

Section 16(e): EPA Strategic Advice on Exmouth Gulf

Summary of Public Submissions

This document forms a summary of public submissions and advice received regarding the Section 16(e): Environmental Protection Authority (EPA) Strategic Advice for the Exmouth Gulf.

Background

The Minister for Environment requested the EPA to provide advice under section 16(e) of the *Environmental Protection Act 1986* (EP Act) on the potential cumulative impacts of proposed activities and developments on the environmental, social and cultural values of Exmouth Gulf.

The EPA has agreed to provide the Minister for Environment advice and recommendations:

- the current state of key environmental, social and cultural values in Exmouth Gulf
- the potential impacts on those values posed by existing activities and developments including, but not limited to, industrial activity (including oil and gas support), transportation and logistics operations, commercial and recreational fishing, and tourism
- the potential impacts on those values by proposed activities and developments including, but not limited to, the Learmonth Pipeline Fabrication Facility proposal (Subsea 7), the Gascoyne Gateway Cruise and Multi-use Marine Facility, and the Ashburton Salt proposal (K+S Salt Australia Ltd Pty) and
- the compatibility of future developments with the key environmental, social and cultural values in Exmouth Gulf.

The EPA called for community and industry input on current and proposed pressures facing the Exmouth Gulf and how they are/will impact on the area's environmental, social and cultural values.

The EPA undertook an initial period of public consultation on 21 October 2020 for a period of 3 weeks, ending on 11 November 2020. A total of 321 submissions were received from 316 submitters.

The public submissions will ensure the EPA's strategic advice on the Exmouth Gulf is well informed by the community, government, industry, academics and groups.

It should be noted that, since the conclusion of the EPA's public consultation period, Subsea 7's Learmonth Pipeline Fabrication Facility proposal (Assessment No. 2208) has been terminated by the EPA at the request of the proponent. The EPA has retained information received regarding the Learmonth Pipeline Fabrication Facility proposal to support transparency and robustness of the process.

Key values and pressures

The key values identified in the submissions include:

- identification of the ecosystem and biodiversity of Exmouth Gulf, including connectivity with the Ningaloo Reef system
- recognition of the coral reef, mangroves and algal mat communities, and their function within the nutrient cycle
- marine fauna species and habitats within Exmouth Gulf, including marine mammals, reptiles, elasmobranchs, seabirds and fish
- the value of Exmouth Gulf to the local economy, including tourism, industry, scientific research and commercial fishing
- natural and heritage values associated with Exmouth Gulf for Traditional Owners
- the amenity values of Exmouth Gulf, including wilderness and aesthetic qualities for the Exmouth community
- marine and land-based recreational activities undertaken within Exmouth Gulf by the Exmouth community and tourists

The key pressures identified in the submissions include:

- loss of benthic habitats, including dredging and trawling activities that may cause disturbance or destruction of the seabed, coral reefs and mangroves
- climate change and the resilience of the ecosystem to adapt under extreme temperatures, ocean acidification, marine heatwaves and sea level rise
- destruction or degradation of marine fauna habitat, including acoustic pressures, vessel strikes, and depletion of fish stock
- economic pressures, including unmanaged and unsustainable tourism growth, oil and gas proposals, mineral extraction, marine infrastructure proposals and unregulated shipping through Exmouth Gulf
- potential loss of wilderness and aesthetic values due to additional infrastructure and the presence of industry in Exmouth Gulf

The EPA also received submissions from individuals who opposed industrialisation of Exmouth Gulf due to the presence of existing industry in the wider Pilbara and Gascoyne areas.

Notes

The EPA does not necessarily endorse the issues raised in the summarised submissions.

The EPA has chosen to redact the names of all individual submitters and local businesses and has provided each submitter a unique identifying code.

Table of Contents

Acronyms and Abbreviations	4
Government role within the Exmouth Gulf	5
Holistic comments	6
Air Quality and Greenhouse Gas Emissions	8
Benthic Communities and Habitats	9
Climate Change	12
Coastal Processes	14
Flora and Vegetation	15
Inland Waters	15
Marine Environmental Quality	16
Marine Fauna(s)	18
Social Surroundings	29
Subterranean Fauna	52
Terrestrial Fauna	53
Other	54

No table of contents entries found.

Acronyms and Abbreviations

Abbreviation	Description
BC Act	<i>Biodiversity Conservation Act 2016</i>
BDEC	Busselton-Dunsborough Environment Centre Inc.
CALM Act	<i>Conservation and Land Management Act 1984</i>
CCG	Cape Conservation Group
CETREC	Cetacean Research Centre
DBCA	Department of Biodiversity, Conservation and Attractions
Defence	Commonwealth Department of Defence
DJTSI	Department of Jobs, Tourism, Science and Innovation
DPIRD	Department of Primary Industries and Regional Development
ECCI	Exmouth Chamber of Commerce and Industry
EP Act	<i>Environmental Protection Act 1986</i>
EPA	Environmental Protection Authority
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999</i>
GHz	gigahertz

IUCN	International Union for Conservation of Nature
km	kilometres
m	metres
MHz	megahertz
MLC	Member of the Legislative Council
MNES	Matters of National Environmental Significance
NCWHAC	Ningaloo Coast World Heritage Advisory Committee
NRM	Natural Resource Management
PLB	Pastoral Lands Board
PPA	Pilbara Ports Authority
RAAF	Royal Australian Air Force
Transport	Department of Transport
WAPC	Western Australian Planning Commission

Government role within the Exmouth Gulf

No.	Submitter(s)	Submission and/or issue
1	DBCA	<p>DBCA manages the following reserves under the CALM Act:</p> <ul style="list-style-type: none"> • Ningaloo Marine Park (M2) Class A • Murion Islands Marine Management Area (M12) • Bundegi Coastal Park (R40728) • Jarabi Coastal Park (R40729) • Cape Range National Park (R27288) • Giralia National Park (proposed) • A number of island conservation reserves
2	Defence	<p>Defence owns and operates several sites within the Exmouth Gulf region:</p> <ul style="list-style-type: none"> • Naval Communication Station Harold E Holt (and associated air space) • Space Surveillance Telescope • RAAF Base Learmonth (and associated air space) • Learmonth Solar Observatory • Learmonth Air Weapons Range (outside the EPA's Exmouth Gulf study area)
3	Transport	<p>Ministerial Statements 406 and 212 provide conditions for Transport to operate the Exmouth Boat Harbour, including biennial monitoring of water quality, sedimentation and oysters.</p> <p>The Exmouth Boat Harbour is vested in Transport Maritime and managed by the department. Exmouth is positioning itself to be the service hub to the oil and gas industry in the area and 35 to 50m service vessels use the facility to service the large 100 m and greater ships that come into the gulf.</p>
4	PPA	<p>No direct operational presence within Exmouth Gulf.</p> <p>Approximately 75 km east of Exmouth Gulf, Urala has been earmarked as the location for a new multi-user port for the export of salt and other bulk minerals.</p>
5	DPIRD	<p>The Exmouth Gulf Prawn Managed Fishery is a significant commercial fishery, which is managed by DPIRD.</p>
6	PLB	<p>The PLB has a role in ensuring appropriate land management outcomes are achieved on pastoral estate and ensuring good environmental outcomes on pastoral leases that border the Exmouth Gulf.</p>
7	Learmonth Solar Observatory	<p>The Learmonth Solar Observatory is co-managed by the Australian Bureau of Meteorology and the United States Military.</p> <p>The observatory monitors solar activity through electronic and visible means throughout the year.</p> <p>The radio telescope measures solar activity at discrete frequencies in the MHz and low GHz range.</p>
8	NCWHAC	<p>Australia is a signatory to the World Heritage Convention and has duties to protect the Ningaloo Coast World Heritage Area.</p>

No.	Submitter(s)	Submission and/or issue
		NCWHAC provides advice to the Commonwealth and State Environmental Ministers, management agencies and other relevant parties on the protection, conservation, presentation and management of the outstanding universal values of the World Heritage Area.
9	NCWHAC	The Ningaloo Coast is subject to various planning and policy regimes from the Shire of Exmouth, Shire of Ashburton, Gascoyne Development Commission, WAPC, and many individual State and Commonwealth Government departments.
10	Tourism WA	Tourism WA (DJTSI) is working across Government on solutions for port infrastructure issues to grow cruise tourism opportunities in Exmouth.

Holistic comments

No.	Submitter(s)	Submission and/or issue
11	BDEC CCG CETREC WA Hon Robin Chapple MLC MG Kailis Group NCWHAC Protect Ningaloo Rangelands NRM ANON-EG-02 ANON-EG-06 ANON-EG-10 ANON-EG-11 ANON-EG-13 ANON-EG-16 ANON-EG-27 ANON-EG-28 ANON-EG-29 ANON-EG-31 ANON-EG-33 ANON-EG-34 ANON-EG-35 ANON-EG-36 ANON-EG-40 ANON-EG-46	<p>ANON-P8JT-DEZQ-T ANON-P8JT-DEZ7-Z ANON-P8JT-DE9G-F ANON-P8JT-DE9N-P ANON-P8JT-DEZF-F ANON-P8JT-DE3V-R ANON-P8JT-DEQ4-M ANON-P8JT-DEQR-J ANON-P8JT-DEP9-R ANON-P8JT-DEPW-P ANON-P8JT-DEPF-5 ANON-P8JT-DEPN-D ANON-P8JT-DEPP-F ANON-P8JT-DEP5-M ANON-P8JT-DEPZ-S ANON-P8JT-DEPR-H ANON-P8JT-DEZW-Z ANON-P8JT-DEZV-Y ANON-P8JT-DEZE-E ANON-P8JT-DEZX-1 ANON-P8JT-DE9P-R ANON-P8JT-DE9E-D ANON-P8JT-DE9K-K ANON-P8JT-DEH9-G ANON-P8JT-DEHC-T</p> <p><u>Values:</u></p> <ul style="list-style-type: none"> • There is inherent connectivity between Ningaloo Reef and Exmouth Gulf • The Exmouth Gulf is a biodiversity thoroughfare and hotspot • The Exmouth Gulf is a dynamic system and requires dynamic management • The World Heritage Committee recommended inclusion of Exmouth Gulf in the World Heritage Area on the grounds of ecological linkages between the Ningaloo Reef and the gulf • The document <i>Representative Marine Reserve System for Western Australia 1994</i> (the Wilson Report) recommended a marine reserve be established for Southern and Eastern portions of Exmouth Gulf, including an adjacent land reserve • Exmouth Gulf should be included in the World Heritage Area • Exmouth Gulf is of great ecological importance and should be provided a higher level of environmental protection, such as legislative protection • Intergenerational equity – Exmouth Gulf should be maintained for the enjoyment of future generations • Ecosystem and biodiversity values • The connectivity between Ningaloo Reef and Exmouth Gulf is literal and spatial

