coral Hard coral Algae	Dense Dense			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485 567498.736801 567484.372939 567470.312629	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219136.883397 8219135.718970 8219136.249272 8219138.619939 8219142.337364	3 3 3 3 3 3 3
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand	Hard coral Hard coral	Dense Dense			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485 567498.736801 567484.372939 567470.312629	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219136.883397 8219135.718970 8219136.249272 8219138.619939	3 3 3 3 3 3
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand 629 Sand	Hard coral Hard coral Algae	Dense Dense Sparse Very sparse			567561.838643 567553.756201 567540.913902 567532.882625 567519.289245 567519.289245 567498.736801 567484.372939 567470.312629 567457.030357	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219136.883397 8219135.718970 8219136.249272 8219138.619939 8219142.337364	3 3 3 3 3 3 3 3
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand 629 Sand 630 Rocky	Hard coral Hard coral Algae Algae Hard coral	Dense Dense Sparse Very sparse Dense			567561.838643 567553.756201 567540.911300 567532.882625 567519.289244 567513.587485 567498.736801 567484.37293 567470.312629 567457.030357 566819.296504	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219136.883397 8219135.718970 8219136.249272 8219138.619939 8219142.337364 8219143.443608 8219160.456502	3 3 3 3 3 3 3 3 3
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand 629 Sand 630 Rocky 631 Rocky	Hard coral Hard coral Algae Algae Hard coral Hard coral	Dense Dense Sparse Very sparse Dense Dense			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485 567498.736801 567484.372939 567470.312629 567457.030357 566819.296504 566815.415632	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219135.718970 8219136.249272 8219138.619939 8219142.337364 8219143.443608 8219160.456502 8219161.991131	3 3 3 3 3 3 3 3 2 2
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand 629 Sand 630 Rocky 631 Rocky 632 Rocky	Hard coral Hard coral Algae Algae Hard coral Hard coral Hard coral	Dense Dense Sparse Very sparse Dense Dense Dense			567561.838643 567553.756201 567540.913902 567542.882625 567519.289244 567513.587485 567498.736801 567484.372939 567457.030357 566819.295504 566815.415632 566806.411709	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219135.718970 8219136.249272 8219138.619939 8219142.337364 8219143.443608 8219160.456502 8219161.991131 8219164.509256	3 3 3 3 3 3 3 3 2 2 2
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand 629 Sand 630 Rocky 631 Rocky	Hard coral Hard coral Algae Algae Hard coral Hard coral	Dense Dense Sparse Very sparse Dense Dense			567561.838643 567553.756201 567540.913902 567542.882625 567519.289244 567513.587485 567498.736801 567484.372939 567457.030357 566819.295504 566815.415632 566806.411709	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219135.718970 8219136.249272 8219138.619939 8219142.337364 8219143.443608 8219160.456502 8219161.991131	3 3 3 3 3 3 3 2 2 2 2
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand 629 Sand 630 Rocky 631 Rocky 632 Rocky	Hard coral Hard coral Algae Algae Hard coral Hard coral Hard coral	Dense Dense Sparse Very sparse Dense Dense Dense			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485 567488.736801 567484.372939 567470.312629 567457.030357 566815.415632 566815.415632 566806.411709	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219135.718970 8219136.249272 8219138.619939 8219142.337364 8219143.443608 8219160.456502 8219161.991131 8219164.509256	3 3 3 3 3 3 3 3 2 2 2