No.	Submitter(s)	Submission and/or issue
	ANON-EG-47	ANON-P8JT-DEHA-R
	ANON-EG-48	ANON-P8JT-DEHG-X
	ANON-EG-49	ANON-P8JT-DEHF-W
	ANON-EG-50	ANON-P8JT-DEHN-5
	ANON-EG-57	ANON-P8JT-DEHM-4
	ANON-EG-58	ANON-P8JT-DEHP-7
	ANON-EG-64	ANON-P8JT-DEHJ-1
	ANON-EG-67	ANON-P8JT-DEHD-U
	ANON-EG-68	ANON-P8JT-DEHZ-H
	ANON-EG-71	ANON-P8JT-DEH1-8
	ANON-EG-72	ANON-P8JT-DE4U-R
	ANON-EG-73	ANON-P8JT-DEH8-F
	ANON-EG-74	ANON-P8JT-DE4W-T
	ANON-EG-81	ANON-P8JT-DE4X-U
	ANON-EG-82	ANON-P8JT-DE4A-4
	ANON-EG-85	ANON-P8JT-DE4G-A
	ANON-EG-86	ANON-P8JT-DE4P-K
	ANON-EG-87	ANON-P8JT-DE45-R
	ANON-EG-89	ANON-P8JT-DE47-T
	ANON-EG-91	ANON-P8JT-DE92-T
	ANON-EG-94	ANON-P8JT-DEQX-R
	ANON-EG-97	ANON-P8JT-DEQD-4
	ANON-EG-98	ANON-P8JT-DEQM-D
	ANON-EG-100	ANON-P8JT-DEQP-G
	ANON-EG-101	ANON-P8JT-DEQ7-Q
	ANON-EG-103	ANON-P8JT-DE34-P
	ANON-EG-107	ANON-P8JT-DEQ8-R
	ANON-EG-114	ANON-P8JT-DE3T-P
	ANON-EG-119	ANON-P8JT-DE3C-5
	ANON-EG-121	ANON-P8JT-DE3Y-U
	ANON-EG-124	ANON-P8JT-DE3A-3
	ANON-EG-125	ANON-P8JT-DE3N-G
	ANON-EG-130	ANON-P8JT-DEQJ-A
	ANON-EG-132	ANON-P8JT-DE3M-F
	ANON-EG-133	ANON-P8JT-DE3Q-K
	ANON-EG-136	ANON-P8JT-DE3R-M
	ANON-EG-137	ANON-P8JT-DEN4-H
	ANON-EG-141	ANON-P8JT-DE3H-A

No.	Submitter(s)	Submission and/or issue
	ANON-EG-142 ANON-EG-144 ANON-EG-149 ANON-P8JT-DEZP-S ANON-P8JT-DEZ2-U	ANON-P8JT-DEQY-S ANON-P8JT-DENW-M ANON-P8JT-DE37-S ANON-P8JT-DENF-3 ANON-P8JT-DENA-X
12	CCG Protect Ningaloo Recfishwest Rangelands NRM ANON-EG-03 ANON-EG-10 ANON-EG-11 ANON-EG-13 ANON-EG-16 ANON-EG-24 ANON-EG-27 ANON-EG-28 ANON-EG-32 ANON-EG-33 ANON-EG-35 ANON-EG-47 ANON-EG-48 ANON-EG-67 ANON-EG-74 ANON-EG-149 ANON-P8JT-DEQ4-M ANON-P8JT-DEP9-R	ANON-P8JT-DEPW-P ANON-P8JT-DEZW-Z ANON-P8JT-DEZ2-U ANON-P8JT-DE9N-P ANON-P8JT-DE9N-P ANON-P8JT-DE9E-D ANON-P8JT-DEHC-T ANON-P8JT-DEHM-4 ANON-P8JT-DEHP-7 ANON-P8JT-DEHD-U ANON-P8JT-DEHZ-H ANON-P8JT-DE4U-R ANON-P8JT-DE4N-H ANON-P8JT-DEQW-Q ANON-P8JT-DEQX-R ANON-P8JT-DEQM-D ANON-P8JT-DE39-U ANON-P8JT-DE3C-5 ANON-P8JT-DE32-M ANON-P8JT-DE3R-M ANON-P8JT-DENF-3
		<p><u>Potential and current pressures:</u></p> <ul style="list-style-type: none"> • Increased human use and industrialisation of Exmouth Gulf will impact ecosystem resilience and impair the natural recovery processes • There are significant baseline knowledge gaps around the ecology of Exmouth Gulf • Exmouth Gulf needs a proper framework and vigilant oversight from government in its management and consideration of future proposals and activities • Disruption or collapse of the ecosystem • Management of Exmouth Gulf should not be proposal driven • The tragedy of the commons

Air Quality and Greenhouse Gas Emissions

No.	Submitter(s)	Submission and/or issue
13	Defence Learmonth Solar Observatory ANON-EG-27	<p><u>Values:</u></p> <ul style="list-style-type: none"> • The observatory was strategically constructed on the Exmouth Gulf in remote Western Australia to take advantage of the cloud-free, interference-free, and pollutant-free conditions that exist in the area • The Exmouth Gulf region was selected as the site for the Space Surveillance Telescope due to its distance from populated areas and its low particulate pollution

No.	Submitter(s)	Submission and/or issue
14	CCG Defence Learmonth Solar Observatory ANON-EG-74 ANON-EG-87 ANON-EG-93 ANON-P8JT-DEHA-R ANON-P8JT-DEHP-7 ANON-P8JT-DENF-3	<ul style="list-style-type: none"> • Fresh air <p><u>Potential and current pressures:</u></p> <ul style="list-style-type: none"> • An increase in large-scale industrial traffic would bring additional pollutants including CO₂ emissions • Any additional communications infrastructure would likely interfere with the solar observatory's highly sensitive radio-frequency monitoring equipment • Additional atmospheric pollutants would impact the function of the solar observatory, particularly visible observation of the sun, particularly near sunrise and sunset • Large-scale pipelines, even under the surface could generate unwanted and unintended interaction with the earth's magnetic field • An increase in air pollution increases particles in the air which reduces effectiveness of optical telescopes • Development in Exmouth Gulf region may have an impact on the performance of Space Surveillance Telescope sensors

Benthic Communities and Habitats

No.	Submitter(s)	Submission and/or issue
15	CCG CETREC WA Defence DPIRD NCWHAC MG Kailis Group Minderoo Foundation PPA Protect Ningaloo Rangelands NRM Recfishwest Transport ANON-EG-02 ANON-EG-03 ANON-EG-14 ANON-EG-23 ANON-EG-24 ANON-EG-31 ANON-EG-34	<p>ANON-EG-151 ANON-P8JT-DE3V-R ANON-P8JT-DEP2-H ANON-P8JT-DEQR-J ANON-P8JT-DEPV-N ANON-P8JT-DEPF-5 ANON-P8JT-DEPF-5 ANON-P8JT-DEP5-M ANON-P8JT-DEZ3-V ANON-P8JT-DEZT-W ANON-P8JT-DEZW-Z ANON-P8JT-DEZF-F ANON-P8JT-DEZQ-T ANON-P8JT-DEZ7-Z ANON-P8JT-DE9B-A ANON-P8JT-DE9Q-S ANON-P8JT-DE9H-G ANON-P8JT-DEHN-5 ANON-P8JT-DEHD-U</p> <p><u>Values:</u></p> <ul style="list-style-type: none"> • The Ningaloo Coast is one of the world's largest fringing reefs, extending for approximately 260 km • The Ningaloo Coast has a diversity of reef ecosystems • Exmouth Gulf contains a number of nationally important marine and coastal zone wetlands • The Ningaloo Coast Statement of Outstanding Universal Value (IUCN) notes that the area contains high diversity of marine invertebrates and algae • The IUCN recommended inclusion of the Exmouth Gulf in its listing on the grounds of ecological linkages between the Ningaloo Reef and Exmouth Gulf, in particular the extensive mangrove stands and other shallow water habitats that function as nurseries and adult foraging grounds for many species • Mangroves – regionally significant and one of the largest unmodified aggregations of mangroves in Northern Australia • Particle dispersion modelling demonstrates connectivity between the Exmouth Gulf and the western Ningaloo Reef, contributing to exchanges in productivity and to larval supply • Intertidal mudflats • Coral reef communities and refugia (fringing reefs, pavement reefs, coral bommies)

No.	Submitter(s)		Submission and/or issue
	ANON-EG-35 ANON-EG-37 ANON-EG-41 ANON-EG-50 ANON-EG-62 ANON-EG-66 ANON-EG-69 ANON-EG-74 ANON-EG-80 ANON-EG-86 ANON-EG-87 ANON-EG-91 ANON-EG-93 ANON-EG-96 ANON-EG-100 ANON-EG-101 ANON-EG-106 ANON-EG-110 ANON-EG-116 ANON-EG-121 ANON-EG-123 ANON-EG-131 ANON-EG-137 ANON-EG-143 ANON-EG-144 ANON-EG-147 ANON-EG-149	ANON-P8JT-DEHZ-H ANON-P8JT-DEH1-8 ANON-P8JT-DE49-V ANON-P8JT-DEH8-F ANON-P8JT-DE4Y-V ANON-P8JT-DE4W-T ANON-P8JT-DE4X-U ANON-P8JT-DE4A-4 ANON-P8JT-DE4G-A ANON-P8JT-DEQW-Q ANON-P8JT-DEQ7-Q ANON-P8JT-DE34-P ANON-P8JT-DEQ8-R ANON-P8JT-DE3C-5 ANON-P8JT-DE3X-T ANON-P8JT-DE3N-G ANON-P8JT-DEQJ-A ANON-P8JT-DE3Q-K ANON-P8JT-DE3R-M ANON-P8JT-DEQY-S ANON-P8JT-DENE-2 ANON-P8JT-DEN9-P ANON-P8JT-DENF-3	<ul style="list-style-type: none"> • Sponge gardens • Seagrass beds – tropical • Mud/sand bottom areas • Macro-algal beds • Algal mats (blue-green cyanobacteria) • Samphire communities • Mangrove systems function as nurseries and adult foraging grounds for many species • The Eastern portion of Exmouth Gulf is of great ecological importance and should be provided a higher level of environmental protection • Exmouth Gulf East subtidal and intertidal regions are classified as a Wetland of National Importance • Sand and mud bottoms • Fossilised reef • Arid zone estuary system • Primary productivity in Exmouth Gulf feeds Ningaloo Reef • Urala Creek north and south • Mowbowra Creek fringing reef structures • Blue carbon • Exmouth Integrated Artificial Reef • Exmouth Gulf benthic habitats are an important science research and education area • Mangroves in Exmouth Gulf have unique physiological adaptations to extremely high salinity and low humidity • Cyclonic activity delivers nutrients, sediments and freshwater to mangroves which supports high productivity • Turbid reef systems may be more resilient to bleaching and marine heatwave events.
16	CCG CETREC WA DPIRD ECCI MG Kailis Group NCWHAC Protect Ningaloo Rangelands NRM Recfishwest ANON-EG-01	ANON-P8JT-DEP2-H ANON-P8JT-DEQR-J ANON-P8JT-DE3S-N ANON-P8JT-DEPC-2 ANON-P8JT-DEPV-N ANON-P8JT-DEPF-5 ANON-P8JT-DEPZ-S ANON-P8JT-DEPZ-S ANON-P8JT-DEPQ-G ANON-P8JT-DEP7-P	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Loss of salt/mudflat and mangrove areas due to dredging or excavation processes • Coral bleaching (frequency and extent) • Concern that large-scale coral bleaching events will see the Ningaloo Reef deteriorating similar to the Great Barrier Reef • Vessel collisions with reef • Oil spills and accidental discharges of other pollutants pose a significant and most likely irreversible threat to coral reefs, mangroves and sessile invertebrates (tunicates, sponges etc)

No.	Submitter(s)	Submission and/or issue
ANON-EG-09 ANON-EG-12 ANON-EG-15 ANON-EG-16 ANON-EG-17 ANON-EG-19 ANON-EG-23 ANON-EG-26 ANON-EG-27 ANON-EG-28 ANON-EG-31 ANON-EG-33 ANON-EG-34 ANON-EG-38 ANON-EG-41 ANON-EG-43 ANON-EG-44 ANON-EG-47 ANON-EG-50 ANON-EG-54 ANON-EG-60 ANON-EG-61 ANON-EG-62 ANON-EG-63 ANON-EG-67 ANON-EG-69 ANON-EG-74 ANON-EG-80 ANON-EG-81 ANON-EG-82 ANON-EG-86 ANON-EG-87 ANON-EG-92 ANON-EG-93 ANON-EG-94 ANON-EG-98 ANON-EG-100 ANON-EG-110	ANON-P8JT-DEPR-H ANON-P8JT-DEZY-2 ANON-P8JT-DEZG-G ANON-P8JT-DEZP-S ANON-P8JT-DEZF-F ANON-P8JT-DEZQ-T ANON-P8JT-DE9Y-1 ANON-P8JT-DE9N-P ANON-P8JT-DE9S-U ANON-P8JT-DE9P-R ANON-P8JT-DE9E-D ANON-P8JT-DE9Q-S ANON-P8JT-DE97-Y ANON-P8JT-DE98-Z ANON-P8JT-DE9H-G ANON-P8JT-DEH9-G ANON-P8JT-DEHC-T ANON-P8JT-DEPG-6 ANON-P8JT-DEHX-F ANON-P8JT-DEHF-W ANON-P8JT-DEHN-5 ANON-P8JT-DEHP-7 ANON-P8JT-DEHD-U ANON-P8JT-DEH1-8 ANON-P8JT-DE44-Q ANON-P8JT-DE49-V ANON-P8JT-DEH8-F ANON-P8JT-DE4Y-V ANON-P8JT-DE4W-T ANON-P8JT-DE4A-4 ANON-P8JT-DE4N-H ANON-P8JT-DE47-T ANON-P8JT-DE92-T ANON-P8JT-DEQW-Q ANON-P8JT-DEQX-R ANON-P8JT-DEQD-4 ANON-P8JT-DEQ7-Q ANON-P8JT-DEH5-C	<ul style="list-style-type: none"> • Increased tourism and recreational fishing can impact sensitive benthic ecological communities (touching/standing on reef systems) • Exmouth Gulf reefs (including Bundegi reef) have already been severely affected by multiple bleaching events and their ability to recover is reduced • Mangroves, seagrass, seaweed and corals are likely to be impacted through the effects of climate change (e.g. loss of seagrass meadows from increased cyclonic activity and marine heatwaves) • Health of mangrove ecosystems are being jeopardised by extreme sea levels • Sedimentation from dredging activities, prawn trawling and movement of large marine vessels can impact benthic habitats • Spread of invasive aquatic plants and species (e.g. <i>Drupella cornus</i>) • Boats drop anchor wherever they choose, which impacts benthic habitat • Concern that sunscreen degrades coral communities • Large scale dredging activities • Irresponsible recreation users damaging reef systems (e.g. the reef at oyster stacks) • Prawn industry impacts benthic communities and is damaging Exmouth Gulf • Recreational off-road driving damages mangroves • Physical disturbance of seagrass and mangrove habitats can be long lasting and include loss of sediment carbon stocks • Loss of blue carbon • Cumulative impacts due to loss of large swathes of algal mats across Exmouth Gulf and Pilbara Coast • Benthic habitat appears to naturally recover after cyclone events • Ningaloo Reef was devastated in the 1980s by a plague of marine snail that killed up to 99% of corals • Cyclonic activity and tropical storms can degrade and destroy coral reef systems due to storm water run-off • High levels of nitrogen increase the vulnerability of mangroves to drought • Sea level rise and cyclones are leading to shoreline retreat for mangroves • Development may impose barriers to mangrove migration onto the salt flats, which will lead to loss of mangrove and algal mat habitats • There used to be a vibrant reef ecosystem in Exmouth Gulf; however, this has now been degraded

No.	Submitter(s)	Submission and/or issue	
	ANON-EG-111 ANON-EG-114 ANON-EG-116 ANON-EG-118 ANON-EG-121 ANON-EG-124 ANON-EG-125 ANON-EG-126 ANON-EG-128 ANON-EG-130 ANON-EG-131 ANON-EG-132 ANON-EG-133 ANON-EG-141 ANON-EG-144 ANON-EG-147 ANON-EG-149 ANON-EG-151 ANON-P8JT-DEPY-R ANON-P8JT-DE3V-R ANON-P8JT-DEQ4-M	ANON-P8JT-DEQ6-P ANON-P8JT-DE34-P ANON-P8JT-DE39-U ANON-P8JT-DE3T-P ANON-P8JT-DE3C-5 ANON-P8JT-DE3X-T ANON-P8JT-DE3N-G ANON-P8JT-DE3P-J ANON-P8JT-DEQJ-A ANON-P8JT-DE3M-F ANON-P8JT-DE3J-C ANON-P8JT-DE3R-M ANON-P8JT-DEN4-H ANON-P8JT-DE3H-A ANON-P8JT-DE31-K ANON-P8JT-DENW-M ANON-P8JT-DEN9-P ANON-P8JT-DENF-3 ANON-P8JT-DENC-Z ANON-P8JT-DENA-X	
17	DPIRD MG Kailis Group	The Exmouth Gulf Prawn Managed Fishery only interacts with a small proportion of the total Exmouth Gulf area, resulting in a low potential to interact with sensitive benthic habitats. The fishery has long term monitoring programs for habitat status within Exmouth Gulf. The most recent research program (completed by DPIRD in 2019) studied interactions between benthic habitats and trawling interactions.	
18	Minderoo Foundation	Research programs are in the early stages of design regarding reef restoration and adaptation, spatial distribution of benthic habitats, and coral systems.	

Climate Change

No.	Submitter(s)	Submission and/or issue
19	BDEC CCG Defence NCWHAC Protect Ningaloo	ANON-EG-136 ANON-EG-137 ANON-EG-147 ANON-EG-149 ANON-EG-151
		<p>Potential and current pressures:</p> <ul style="list-style-type: none"> Climate change has the potential to impact infrastructure including roads, marinas and ports from extreme weather events. Climate change will increase levels of stress on the natural environment of the Exmouth Gulf and adjacent areas of Ningaloo Reef

No.	Submitter(s)	Submission and/or issue	
	Rangelands NRM ANON-EG-12 ANON-EG-28 ANON-EG-44 ANON-EG-50 ANON-EG-58 ANON-EG-82 ANON-EG-87 ANON-EG-94 ANON-EG-95 ANON-EG-98 ANON-EG-99 ANON-EG-101 ANON-EG-103 ANON-EG-111 ANON-EG-118 ANON-EG-121 ANON-EG-124 ANON-EG-126 ANON-EG-128 ANON-EG-129 ANON-EG-130 ANON-EG-131	ANON-P8JT-DEPY-R ANON-P8JT-DEQ4-M ANON-P8JT-DEP2-H ANON-P8JT-DEQR-J ANON-P8JT-DEPZ-S ANON-P8JT-DEZT-W ANON-P8JT-DEZW-Z ANON-P8JT-DEZQ-T ANON-P8JT-DE9E-D ANON-P8JT-DEHC-T ANON-P8JT-DEHG-X ANON-P8JT-DE4U-R ANON-P8JT-DEH8-F ANON-P8JT-DE4W-T ANON-P8JT-DE47-T ANON-P8JT-DE39-U ANON-P8JT-DE3T-P ANON-P8JT-DE3C-5 ANON-P8JT-DE3J-C ANON-P8JT-DE3R-M ANON-P8JT-DEN4-H ANON-P8JT-DE3H-A ANON-P8JT-DENF-3	<ul style="list-style-type: none"> • Climate change pressures may be exacerbated by increased use of the Exmouth Gulf • Climate change may cause the loss of values in the Ningaloo Coast World Heritage Area, particularly through increased risk drought, catastrophic fire, marine heatwaves, coral bleaching, ocean acidification, and sea level rise • Extreme weather events (increased frequency and extent of cyclonic activity) • Climate change may cause mass extinctions in Exmouth Gulf • Exmouth Gulf has a natural resilience to marine heatwaves and cyclonic activity, however it is unclear how resilient it will continue to be if climate change increases the frequency and intensity of these events • Climate change will deter marine biologists from using Exmouth Gulf for research
20	Defence	Climate risks with respect to storm surge, erosion, sea-level rise and flooding have been considered for Defence sites in the Exmouth Gulf.	
21	Minderoo Foundation	A long-term research program is in early stages of design to monitor sea temperature changes and impacts.	