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand 629 Sand 630 Rocky 631 Rocky 632 Rocky 633 Sand 634 Rocky	Algae Algae Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae	Dense Dense Sparse Very sparse Dense Dense Dense Moderate Moderate			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485 567498.736801 567484.372939 567470.312629 567457.030357 566819.296504 566815.415632 566806.411709 566789.082117	8219159.393901 8219153.756603 82191141.950083 8219137.866924 8219135.718970 8219135.718970 8219136.249272 8219138.619939 8219142.337364 8219160.456502 8219161.99113 8219164.509256 8219164.509256 8219164.5092578 8219173.211947	3 3 3 3 3 3 3 3 2 2 2 2 2
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand 629 Sand 630 Rocky 631 Rocky 632 Rocky 633 Sand 634 Rocky 635 Sand	Algae Hard coral Algae Algae Hard coral Hard coral Hard coral Algae Algae Algae Algae	Dense Dense Sparse Very sparse Dense Dense Dense Moderate Moderate Very sparse			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485 567498.736801 567484.37293 5667457.030357 566819.296504 566815.415632 566789.082117 566761.152056 566752.989509	8219159.393901 8219153.756603 8219137.866924 8219137.866924 8219135.718970 8219136.249272 8219138.619939 8219142.337364 8219160.456502 8219161.991131 8219164.50925 8219164.50925 8219173.211947 8219170.496932	3 3 3 3 3 3 3 3 2 2 2 2 2 2 2
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand 629 Sand 630 Rocky 631 Rocky 632 Rocky 633 Sand 634 Rocky 635 Sand 636 Sand	Algae Algae Hard coral Hard coral Hard coral Hard coral Hard coral Algae Algae	Dense Dense Sparse Very sparse Dense Dense Dense Moderate Moderate			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485 567498.736801 567484.372939 567477.312629 567457.030357 566819.296504 566815.415632 566806.411709 566761.152056 566752.989509 566743.747241	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219136.883397 8219136.249272 8219136.249272 8219138.619939 8219142.337364 8219161.456502 8219161.991131 8219164.509256 8219168.125578 8219178.121947 8219170.496932 8219173.176052	3 3 3 3 3 3 3 2 2 2 2 2 2 2
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand 629 Sand 630 Rocky 631 Rocky 632 Rocky 633 Sand 634 Rocky 635 Sand	Algae Hard coral Algae Algae Hard coral Hard coral Hard coral Algae Algae Algae Algae	Dense Dense Sparse Very sparse Dense Dense Dense Moderate Moderate Very sparse			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485 567498.736801 567484.372939 567477.312629 567457.030357 566819.296504 566815.415632 566806.411709 566761.152056 566752.989509 566743.747241	8219159.393901 8219153.756603 8219137.866924 8219137.866924 8219135.718970 8219136.249272 8219138.619939 8219142.337364 8219160.456502 8219161.991131 8219164.50925 8219164.50925 8219173.211947 8219170.496932	3 3 3 3 3 3 3 3 2 2 2 2 2 2 2
622 Sand 623 Sand 624 Sand 625 Sand 626 Sand 627 Sand 628 Sand 629 Sand 630 Rocky 631 Rocky 632 Rocky 633 Sand 634 Rocky 635 Sand 636 Sand	Algae Hard coral Algae Algae Hard coral Hard coral Hard coral Algae Algae Algae Algae	Dense Dense Sparse Very sparse Dense Dense Dense Moderate Moderate Very sparse			567561.838643 567553.756201 567540.913902 567532.882625 567519.289244 567513.587485 567498.736801 567484.372939 567457.030357 566819.295504 566815.415632 566806.411709 566789.082117 566761.152056 566752.989509 566743.747241 566739.862780	8219159.393901 8219153.756603 8219141.950083 8219137.866924 8219136.883397 8219136.249272 8219136.249272 8219138.619939 8219142.337364 8219161.456502 8219161.991131 8219164.509256 8219168.125578 8219178.121947 8219170.496932 8219173.176052	3 3 3 3 3 3 3 2 2 2 2 2 2 2

639 Sand								FCC730 0F340F	0240477 045007	2
									8219177.945987	2
640 Sand									8219186.017610	2
641 Sand									8219178.822072	2
642 Sand									8219169.320554	2
643 Sand								566703.097261	8219173.208550	2
644 Sand								566695.443700	8219179.055892	2
645 Sand								566677.957940	8219192.938324	2