Coastal Processes

No.	Submitter(s)	Submission and/or issue
22	ANON-EG-69 ANON-EG-93 ANON-EG-100 ANON-P8JT-DEHD-U ANON-P8JT-DEHZ-H ANON-P8JT-DE3X-T ANON-P8JT-DEQJ-A ANON-P8JT-DEZQ-T ANON-P8JT-DENF-3	<u>Values:</u> <ul style="list-style-type: none"> • Shallow, calm waters • Complex geophysical systems • Tidal movements • Stable shorelines
23	CCG Defence ECCI MG Kailis Group NCWHAC Protect Ningaloo Rangelands NRM Transport ANON-EG-19 ANON-EG-31 ANON-EG-50 ANON-EG-51 ANON-EG-69 ANON-EG-74 ANON-EG-81 ANON-EG-92 ANON-EG-121 ANON-EG-126 ANON-EG-128 ANON-EG-129 ANON-EG-131 ANON-EG-144 ANON-EG-100 ANON-EG-121	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Unregulated public access leads to damage of sand dunes and coastal vegetation • Oil spills and accidental discharges of other pollutants pose a significant and most likely irreversible threat to coastal processes • Increased tourism activities such as off-road driving causes impacts to dune habitat through erosion and weed spread (e.g. four-wheel drive, motorbikes, dirt bikes, quadbikes) • The Exmouth Marina interrupts the bi-directional transport, resulting in sediment loss offshore • Rates of erosion and sediment loss may be enhanced by tropical cyclone activity • Dune habitat damage can result in increased coastal impacts in the event of storm surge or tsunami • Large scale dredging activities • Permanent loss and alteration of dunes through permanent or semi-permanent infrastructure • Inundation of areas through dune loss • Accretion and depletion of shoreline sands causing changes to coastal morphology • An erosion hotspot has been identified near Warne Street and the Exmouth Yacht Club

Flora and Vegetation

No.	Submitter(s)	Submission and/or issue
24	Defence NCWHAC Protect Ningaloo Rangelands NRM ANON-EG-28 ANON-EG-145 ANON-P8JT-DEPY-R ANON-P8JT-DE3X-T ANON-P8JT-DEQ4-M ANON-P8JT-DE3Q-K	<p><u>Values:</u></p> <ul style="list-style-type: none"> • The Ningaloo Coast Statement of Outstanding Universal Value (IUCN) notes that the area contains noteworthy arid-zone vascular flora • The Cape Range Peninsula is dominated by saline alluvial plains with low shrublands, woodlands, grasslands and dune fields • Remnant bushland • Exmouth Gulf has an amazing array of flora • Flora values are not properly understood • Pastoralists in the Exmouth Gulf region protect the biodiversity of flora and vegetation on their leases • Rock figs • Hummock grasslands
25	CCG ECCI NCWHAC Protect Ningaloo Rangelands NRM ANON-EG-74 ANON-EG-142 ANON-EG-144 ANON-P8JT-DE3V-R ANON-P8JT-DEP2-H ANON-P8JT-DEHZ-H ANON-P8JT-DEQW-Q ANON-P8JT-DENF-3	<p><u>Potential and current pressures:</u></p> <ul style="list-style-type: none"> • Spread of invasive species (weeds) • Unregulated camping destroys flora and vegetation • Clearing of vegetation • Loss of endemic, distinct and priority flora and vegetation communities • Invasive plant species control programs on pastoral lands • Adjacent pastoral land is overgrazed • Tramping of dune vegetation from tourists

Inland Waters

No.	Submitter(s)	Response to comment
26	CCG Protect Ningaloo ANON-EG-41 ANON-EG-50 ANON-EG-74	<p><u>Values:</u></p> <ul style="list-style-type: none"> • Ramsar-listed wetlands • Subterranean water bodies • The waterways and aquifers of Cape Range area are connected to the ocean and influenced by inland waterflows, tide and rain

No.	Submitter(s)	Response to comment
	ANON-EG-96 ANON-EG-116 ANON-P8JT-DEP2-H ANON-P8JT-DEP7-P ANON-P8JT-DE92-T	<ul style="list-style-type: none"> Exmouth is naturally an area of low rainfall that is dependent on large, infrequent rainfall events (flashy system) Large rainfall events create run-off events into Exmouth Gulf providing significant nutrient flow Qualing Pool is a rare surface freshwater expression associated with subterranean waterways
27	CGG Defence ECCI NCWHAC Protect Ningaloo Rangelands NRM ANON-EG-12 ANON-EG-43 ANON-EG-74 ANON-EG-80 ANON-EG-96 ANON-EG-121 ANON-EG-129 ANON-EG-143 ANON-P8JT-DEPY-R ANON-P8JT-DEZ5-X ANON-P8JT-DE9Y-1 ANON-P8JT-DE9E-D ANON-P8JT-DEH9-G ANON-P8JT-DEHP-7 ANON-P8JT-DE4X-U ANON-P8JT-DE92-T	ANON-P8JT-DEQW-Q ANON-P8JT-DEQ8-R ANON-P8JT-DE39-U ANON-P8JT-DEQJ-A ANON-P8JT-DENF-3 ANON-P8JT-DENC-Z
		<p><u>Potential and current pressures:</u></p> <ul style="list-style-type: none"> Pressure on Defence's water abstraction limit is growing in proportion to the growth of both Defence and non-Defence activities, and there will come a time when Defence may have to prioritise use of its potable water supply Increased visitation will increase demands for freshwater Wastewater runoff from industry and landfill Qualing scarp landfill site, incorrect storage of waste can lead to contamination of waterways Limestone mining on hinterland and waterways poses a significant risk to subterranean waterways and risks contamination of potable water resources There has been below average rainfall and no cyclones for the past few years which has reduced the replenishment of Cape Range waterways and aquifers Water shortages Water allocations need to be managed carefully New developments that require freshwater drawdown will be unsustainable Inundation of inland waterways from dune removal Water course alterations (disturbance to creeks, riverbeds and floodways) Seepage reductions Groundwater drawdown Acid Sulphate Soils
28	Defence	Defence currently provides potable water to Bundegi Beach and the Ningaloo Lighthouse Caravan Park within Defence's licensed abstraction limit.

Marine Environmental Quality

No.	Submitter(s)	Submission and/or issue
29	CCG MG Kailis Group Protect Ningaloo	ANON-P8JT-DE4K-E ANON-P8JT-DEQD-4 ANON-P8JT-DE3C-5
		<p><u>Values:</u></p> <ul style="list-style-type: none"> Shallow waters Nutrient flow from supra-tidal flats into Exmouth Gulf

No.	Submitter(s)		Submission and/or issue
	Rangelands NRM ANON-EG-23 ANON-EG-31 ANON-EG-39 ANON-EG-42 ANON-EG-69 ANON-EG-96 ANON-EG-143 ANON-EG-147 ANON-EG-151 ANON-P8JT-DEQ4-M ANON-P8JT-DEP2-H ANON-P8JT-DE4A-4	ANON-P8JT-DEQJ-A	<ul style="list-style-type: none"> • Clear waters • Arid zone estuary system, only remaining intact example in greater Gascoyne and Pilbara coastal bioregions • Pastoralists actively work to remediate land from runoff which improves water quality and reduces silt loads to build resilience of seagrass meadows • Low rainfall and minimal runoff contribute to the exceptional condition and water quality (there is no source of continuous silt being delivered into Exmouth Gulf) • Flash flood rainfall events peak episodically in February and March, which provides freshwater inputs into Exmouth Gulf • The Southern parts of Exmouth Gulf are more saline and subject to more extremes in temperature
30	CCG DPIRD MG Kailis Group Minderoo Foundation NCWHAC Protect Ningaloo Rangelands NRM Transport ANON-EG-12 ANON-EG-15 ANON-EG-21 ANON-EG-31 ANON-EG-35 ANON-EG-41 ANON-EG-62 ANON-EG-69 ANON-EG-74 ANON-EG-82 ANON-EG-87 ANON-EG-92 ANON-EG-93 ANON-EG-94 ANON-EG-96 ANON-EG-100	ANON-EG-132 ANON-EG-143 ANON-EG-144 ANON-EG-149 ANON-P8JT-DEPY-R ANON-P8JT-DEPS-J ANON-P8JT-DE3V-R ANON-P8JT-DEQ4-M ANON-P8JT-DEP2-H ANON-P8JT-DEPV-N ANON-P8JT-DEPZ-S ANON-P8JT-DEPQ-G ANON-P8JT-DEZF-F ANON-P8JT-DE9E-D ANON-P8JT-DEHC-T ANON-P8JT-DEHA-R ANON-P8JT-DEHD-U ANON-P8JT-DE4X-U ANON-P8JT-DE4F-9 ANON-P8JT-DEQE-5 ANON-P8JT-DEQX-R ANON-P8JT-DE3X-T ANON-P8JT-DEQJ-A ANON-P8JT-DEN4-H	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Increased shipping activities • Potential impacts to flow and movement of water/currents and increase in marine sediment turbidity due to construction of groynes or berth facilities • Contamination from spills, including oil spills and accidental discharges of other pollutants pose a significant and most likely irreversible threat to marine environmental quality • Contamination from historical defence activities • Sedimentation from prawn trawling and movement of large marine vessels • Increasing levels of pollution and disturbance may impact on water quality within the World Heritage Area • Increased coastal development may destabilise soils and increase sediment and contaminant inputs into the Exmouth Gulf after rainfall • Salt farms have the potential to extensively modify water and nutrient flows • Large scale dredging activities • Sedimentation caused by dredging activities and sea floor disturbance such as trawling can impact aesthetic values, and underwater seascapes • Irresponsible recreational boating can lead to marine pollution • High turbidity • Dumping of ballast water • Introduction of marine diseases/pathogens • Changes in nutrient flow • Changes to biotic turbidity as a result of long periods of phytoplankton disturbance

No.	Submitter(s)	Submission and/or issue
	ANON-EG-121 ANON-EG-123 ANON-EG-126 ANON-EG-128 ANON-EG-129 ANON-EG-131	<ul style="list-style-type: none"> • Algal blooms • Changes in predator-prey relationships due to poor water quality • Erosion on adjacent pastoral lands increases leads to increased sediment run-off during major rainfall events • Toxic contaminants from deteriorating marine plastics

Marine Fauna(s)

No.	Submitter(s)	Submission and/or issue	
31	APPEA BDEC CCG CETREC WA DBCA Defence DPIRD Minderoo Foundation PPA Protect Ningaloo Rangelands NRM Recfishwest ANON-EG-02 ANON-EG-04 ANON-EG-05 ANON-EG-08 ANON-EG-15 ANON-EG-17 ANON-EG-19 ANON-EG-25 ANON-EG-27 ANON-EG-31 ANON-EG-32 ANON-EG-33 ANON-EG-34 ANON-EG-35 ANON-EG-37 ANON-EG-38	ANON-EG-143 ANON-EG-144 ANON-EG-147 ANON-EG-149 ANON-EG-151 ANON-P8JT-DE3V-R ANON-P8JT-DEP2-H ANON-P8JT-DEQR-J ANON-P8JT-DE3S-N ANON-P8JT-DEPV-N ANON-P8JT-DEPA-Z ANON-P8JT-DEPP-F ANON-P8JT-DEP5-M ANON-P8JT-DEP7-P ANON-P8JT-DEZT-W ANON-P8JT-DEZW-Z ANON-P8JT-DEZX-1 ANON-P8JT-DEZP-S ANON-P8JT-DEZ2-U ANON-P8JT-DEZF-F ANON-P8JT-DEZQ-T ANON-P8JT-DE9W-Y ANON-P8JT-DE9S-U ANON-P8JT-DE9B-A ANON-P8JT-DE9E-D ANON-P8JT-DE95-W ANON-P8JT-DE98-Z ANON-P8JT-DE9K-K	<u>Values:</u> <ul style="list-style-type: none"> • Biologically significant habitat for a variety of marine fauna species listed as threatened or specifically protected under the BC Act and EPBC Act • Marine fauna use the Ningaloo (Commonwealth) Marine Park and the Ningaloo (State) Marine Park as a sanctuary • Marine fauna habitat • Bay of Rest and Heron Point • Qualing Pool and Mowbowra Creek • Pilbara Inshore Islands Reserve area • Diverse and abundant marine life • Breeding and birthing place for marine fauna • The museum is still identifying new marine fauna from Exmouth Gulf • Exmouth Gulf is more important for marine fauna than Coral Bay • Important migratory marine fauna habitat • Access to the abundance of marine fauna in Exmouth Gulf is important for tourism • Marine life in Exmouth Gulf is abundant due to less interaction with humans over prolonged periods of time • Exmouth Gulf functions as a marine fauna nursery for many species • Richness of sea life

No.	Submitter(s)		Submission and/or issue
	ANON-EG-41	ANON-P8JT-DE9H-G	
	ANON-EG-46	ANON-P8JT-DE96-X	
	ANON-EG-48	ANON-P8JT-DEH9-G	
	ANON-EG-49	ANON-P8JT-DEHC-T	
	ANON-EG-50	ANON-P8JT-DEPG-6	
	ANON-EG-57	ANON-P8JT-DEHM-4	
	ANON-EG-58	ANON-P8JT-DEHJ-1	
	ANON-EG-59	ANON-P8JT-DEHD-U	
	ANON-EG-62	ANON-P8JT-DEHZ-H	
	ANON-EG-64	ANON-P8JT-DEH1-8	
	ANON-EG-69	ANON-P8JT-DE49-V	
	ANON-EG-73	ANON-P8JT-DE4U-R	
	ANON-EG-74	ANON-P8JT-DEH8-F	
	ANON-EG-77	ANON-P8JT-DE4Y-V	
	ANON-EG-78	ANON-P8JT-DE4X-U	
	ANON-EG-80	ANON-P8JT-DE4A-4	
	ANON-EG-81	ANON-P8JT-DE4F-9	
	ANON-EG-82	ANON-P8JT-DE4G-A	
	ANON-EG-83	ANON-P8JT-DE4N-H	
	ANON-EG-84	ANON-P8JT-DE47-T	
	ANON-EG-85	ANON-P8JT-DE92-T	
	ANON-EG-87	ANON-P8JT-DEQW-Q	
	ANON-EG-89	ANON-P8JT-DEQC-3	
	ANON-EG-91	ANON-P8JT-DEQX-R	
	ANON-EG-92	ANON-P8JT-DEQ2-J	
	ANON-EG-93	ANON-P8JT-DEQM-D	
	ANON-EG-94	ANON-P8JT-DEQ5-N	
	ANON-EG-96	ANON-P8JT-DEQ7-Q	
	ANON-EG-100	ANON-P8JT-DEQ6-P	
	ANON-EG-101	ANON-P8JT-DEQK-B	
	ANON-EG-102	ANON-P8JT-DE34-P	
	ANON-EG-103	ANON-P8JT-DEQ8-R	
	ANON-EG-104	ANON-P8JT-DE39-U	
	ANON-EG-106	ANON-P8JT-DE3T-P	
	ANON-EG-107	ANON-P8JT-DE3C-5	
	ANON-EG-108	ANON-P8JT-DE3Y-U	
	ANON-EG-110	ANON-P8JT-DE3X-T	
	ANON-EG-116	ANON-P8JT-DE3N-G	

No.	Submitter(s)	Submission and/or issue
	ANON-EG-118 ANON-EG-121 ANON-EG-123 ANON-EG-124 ANON-EG-125 ANON-EG-126 ANON-EG-127 ANON-EG-128 ANON-EG-129 ANON-EG-130 ANON-EG-131 ANON-EG-137 ANON-EG-141 ANON-EG-142	
32	CCG DPIRD NCWHAC Protect Ningaloo Rangelands NRM Transport ANON-EG-16 ANON-EG-18 ANON-EG-21 ANON-EG-25 ANON-EG-28 ANON-EG-38 ANON-EG-39 ANON-EG-40 ANON-EG-42 ANON-EG-60 ANON-EG-61 ANON-EG-69 ANON-EG-74 ANON-EG-86 ANON-EG-87 ANON-EG-89 ANON-EG-91	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Habitat destruction and degradation • Fragmentation of habitats • Increased risk for new species introductions due to increased vessel/barge movements and anchoring within the Gulf • Increased risk of pathogens being introduced to the Exmouth Gulf from nearby aquaculture and/or other commercial activities • Seismic activities from oil and gas exploration and development may impact migratory species • Vessel collisions with marine fauna • Fishing pressures • Oil spills and accidental discharges of other pollutants pose a significant and most likely irreversible threat to marine fauna • Cumulative acoustic pressures (marine noise) from shipping traffic • Recreational fishing is increasing • Marine plastic debris • Wildlife interactions have increased significantly in the advent of social media, affordable photography/video equipment, and you-tube/Instagram influencers. This may impact marine fauna behaviours • Marine fauna habitat and biodiversity is likely to be impacted through the effects of climate change • Pest and predation from invasive species

No.	Submitter(s)	Submission and/or issue	
	ANON-EG-93 ANON-EG-94 ANON-EG-100 ANON-EG-114 ANON-EG-118 ANON-EG-121 ANON-EG-126 ANON-EG-128 ANON-EG-130 ANON-EG-131 ANON-EG-133 ANON-EG-136 ANON-EG-138 ANON-EG-143 ANON-EG-149 ANON-P8JT-DEPY-R ANON-P8JT-DE3V-R ANON-P8JT-DEQ4-M ANON-P8JT-DEQR-J ANON-P8JT-DEPA-Z ANON-P8JT-DEPZ-S ANON-P8JT-DEZT-W	ANON-P8JT-DEQC-3 ANON-P8JT-DEQX-R ANON-P8JT-DEQ7-Q ANON-P8JT-DEQQ-H ANON-P8JT-DEQ6-P ANON-P8JT-DE34-P ANON-P8JT-DE39-U ANON-P8JT-DE3T-P ANON-P8JT-DE3C-5 ANON-P8JT-DE3Y-U ANON-P8JT-DE3X-T ANON-P8JT-DE3N-G ANON-P8JT-DEQJ-A ANON-P8JT-DE32-M ANON-P8JT-DE3J-C ANON-P8JT-DE3R-M ANON-P8JT-DE31-K ANON-P8JT-DENB-Y ANON-P8JT-DENW-M ANON-P8JT-DENF-3 ANON-P8JT-DENC-Z	<ul style="list-style-type: none"> • More marine fauna species need protection • Irresponsible recreational fishers leaving fishing line/equipment in the ocean which can lead to marine fauna entanglement • Risks that may lead to elimination of parts of the food chain • Death of marine fauna due to discharge of bittern from salt production • Death of marine fauna due to entrapment in seawater intake infrastructure for salt production • Extinction of marine fauna species • Marine fauna has decreased in abundance in recent years • Presence of irukandji • Seismic testing has been shown to negatively impact a number of marine species
33	Minderoo Foundation	Research programs are in the early stages of design regarding irukandji jellyfish, crown of thorns, and predator-prey relationships between ghost crabs and turtle eggs/hatchlings.	
Marine reptiles			
34	CCG Defence DPIRD MG Kailis Group Minderoo Foundation NCWHAC Protect Ningaloo Rangelands NRM Transport ANON-EG-06 ANON-EG-35 ANON-EG-47	ANON-EG-144 ANON-EG-149 ANON-EG-151 ANON-P8JT-DEPF-5 ANON-P8JT-DEZ2-U ANON-P8JT-DEZF-F ANON-P8JT-DEHW-E ANON-P8JT-DEH8-F ANON-P8JT-DE3C-5	<u>Values:</u> <ul style="list-style-type: none"> • Loggerhead Sea Turtle – Endangered (EPBC Act) • Green Sea Turtle – Vulnerable (EPBC Act) • Leathery Turtle – Endangered (EPBC Act) • Hawksbill Sea Turtle – Vulnerable (EPBC Act) • Flatback Turtle – Vulnerable (EPBC Act) • Short-nosed sea snake (Critically Endangered EPBC Act) • Sea snakes (15 species) • The Ningaloo Coast Statement of Outstanding Universal Value (IUCN) notes that the area contains high diversity of marine reptiles • Pastoralists actively work to remediate land to build resilience of turtle habitats.

No.	Submitter(s)		Submission and/or issue
	ANON-EG-62 ANON-EG-69 ANON-EG-129 ANON-EG-143		<ul style="list-style-type: none"> • Ningaloo Turtle Program • An increase in reported interactions in recent years, in particular sea snakes, is due to an increased awareness, education and commitment from both crew and skippers to improve reporting.
35	CCG NCWHAC Protect Ningaloo Rangelands NRM ANON-EG-08 ANON-EG-35 ANON-EG-74 ANON-EG-81 ANON-EG-126	ANON-EG-128 ANON-EG-130 ANON-P8JT-DEZ2-U ANON-P8JT-DE9E-D ANON-P8JT-DEHC-T ANON-P8JT-DE31-K ANON-P8JT-DENF-3	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Light pollution impacts turtle hatchlings, the full extent of impact is not known until the turtle reaches sexual maturity (approx. 30 years) • Sea level rise may impact nesting habitat for turtles • Off-road driving may crush turtle nests • Development has the potential to degrade or destroy turtle nesting habitat • Concern that re-development of Exmouth Lighthouse Caravan Park will impact turtle nesting and breeding due to light spill
Marine mammals			
36	APPEA CCG CETREC WA Hon Robin Chapple MLC MG Kailis Group Minderoo Foundation NCWHAC Protect Ningaloo Rangelands NRM Transport ANON-EG-03 ANON-EG-06 ANON-EG-08 ANON-EG-23 ANON-EG-28 ANON-EG-35 ANON-EG-62 ANON-EG-67 ANON-EG-74 ANON-EG-92 ANON-EG-95 ANON-EG-100	ANON-EG-150 ANON-P8JT-DE3V-R ANON-P8JT-DEP2-H ANON-P8JT-DEQR-J ANON-P8JT-DE3S-N ANON-P8JT-DEPC-2 ANON-P8JT-DEPA-Z ANON-P8JT-DEPF-5 ANON-P8JT-DEP6-N ANON-P8JT-DEZ3-V ANON-P8JT-DEZP-S ANON-P8JT-DEZF-F ANON-P8JT-DEPG-6 ANON-P8JT-DEHN-5 ANON-P8JT-DEH1-8 ANON-P8JT-DE49-V ANON-P8JT-DEH8-F ANON-P8JT-DE92-T ANON-P8JT-DEQW-Q ANON-P8JT-DEQE-5 ANON-P8JT-DEQ7-Q ANON-P8JT-DE34-P ANON-P8JT-DE3C-5	<u>Values:</u> <ul style="list-style-type: none"> • Humpback whales – Vulnerable and Migratory (EPBC Act) • Dugong – Migratory (EPBC Act) • Australian humpback dolphins • Indo-Pacific bottlenose dolphins • The Ningaloo Coast Statement of Outstanding Universal Value (IUCN) notes that the area contains high diversity of marine mammals • The Ningaloo-Exmouth Gulf waters have been listed as an important marine mammal area by the IUCN's Protected Areas Task Force • The Exmouth Gulf is an important feeding and nursing/calving area for Australian humpback dolphins, dugongs and Indo-Pacific bottlenose dolphins • The Exmouth Gulf is a significant resting area for female whales and new calves before migration to the Antarctic • Sightings of minke whales, blue whales, false killer whale, killer whales, southern right whales, Omura's whales, snubfin dolphins and pygmy blue whales • Dolphins prefer shallow waters • Whale population numbers in Australian waters are fast approaching pre-commercial whaling numbers