646 Sand								566666.309432	8219202.097936	2
647 Sand								566657.619824	8219209.554350	2
648 Sand									8219217.321159	2
649 Sand									8219220.224546	2
650 Sand									8219229.042243	2
651 Sand								566628.213428	8219236.962987	2
652 Sand								566625.864326	8219238.754848	2
653 Sand								566620.853601	8219242.715486	2
654 Sand								566612.481103	8219236.547686	2
655 Sand								566606.648139	8219239.139138	2
656 Sand								566603.484404	8219243.835359	2
657 Sand									8219251.072421	2
658 Sand									8219257.506293	2
659 Sand									8219260.327135	2
660 Sand									8219264.835062	2
661 Sand								566587.046521	8219265.966917	2
662 Sand								566584.850664	8219269.518936	2
663 Sand								566566.734970	8219270.755408	2
664 Sand								566559.872242	8219272.324763	2
665 Sand								566548.345613	8219273.469470	2
666 Sand									8219274.810098	2
667 Sand									8219278.415710	2
668 Sand									8219280.416791	2
669 Sand									8219282.181026	2
670 Sand									8219283.486613	2
671 Sand								566493.785873	8219284.725504	2
672 Sand	Algae	Very sparse	Hard coral	Very sparse				566485.685678	8219284.948951	2
673 Sand	Algae	Moderate	Soft coral	Very sparse				566475.745472	8219283.149986	2
674 Sand	Ü							566463.252973	8219287.326637	2
675 Sand									8219292.240195	2
676 Sand									8219301.633809	2
	Usual second									
677 Sand	Hard coral	Very sparse							8219306.443789	1
678 Sand									8219316.742983	1
679 Sand	Algae	Sparse						566573.000000	8219249.000000	2
680 Sand	Algae	Sparse						566825.000000	8219111.000000	2
681 Rocky	Algae	Dense	Hard coral	Sparse				566763.000000	8219243.000000	2
682 Rocky	Algae	Dense	Sponges	Sparse	Hard Coral	Moderate		566744.000000	8219244.000000	2
683 Rocky	Hard coral	Sparse		•			Branching porites		8219265.000000	2
684 Sand	Algae	Sparse							8219282.000000	2
685 Sand	Hard coral	Moderate	ΛΙσορ	Sparce			Porites		8219282.000000	2
			Algae	Sparse		•				
686 Sand	Algae	Sparse	Hard coral	Sparse	Soft Coral	Sparse	Caulerpa, Turf Algae		8219280.000000	2
687 Rocky	Hard coral	Moderate	Algae	Sparse			Porites, Turf	566658.000000	8219282.000000	2
688 Rocky	Hard coral	Moderate	Algae	Sparse			Acropora, Fungia, Favia			2
689 Rocky	Hard coral	Moderate						566642.000000	8219272.000000	2
690 Coral rubble	Hard coral						Acropora, Porites		8219272.000000 8219269.000000	2
691 Rocky	Hard caral	Moderate	Algae	Sparse			Acropora, Porites Coral rubble, Fungia, Acropora, Turbinaria	566652.000000		
692 Sand	naru corai		Algae	Sparse			Coral rubble, Fungia, Acropora, Turbinaria	566652.000000 566634.000000	8219269.000000 8219289.000000	2 2
	Hard coral	Sparse			Algae	Snarse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip)	566652.000000 566634.000000 566354.000000	8219269.000000 8219289.000000 8219307.000000	2 2 1
	Hard coral	Sparse Moderate	Soft coral	Sparse	Algae Soft Coral	Sparse	Coral rubble, Fungia, Acropora, Turbinaria	566652.000000 566634.000000 566354.000000 566367.000000	8219269.000000 8219289.000000 8219307.000000 8219284.000000	2 2 1 1
693 Sand	Hard coral Algae	Sparse Moderate Sparse	Soft coral Hydroids	Sparse Sparse	Soft Coral	Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip)	566652.000000 566634.000000 566354.000000 566367.000000 566336.000000	8219269.000000 8219289.000000 8219307.000000 8219284.000000 8219281.000000	2 2 1 1
693 Sand 694 Sand	Hard coral Algae Algae	Sparse Moderate Sparse Sparse	Soft coral Hydroids Hydroids	Sparse Sparse Sparse	Soft Coral Soft Coral	Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip)	566652.000000 566634.000000 566354.000000 566367.000000 566336.000000 566326.000000	8219269.000000 8219289.000000 8219307.000000 8219284.000000 8219281.0000000 8219288.0000000	2 2 1 1 1