No.	Submitter(s)	Submission and/or issue
	ANON-EG-116 ANON-EG-131 ANON-EG-142 ANON-EG-143 ANON-EG-144 ANON-EG-149	ANON-P8JT-DE3X-T ANON-P8JT-DE3J-C ANON-P8JT-DENE-2 ANON-P8JT-DENF-3 ANON-P8JT-DENC-Z
37	CCG NCWHAC Protect Ningaloo ANON-EG-03 ANON-EG-21 ANON-EG-23 ANON-EG-28 ANON-EG-35 ANON-EG-50 ANON-EG-62 ANON-EG-67 ANON-EG-74 ANON-EG-94 ANON-EG-100 ANON-EG-112 ANON-EG-125 ANON-EG-131 ANON-EG-144 ANON-EG-149 ANON-EG-150 ANON-P8JT-DE3V-R ANON-P8JT-DE3S-N ANON-P8JT-DEPA-Z	ANON-P8JT-DEP7-P ANON-P8JT-DEZ3-V ANON-P8JT-DEZP-S ANON-P8JT-DEZ2-U ANON-P8JT-DEZF-F ANON-P8JT-DE9P-R ANON-P8JT-DE98-Z ANON-P8JT-DEH9-G ANON-P8JT-DEHN-5 ANON-P8JT-DE4Y-V ANON-P8JT-DE4X-U ANON-P8JT-DEQ7-Q ANON-P8JT-DEQ6-P ANON-P8JT-DE3Y-U ANON-P8JT-DE3X-T ANON-P8JT-DENW-M ANON-P8JT-DENF-3 ANON-P8JT-DENA-X
38	APPEA	Industry marine vessels that traverse Exmouth Gulf must adhere to stringent vessel management plans to reduce the potential for interaction between vessels and marine fauna.
Elasmobranchs (sharks and rays)		
39	CCG DPIRD MG Kailis Group Minderoo Foundation NCWHAC	<u>Values:</u> <ul style="list-style-type: none"> • Whale shark – Vulnerable (EPBC Act) • Great white – Vulnerable (EPBC Act) • Grey nurse – Vulnerable (EPBC Act) • Green sawfish – Vulnerable (EPBC Act)

No.	Submitter(s)	Submission and/or issue
	Protect Ningaloo Rangelands NRM ANON-EG-06 ANON-EG-18 ANON-EG-23 ANON-EG-35 ANON-EG-47 ANON-EG-61 ANON-EG-74 ANON-EG-121 ANON-EG-143 ANON-EG-144 ANON-EG-149 ANON-EG-151 ANON-EG-152 ANON-P8JT-DEPG-6 ANON-P8JT-DE3V-R ANON-P8JT-DE3S-N ANON-P8JT-DEPC-2 ANON-P8JT-DEPF-5 ANON-P8JT-DEP6-N ANON-P8JT-DEZF-F ANON-P8JT-DE9E-D ANON-P8JT-DE4W-T ANON-P8JT-DE3N-G	<ul style="list-style-type: none"> • Dwarf sawfish – Vulnerable (EPBC Act) • Bottlenose wedgefish • Giant guitarfish • Great hammerhead • Shark nursery • Shark ray • Ornate eagle ray • Zebra shark • Manta rays (giant and reef) • Shovelnose rays and pupping habitat • Leopard whipray • Sharks and rays (63 different species) • Newly described species of ray called Ningaloo Maskray • The Ningaloo Coast Statement of Outstanding Universal Value (IUCN) notes that the area contains one of the largest documented aggregations of whale sharks in the world • Whale sharks are aggregating in large numbers each year because Exmouth Gulf it is a safe haven • An increase in reported interactions in recent years, in particular sawfish, is due to an increased awareness, education and commitment from both crew and skippers to improve reporting. • Some whale sharks stay in Exmouth Gulf all year round • Exmouth Gulf is potentially a significant reproductive area for elasmobranchs • Habitat for green sawfish include inshore marine waters, estuaries, river mouths, embankments, sandy and muddy beaches. • Exmouth Gulf has a higher elasmobranch biodiversity than Great Barrer Reef Marine Park • Ashburton River is significant for sawfish pupping • Freshwater sawfish are likely to enter the Blina Creek floodplain during the wet season
40	NCWHAC Recfishwest ANON-EG-06 ANON-EG-23 ANON-EG-144 ANON-EG-145 ANON-EG-152 ANON-P8JT-DEPG-6	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Increased rates of shark depredation • Sharks are problematic in heavily fished areas • The presence of prawn trawlers decreases whale shark activity • Increased shipping may cause a decrease in whale shark activity • Management of sharks should be a priority • Development in Exmouth Gulf may impact populations of sawfish

No.	Submitter(s)	Submission and/or issue
	ANON-P8JT-DE3S-N ANON-P8JT-DEPY-R	<ul style="list-style-type: none"> • More research is needed to understand how elasmobranchs use Exmouth Gulf • Vessel strike incidents for manta rays • Development in Exmouth Gulf may impact manta ray migration • Whale shark interactions are intrusive, with spotter planes buzzing overhead and tourists hassling the animals.
Crustaceans		
41	CCG DPIRD Hon Robin Chapple MLC Protect Ningaloo Recfishwest ANON-EG-18 ANON-EG-74 ANON-EG-95 ANON-EG-147 ANON-P8JT-DEPF-5	<u>Values:</u> <ul style="list-style-type: none"> • The Exmouth Gulf contains significant nursery and hatching areas for prawns • Crustaceans (173 species) • Commercially important crustaceans (brown tiger prawns, western king prawns, blue endeavour prawns) • Recreational prawning, crabbing etc • coral prawns • banana prawns • blue swimmer crabs • bugs • mud crabs
42	CCG DPIRD Hon Robin Chapple MLC ANON-EG-149 ANON-EG-98 ANON-P8JT-DEHD-U ANON-P8JT-DE92-T ANON-P8JT-DE3J-C	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Extended periods of elevated temperatures in shallow waters • Decrease in rainfall • Leeuwin Current affects the inshore and offshore water of Exmouth gulf, and is a key factor influencing prawn stocks. • Cyclonic activity can significantly impact shallow prawn nursery habitat, and affect the water quality of the gulf • Climate change • El Nino and La Nina events • Marine heatwaves • Biosecurity • Loss of inshore prawn nursery habitats due to dredging or excavation processes. • Fleets of prawn trawlers • Potential impacts to prawn larvae due to entrainment and changes to salinity regimes from the operations of salt production seawater intake systems and brine releases • Loss of crabs • Development may impact prawn stocks

No.	Submitter(s)	Submission and/or issue
43	DPIRD	<p>The Exmouth Gulf Prawn Managed Fishery target species are brown tiger prawns, western king prawns and blue endeavour prawns.</p> <p>A number of sensitive habitats are contained within the Exmouth Gulf prawn nursery grounds, which are permanently closed to trawling. Juveniles of the three target species spend about three to six months in the inshore nursery grounds before they reach maturity and migrate into deeper, more offshore waters to spawn. Spawning in Exmouth Gulf occurs primarily between May and October, with the peak spawning season varying between the three species, mainly driven by water temperature.</p> <p>The fishery harvest strategy aims to allow prawns to reach optimal market sizes before fishing commences, as well as to provide protection to the spawning stocks through temporal closures of key spawning areas throughout the season.</p>
44	MG Kailis Group	<p>Prawn trawling activities are low impact and environmentally sustainable, with strong protection of vulnerable areas of the shallow Eastern Gulf (~ 40% of the entire Exmouth Gulf).</p> <p>The Exmouth Gulf Managed Prawn fishery is recognised as one of the world's most sustainable being accredited the global 'gold' standard of the Marine Stewardship Council.</p>
Seabirds and Shorebirds		
45	CCG NCWHAC Protect Ningaloo Rangelands NRM Transport ANON-EG-35 ANON-EG-74 ANON-EG-86 ANON-EG-121 ANON-EG-126 ANON-EG-129 ANON-EG-143 ANON-EG-144 ANON-EG-151 ANON-P8JT-DE3S-N ANON-P8JT-DEPC-2 ANON-P8JT-DEPF-5 ANON-P8JT-DEZT-W ANON-P8JT-DEPG-6 ANON-P8JT-DE49-V ANON-P8JT-DEH8-F	<p><u>Values:</u></p> <ul style="list-style-type: none"> • Exmouth gulf contains important migratory bird habitat for breeding, nesting and foraging • Bar-tailed godwit (Vulnerable and Critically Endangered - EPBC Act (depending on subspecies)) • Eastern curlew (Critically Endangered - EPBC Act) • Curlew sandpiper (Critically Endangered - EPBC Act) • Great knot (Critically Endangered - EPBC Act) • Grey-tailed tattler • Pied oystercatcher • Ruddy turnstones • Sanderlings • Sooty Oystercatcher • Terek sandpiper • Significant migratory and resident shore birds, waterbirds and seabirds (95 species) • Sea eagles • Ospreys • There is a wedge-tailed eagle nest in the dunes near Qualing pool • The Ningaloo Coast Statement of Outstanding Universal Value (IUCN) notes that the area contains noteworthy birds – protected migratory and wader species

No.	Submitter(s)	Submission and/or issue
	ANON-P8JT-DE3Q-K ANON-P8JT-DENC-Z	<ul style="list-style-type: none"> • The Spring-Summer months are important for migratory species • Qualing Pool is frequented by migratory and resident shorebirds and seabirds • Exmouth Gulf is recognised as a Key Biodiversity Area by Birdlife International
46	CCG NCWHAC Protect Ningaloo ANON-EG-21 ANON-EG-125 ANON-EG-128 ANON-EG-129 ANON-EG-130 ANON-P8JT-DE3V-R ANON-P8JT-DE9E-D ANON-P8JT-DEQX-R ANON-P8JT-DEQ7-Q ANON-P8JT-DE3X-T ANON-P8JT-DENC-Z	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Increased visitor use in coastal areas may cause disturbance to ground nesting birds (e.g. boobies and terns), trampling of nests and eggs, and crushing of wedge-tailed shearwater burrows, eggs and chicks • Feral predators • Off-road driving (four-wheel drive, motorbikes, dirt bikes, quadbikes) disturbs seabirds and shorebirds • Salt ponds may alter behaviour of resident and migratory seabirds and shorebirds • Extinction and death of seabird and shorebird species • There has already been a decrease in shorebirds due to development • Habitat abandonment due to disturbance
Fish, molluscs and other marine fauna		
47	CCG DPIRD MG Kailis Group Minderoo Foundation NCWHAC Protect Ningaloo Rangelands NRM Recfishwest ANON-EG-06 ANON-EG-18 ANON-EG-35 ANON-EG-62 ANON-EG-66 ANON-EG-74 ANON-EG-92 ANON-EG-95 ANON-EG-101 ANON-EG-141 ANON-EG-145	ANON-P8JT-DEH8-F ANON-P8JT-DE4W-T ANON-P8JT-DE4X-U ANON-P8JT-DEQE-5 <u>Values:</u> <ul style="list-style-type: none"> • The Ningaloo Coast Statement of Outstanding Universal Value (IUCN) notes high diversity of marine fish and invertebrates • Commercially important fish • Recreationally targeted fish (e.g. Barramundi, mangrove jack, giant herring, queenfish, trevally, flathead, whiting, coral trout, red emperor, blue-bone, cod, permit) • Pelagic sports fishing species (e.g. sailfish, juvenile marlin, blue marlin) • Fish nursery areas • Oyster beds • Blacklip pearl oysters • Australian South Sea pearl oyster • Commercial collection of specimen seashells • Muricidae (sea snails) • Volutidae (sea snails) • Teleost fish (790 species) • Gastropods, bivalves and cephalopods (831 species) • Echinoderms (143 species)

No.	Submitter(s)	Submission and/or issue	
	ANON-EG-149 ANON-P8JT-DEPS-J ANON-P8JT-DE3V-R ANON-P8JT-DEPF-5 ANON-P8JT-DEZ3-V ANON-P8JT-DEZW-Z ANON-P8JT-DEZY-2 ANON-P8JT-DEZS-V ANON-P8JT-DEPG-6 ANON-P8JT-DEHZ-H	<ul style="list-style-type: none"> • Seahorses and pipefish • Nudibranchs • Sea cucumbers • Cuttlefish • Heron Point and the Bay of Rest are important recreational and guided fly-fishing locations • Pearl oyster hatcheries at Exmouth supply significant quantities of <i>Pinctada maxima</i> spat to pearl farms in Exmouth Gulf and the Montebello Islands, while several hatcheries supply juvenile <i>Pinctada margaritifera</i> (blacklip pearl oysters) to the bioregion's developing black pearl farms. 	
48	CCG ECCI NCWHAC Protect Ningaloo Recfishwest ANON-EG-03 ANON-EG-12 ANON-EG-29 ANON-EG-37 ANON-EG-39 ANON-EG-47 ANON-EG-49 ANON-EG-62 ANON-EG-74 ANON-EG-85 ANON-EG-86 ANON-EG-87 ANON-EG-89 ANON-EG-92 ANON-EG-93 ANON-EG-94 ANON-EG-100 ANON-EG-101 ANON-EG-106 ANON-EG-112 ANON-EG-122 ANON-EG-123	ANON-P8JT-DEZF-F ANON-P8JT-DEZ5-X ANON-P8JT-DE9Y-1 ANON-P8JT-DE9N-P ANON-P8JT-DE9S-U ANON-P8JT-DE9P-R ANON-P8JT-DE9E-D ANON-P8JT-DE9Z-2 ANON-P8JT-DE9Q-S ANON-P8JT-DE98-Z ANON-P8JT-DE9K-K ANON-P8JT-DE9H-G ANON-P8JT-DEH9-G ANON-P8JT-DEHC-T ANON-P8JT-DEPG-6 ANON-P8JT-DEHA-R ANON-P8JT-DEHX-F ANON-P8JT-DEHN-5 ANON-P8JT-DEHP-7 ANON-P8JT-DEHD-U ANON-P8JT-DEHZ-H ANON-P8JT-DEH1-8 ANON-P8JT-DE44-Q ANON-P8JT-DE4U-R ANON-P8JT-DE4X-U ANON-P8JT-DE4G-A ANON-P8JT-DE4N-H	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Recreational fishing has increased which places pressure on fish stocks • Fish catches have increased but are likely underreported due to increased rates of shark depredation not being included in the reported catch • DPRID has identified one fish species (targeted by recreational fishing) at unsustainable levels in the northern portion of the Gascoyne • Recreational fishing may reduce the abundance of targeted fish species inside and outside of sanctuary zones • Irresponsible recreational fishing – fishing undersized fish, incorrect bag limits, taking too many fish • Commercial and recreational netting and by-catch from netting • Mismanagement of fishing regulations • High turbidity • Strong winds • Closure/restriction of marine areas for oil and gas activities • Access to beach areas for collection of specimen seashells is restricted due to pastoral fencing • Climate change is likely to impact on reproductive success of fish stocks • Development in Exmouth Gulf may impact fish stocks • Overfishing at Tantabiddi • Not enough Fisheries/Marine Officers to police recreational fishers • There are no sanctuary zones in Exmouth Gulf • Large resident grouper are now a rare occurrence • Concerns regarding bycatch from commercial fishing

No.	Submitter(s)	Submission and/or issue	
	ANON-EG-124 ANON-EG-125 ANON-EG-126 ANON-EG-128 ANON-EG-129 ANON-EG-130 ANON-EG-136 ANON-EG-141 ANON-EG-144 ANON-EG-145 ANON-EG-147 ANON-P8JT-DE3S-N ANON-P8JT-DEPY-R ANON-P8JT-DEPS-J ANON-P8JT-DE3V-R ANON-P8JT-DEPV-N ANON-P8JT-DEPW-P ANON-P8JT-DEP7-P ANON-P8JT-DEZY-2	ANON-P8JT-DEQX-R ANON-P8JT-DEQD-4 ANON-P8JT-DEQQ-H ANON-P8JT-DEQ6-P ANON-P8JT-DE34-P ANON-P8JT-DE39-U ANON-P8JT-DE3T-P ANON-P8JT-DE3C-5 ANON-P8JT-DE3A-3 ANON-P8JT-DE3X-T ANON-P8JT-DE3N-G ANON-P8JT-DE3Q-K ANON-P8JT-DE3J-C ANON-P8JT-DE3R-M ANON-P8JT-DEN4-H ANON-P8JT-DE3H-A ANON-P8JT-DENW-M ANON-P8JT-DENA-X	
49	DPIRD	<p>The Exmouth Gulf Prawn Managed Fishery retains cuttlefish, squid, mantis shrimp, octopus and finfish.</p> <p>The fishery bycatch includes echinoderms (including holothurians, sea urchins, sea stars and brittle stars), lizardfish, threadfin breams, goatfish, and trumpeters.</p>	
50	ANON-EG-146	Commercial beach seine fishing operations are regulated by nature – tidal movements, weather conditions and fish migration limit the amount of fishing days so resources cannot be overfished.	
51	Hon Robin Chapple MLC	Locals line-fishing on the coast follow regulations and sizing and represents a marginal pressure on fish stocks.	

Social Surroundings

No.	Submitter(s)	Submission and/or issue
Aboriginal Heritage		
52	CCG CETREC WA DBCA Defence	ANON-EG-102 ANON-EG-103 ANON-EG-109 ANON-EG-121
		<u>Values</u> <ul style="list-style-type: none"> The Exmouth Gulf contains significant Aboriginal cultural and heritage values Cape Range peninsula has a rich history of human occupation going back into the Pleistocene

No.	Submitter(s)	Submission and/or issue	Submission and/or issue
	Hon Robin Chapple MLC Minderoo Foundation NCWHAC Protect Ningaloo Rangelands NRM Subsea 7 Transport ANON-EG-03 ANON-EG-06 ANON-EG-11 ANON-EG-12 ANON-EG-19 ANON-EG-24 ANON-EG-31 ANON-EG-35 ANON-EG-47 ANON-EG-50 ANON-EG-51 ANON-EG-58 ANON-EG-61 ANON-EG-62 ANON-EG-66 ANON-EG-70 ANON-EG-74 ANON-EG-77 ANON-EG-80 ANON-EG-91 ANON-EG-99	ANON-EG-125 ANON-EG-128 ANON-EG-131 ANON-EG-134 ANON-P8JT-DEPY-R ANON-P8JT-DEQ4-M ANON-P8JT-DEPP-F ANON-P8JT-DEP5-M ANON-P8JT-DEZW-Z ANON-P8JT-DEHX-F ANON-P8JT-DEHG-X ANON-P8JT-DEHP-7 ANON-P8JT-DEHD-U ANON-P8JT-DE4G-A ANON-P8JT-DE4N-H ANON-P8JT-DE92-T ANON-P8JT-DEQX-R ANON-P8JT-DEQQ-H ANON-P8JT-DEQK-B ANON-P8JT-DEQ8-R ANON-P8JT-DE3C-5 ANON-P8JT-DEQJ-A ANON-P8JT-DE3Q-K ANON-P8JT-DEN4-H ANON-P8JT-DE3H-A ANON-P8JT-DENW-M ANON-P8JT-DENF-3 ANON-P8JT-DENC-Z ANON-P8JT-DENA-X	<ul style="list-style-type: none"> • Archaeological research has demonstrated the cape was first occupied by humans at least 35,000 years before present. The presence of humans is illustrated by a range of archaeological sites, including rock-shelters containing deposits, coastal shell middens, rock art, and open sites • Burial remains have been located • Cultural significance for the Baiyungu, Thalanyji and Yinikurtura people • Aboriginal people want to preserve the natural assets of Exmouth Gulf • The Bay of Rest was a significant meeting place for indigenous peoples • Traditional owners need and deserve an opportunity to conserve and manage Exmouth Gulf • Archaeological materials have been located on the Pilbara Inshore Islands • Muiron Islands • Qualing Pool • Sites recorded on Kurt and Terminal Islands on the eastern side of Exmouth Gulf • Being on country • Local aboriginal people should be included in decisions regarding development in Exmouth Gulf • Local history – shipwrecked men were helped by local Aboriginal population • Bush tucker (gathering, hunting and fishing) • Culturally significant meeting places
53	CCG ANON-EG-24 ANON-EG-74 ANON-EG-121 ANON-EG-134 ANON-P8JT-DEHW-E ANON-P8JT-DEHD-U ANON-P8JT-DE39-U		<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Coastal development is likely to degrade or destroy important cultural sites and artefacts • Significant archaeological work needs to be done within Exmouth Gulf, particularly on the eastern portion • Previously identified heritage sites at Heron Point appear to have been cleared • Pastoral lease holders are blocking access to Traditional Owners • Development will negatively impact mental health