693 Sand 694 Sand 695 Sand	Hard coral Algae Algae Algae	Sparse Moderate Sparse Sparse Sparse	Soft coral Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip)	566652.000000 566634.000000 566354.000000 566367.000000 566336.000000 566326.000000	8219269.000000 8219289.000000 8219307.000000 8219284.000000 8219281.000000 8219288.00000000000000000000000000000000000	2 2 1 1 1 1
693 Sand 694 Sand 695 Sand 696 Sand	Hard coral Algae Algae Algae Algae	Sparse Moderate Sparse Sparse Sparse Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip)	566652.00000 566634.00000 566354.00000 566367.00000 566336.00000 566326.00000 566331.00000 566323.00000	8219269.000000 8219289.000000 8219307.000000 8219284.000000 8219281.000000 8219288.000000 8219302.0000000 8219327.0000000	2 2 1 1 1 1 1
693 Sand 694 Sand 695 Sand 696 Sand 697 Sand	Hard coral Algae Algae Algae Algae Algae	Sparse Moderate Sparse Sparse Sparse Sparse Sparse Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip)	56652.00000 56634.00000 566354.00000 566367.00000 566336.00000 566326.00000 566323.00000 566323.00000	8219269.00000 8219289.00000 8219307.000000 8219284.000000 8219281.000000 8219288.000000 8219302.000000 8219302.000000 8219327.000000	2 2 1 1 1 1 1 1 1
693 Sand 694 Sand 695 Sand 696 Sand	Hard coral Algae Algae Algae Algae	Sparse Moderate Sparse Sparse Sparse Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip)	56652.00000 56634.00000 566354.00000 566367.00000 566336.00000 566326.00000 566323.00000 566323.00000	8219269.000000 8219289.000000 8219307.000000 8219284.000000 8219281.000000 8219288.000000 8219302.0000000 8219327.0000000	2 2 1 1 1 1 1
693 Sand 694 Sand 695 Sand 696 Sand 697 Sand 698 Sand 699 Sand	Hard coral Algae Algae Algae Algae Algae	Sparse Moderate Sparse Sparse Sparse Sparse Sparse Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip)	566652.000000 566634.000000 566354.000000 566336.000000 566336.000000 566331.000000 566323.000000 566312.000000 566312.000000	8219269.00000 8219289.00000 8219307.000000 8219284.000000 8219281.000000 8219288.000000 8219302.000000 8219302.000000 8219327.000000	2 2 1 1 1 1 1 1 1 1 3
693 Sand 694 Sand 695 Sand 696 Sand 697 Sand 698 Sand	Hard coral Algae Algae Algae Algae Algae Algae	Sparse Moderate Sparse Sparse Sparse Sparse Sparse Sparse Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip) Plate coral	566652.000000 566634.000000 566354.000000 566336.000000 566336.000000 566331.000000 566323.000000 566312.000000 566312.000000 566921.000000	8219269.00000 8219289.00000 8219307.00000 8219284.00000 8219281.000000 8219288.000000 8219302.000000 8219302.000000 8219327.000000 8219327.000000	2 2 1 1 1 1 1 1 1 1 3
693 Sand 694 Sand 695 Sand 696 Sand 697 Sand 698 Sand 699 Sand	Hard coral Algae Algae Algae Algae Algae Algae Algae	Sparse Moderate Sparse Sparse Sparse Sparse Sparse Sparse Sparse Sparse Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip) Plate coral	566652.000000 56634.000000 566354.000000 566367.000000 566326.000000 566326.000000 566323.000000 566312.000000 566921.000000 566285.000000 566272.000000	8219269.00000 8219289.00000 8219307.00000 8219284.00000 8219281.000000 8219288.00000 8219302.000000 8219327.000000 8219327.000000 8219351.000000 8219359.000000	2 2 1 1 1 1 1 1 1 1 3
693 Sand 694 Sand 695 Sand 696 Sand 697 Sand 698 Sand 699 Sand 700 Sand	Hard coral Algae Algae Algae Algae Algae Algae Algae Hydroids	Sparse Moderate Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip) Plate coral	566652.000000 566354.000000 566354.000000 566336.000000 566336.000000 566331.000000 566312.000000 566312.000000 56621.000000 566225.000000 566272.000000 566284.000000	8219269.00000 8219307.000000 8219307.000000 8219284.000000 8219288.000000 8219302.000000 8219327.000000 8219327.000000 8219351.000000 8219359.000000 8219357.000000	2 2 1 1 1 1 1 1 1 3 1
693 Sand 694 Sand 695 Sand 696 Sand 697 Sand 698 Sand 699 Sand 700 Sand 701 Sand 702 Sand	Hard coral Algae Algae Algae Algae Algae Algae Hydroids Hydroids Bare	Sparse Moderate Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip) Plate coral	566652.000000 566634.000000 566354.000000 566357.000000 566336.000000 566331.000000 566331.000000 566212.000000 566285.000000 566272.000000 566272.000000 566234.000000	8219269.00000 8219289.000000 8219307.000000 8219281.000000 8219281.000000 8219282.000000 8219327.000000 8219327.000000 82193359.000000 8219359.000000 8219359.000000 8219359.000000	2 2 1 1 1 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1
693 Sand 694 Sand 695 Sand 696 Sand 697 Sand 698 Sand 699 Sand 700 Sand 701 Sand 702 Sand 703 Sand	Hard coral Algae Algae Algae Algae Algae Algae Hydroids Hydroids Bare Bare	Sparse Moderate Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip) Plate coral	566652.000000 566634.000000 566354.000000 566336.000000 566336.000000 566331.000000 566323.000000 566323.000000 566321.000000 566285.000000 566272.000000 566234.000000 566234.000000	8219269.00000 8219289.00000 8219307.00000 8219284.00000 8219281.000000 8219302.000000 8219327.000000 8219327.000000 8219357.000000 8219357.000000 8219357.000000 8219359.000000 8219341.000000	2 2 1 1 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1
693 Sand 694 Sand 695 Sand 696 Sand 697 Sand 698 Sand 699 Sand 700 Sand 701 Sand 702 Sand 703 Sand 704 Sand	Hard coral Algae Algae Algae Algae Algae Algae Algae Hydroids Hydroids Bare Bare	Sparse Moderate Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip) Plate coral	566652.000000 566634.000000 566334.000000 566336.000000 566336.000000 566331.000000 566323.000000 566312.000000 566210.000000 566285.000000 566284.000000 566234.000000 566234.000000 566234.000000	8219269.00000 8219289.000000 8219307.000000 8219284.000000 8219281.000000 8219288.000000 8219302.000000 8219327.000000 8219357.000000 8219357.000000 8219359.000000 8219359.000000 8219345.000000 8219345.000000 8219354.000000	2 2 1 1 1 1 1 1 3 3 1 1 1 1 1 1
693 Sand 694 Sand 695 Sand 696 Sand 697 Sand 698 Sand 700 Sand 701 Sand 702 Sand 703 Sand 704 Sand 705 Sand	Hard coral Algae Algae Algae Algae Algae Algae Algae Hydroids Hydroids Bare Bare	Sparse Moderate Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip) Plate coral	566652.000000 56634.000000 566354.000000 566336.000000 566336.000000 566323.000000 566312.000000 566312.000000 566285.000000 566284.000000 566234.000000 566234.000000 566243.000000 566139.000000	8219269.00000 8219289.000000 8219307.000000 8219284.000000 8219288.000000 8219302.000000 8219327.000000 8219327.000000 8219351.000000 8219359.000000 8219359.000000 8219345.000000 8219345.000000 8219345.000000 8219345.000000	2 2 1 1 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1
693 Sand 694 Sand 695 Sand 696 Sand 697 Sand 698 Sand 699 Sand 700 Sand 701 Sand 702 Sand 703 Sand 704 Sand 705 Sand 706 Rocky	Hard coral Algae Algae Algae Algae Algae Algae Hydroids Hydroids Bare Bare Bare Bare	Sparse Moderate Sparse	Soft coral Hydroids Hydroids Hydroids Hydroids Hydroids	Sparse Sparse Sparse Sparse Sparse Sparse Sparse	Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral Soft Coral	Sparse Sparse Sparse Sparse Sparse Sparse	Coral rubble, Fungia, Acropora, Turbinaria Gorgonian (sea whip) Plate coral	566652.000000 566634.000000 566354.000000 566336.000000 566331.000000 566331.000000 566321.000000 566285.000000 566272.000000 566272.000000 566273.000000 566273.000000 566273.000000 566273.000000 566273.000000 566273.000000	8219269.00000 8219289.000000 8219281.000000 8219281.000000 8219281.000000 8219282.000000 8219327.000000 8219327.000000 8219359.000000 8219359.000000 8219359.000000 8219341.000000 8219354.000000 8219354.000000 8219368.000000	2 2 1 1 1 1 1 1 3 3 1 1 1 1 1 1 1 1 1 1
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