No.	Submitter(s)	Submission and/or issue
	ANON-P8JT-DENF-3	<ul style="list-style-type: none"> Government and pastoralists have historically tried to remove Traditional Owners from Exmouth
Anglocentric heritage		
54	CCG Defence MG Kailis Group NCWHAC PPA Protect Ningaloo Rangelands NRM ANON-EG-35 ANON-EG-48	ANON-EG-74 ANON-P8JT-DEHG-X ANON-P8JT-DEHD-U ANON-P8JT-DE4G-A ANON-P8JT-DE3X-T ANON-P8JT-DEQJ-A ANON-P8JT-DE3Q-K <u>Values:</u> <ul style="list-style-type: none"> The Naval Communication Station Harold E Holt and RAAF Base are listed as part of the World Heritage List and/or National Heritage List, which are MNES Fishing heritage Military heritage Pastoral heritage The Mowbowra Creek area has notable cultural heritage values Shipwrecks (e.g. Stefano wreck from 1875)
55	ANON-P8JT-DEHD-U	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> Development may degrade heritage values
56	MG Kailis Group	There are potential opportunities to establish fishing heritage tourism activities.
57	CCG	There is a potential opportunity to create a heritage trail at Mowbowra Creek.
National heritage		
58	CCG NCWHAC PPA Protect Ningaloo Rangelands NRM ANON-EG-17 ANON-EG-19 ANON-EG-20 ANON-EG-34 ANON-EG-35 ANON-EG-37 ANON-EG-41 ANON-EG-48 ANON-EG-50 ANON-EG-67 ANON-EG-74 ANON-EG-82 ANON-EG-87	ANON-EG-91 ANON-EG-121 ANON-EG-129 ANON-EG-144 ANON-P8JT-DEQR-J ANON-P8JT-DEPV-N ANON-P8JT-DEPQ-G ANON-P8JT-DEZW-Z ANON-P8JT-DE9E-D ANON-P8JT-DEH8-F ANON-P8JT-DE4W-T ANON-P8JT-DE4X-U ANON-P8JT-DE4G-A ANON-P8JT-DEQB-2 ANON-P8JT-DE3Q-K ANON-P8JT-DE3H-A ANON-P8JT-DENF-3 <u>Values:</u> <ul style="list-style-type: none"> The Ningaloo Coast became a World Heritage Area in 2011 in recognition of its outstanding universal value under the World Heritage Criteria: <ul style="list-style-type: none"> to contain superlative natural phenomena or areas of exceptional natural beauty and aesthetic importance to contain the most important and significant natural habitats for in-situ conservation of biological diversity, including those containing threatened species of outstanding universal value from the point of view of science or conservation The Ningaloo Coast Statement of Outstanding Universal Value (IUCN) notes the exceptional landscape combining arid terrestrial and marine features Ningaloo Coast World Heritage Area (including Murion Islands) Ningaloo (Commonwealth) Marine Park Ningaloo (State) Marine Park Cape Range National Park Pilbara Inshore Islands Reserve area Geological landscapes (e.g. limestone, calcrete, sandstone)
59	NCWHAC	<u>Potential and current pressures:</u>

No.	Submitter(s)	Submission and/or issue
	ANON-EG-74 ANON-EG-124 ANON-P8JT-DEQR-J ANON-P8JT-DEZW-Z ANON-P8JT-DE9E-D ANON-P8JT-DEHP-7 ANON-P8JT-DE4X-U	<ul style="list-style-type: none"> Fragmented planning and policy can lead to decisions being made without regard for direct and cumulative impacts on the World Heritage values Invasive species (land and marine) Cumulative impacts on World Heritage values (development, noise, tourism activities, commercial shipping, pollution etc) Development of Exmouth Gulf will lead to degraded World Heritage values Unmanaged tourism is causing degradation of the World Heritage values
Economic		
60	APPEA CCG Defence DPIRD ECCI Hon Robin Chapple MLC MG Kailis Group Minderoo Foundation NCWHAC Protect Ningaloo Recfishwest ANON-EG-02 ANON-EG-04 ANON-EG-09 ANON-EG-14 ANON-EG-16 ANON-EG-19 ANON-EG-23 ANON-EG-24 ANON-EG-27 ANON-EG-28 ANON-EG-31 ANON-EG-34 ANON-EG-35 ANON-EG-36 ANON-EG-43 ANON-EG-45	ANON-EG-151 ANON-P8JT-DEQ4-M ANON-P8JT-DEP2-H ANON-P8JT-DEPS-J ANON-P8JT-DEPC-2 ANON-P8JT-DEPF-5 ANON-P8JT-DEPQ-G ANON-P8JT-DEP7-P ANON-P8JT-DEP1-G ANON-P8JT-DEPR-H ANON-P8JT-DEZT-W ANON-P8JT-DEZW-Z ANON-P8JT-DEZY-2 ANON-P8JT-DEZP-S ANON-P8JT-DEZ2-U ANON-P8JT-DEZF-F ANON-P8JT-DEZ7-Z ANON-P8JT-DE95-W ANON-P8JT-DE9Q-S ANON-P8JT-DE9K-K ANON-P8JT-DEHC-T ANON-P8JT-DEHA-R ANON-P8JT-DEHX-F ANON-P8JT-DEHG-X ANON-P8JT-DEHF-W ANON-P8JT-DEHD-U ANON-P8JT-DEHZ-H ANON-P8JT-DE4U-R
		<u>Values:</u> <ul style="list-style-type: none"> Exmouth Gulf hosts a range of recreational and charter fishing operations, and marine tourism, with the Exmouth Gulf community benefiting from the economic input brought by these sectors The values of Exmouth Gulf provide diverse tourism activities that supports the economy and livelihood of the people in the region The Exmouth natural values provide significant revenue from tourism, aquaculture, research and scientific opportunities The Exmouth region is a world class tourism destination Defence facilities in the Exmouth Gulf region play important roles in naval communications, air operations, air and land exercises, and space and solar observation Defence allows eco-tourism activities to be based on Point Murat Navy Pier via a lease to a commercial scuba diving company The Exmouth Gulf Prawn Managed Fishery is an important regional employer in the Exmouth area, contributing to the economic viability of the Exmouth township Prawn trawling has operated in Exmouth Gulf since 1963 The aquaculture industry in Exmouth Gulf is largely the production of pearl oysters and prawns Exploration and appraisal-drilling for oil and gas has mainly occurred in the northern part of the Bioregion, near Exmouth Gulf, with oil and gas activity offshore of the North West Cape in the Exmouth Sub-basin over the past 20 years The offshore oil and gas industry use Exmouth as a local base and it is part of the economic fabric of the community that is sensitive to environmental, social and cultural values of the area The offshore oil and gas industry coexist in the Exmouth Gulf within other industries in the region, e.g. tourism, fishing and agriculture

No.	Submitter(s)	Submission and/or issue	Submission and/or issue
	ANON-EG-60 ANON-EG-61 ANON-EG-65 ANON-EG-66 ANON-EG-70 ANON-EG-74 ANON-EG-83 ANON-EG-87 ANON-EG-96 ANON-EG-98 ANON-EG-100 ANON-EG-108 ANON-EG-110 ANON-EG-114 ANON-EG-118 ANON-EG-119 ANON-EG-122 ANON-EG-124 ANON-EG-128 ANON-EG-129 ANON-EG-131 ANON-EG-133 ANON-EG-136 ANON-EG-141 ANON-EG-145 ANON-EG-146 ANON-EG-147 ANON-EG-149 ANON-EG-150	ANON-P8JT-DEH8-F ANON-P8JT-DE4A-4 ANON-P8JT-DE4P-K ANON-P8JT-DE45-R ANON-P8JT-DE92-T ANON-P8JT-DEQW-Q ANON-P8JT-DEQA-1 ANON-P8JT-DEQX-R ANON-P8JT-DEQB-2 ANON-P8JT-DEQ2-J ANON-P8JT-DEQM-D ANON-P8JT-DEQQ-H ANON-P8JT-DE34-P ANON-P8JT-DEQ8-R ANON-P8JT-DE3C-5 ANON-P8JT-DE3N-G ANON-P8JT-DEQJ-A ANON-P8JT-DEQ9-S ANON-P8JT-DE3Q-K ANON-P8JT-DE3R-M ANON-P8JT-DEN4-H ANON-P8JT-DENE-2 ANON-P8JT-DE31-K ANON-P8JT-DENW-M ANON-P8JT-DEN9-P ANON-P8JT-DENF-3 ANON-P8JT-DENC-Z ANON-P8JT-DENA-X	<ul style="list-style-type: none"> • The offshore oil and gas industry contributes to the Exmouth community through investment in marine research, support for local businesses, partnerships in cultural activities such as the Exmouth Cultural Arts Centre and Ningaloo Whaleshark Program, sponsorship of Exmouth GAMEX fishing competition, and working across government and industry to support innovative projects • There are currently three oil fields operating in/near the Exmouth Gulf area via Floating Production Storage Offtake Facilities: BHP's Pyrenees, Santos' Ningaloo Vision, and Woodside's Ngujima-Yin • There are also planned periodic maintenance works and drilling activities undertaken in the Exmouth Gulf area • The offshore oil and gas industry rely on support services such as aviation, and smaller support vessels from Exmouth • Commercial beach seine fishing operations function within Exmouth Gulf • Commercial collection of specimen seashells • Guided fly-fishing tours are undertaken within the Exmouth Gulf • Whale watching tours are low impact activities • The Flourishing Oceans initiative, including the Minderoo Exmouth Research Laboratory which is in partnership with WA universities and WA based science agencies
61	APPEA BDEC CCG CETREC WA Defence ECCI Hon Robin Chapple MLC	ANON-EG-149 ANON-EG-150 ANON-EG-151 ANON-P8JT-DEPS-J ANON-P8JT-DEPY-R ANON-P8JT-DE3V-R ANON-P8JT-DEQ4-M ANON-P8JT-DEP2-H	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Activities in Exmouth Gulf are unregulated and current environmental pressures are poorly managed • Tourism numbers increasing to unsustainable levels • Allowing eco-tourism activities on the Point Murat Navy Pier is a long-standing arrangement, but its future depends on the ongoing health of the marine environment inside Exmouth Gulf • Increase in water traffic and use of primary boating access points

No.	Submitter(s)	Submission and/or issue	Submission and/or issue
	MG Kailis Group Minderoo Foundation NCWHAC Protect Ningaloo Rangelands NRM Recfishwest Subsea 7 ANON-EG-01 ANON-EG-02 ANON-EG-03 ANON-EG-04 ANON-EG-05 ANON-EG-06 ANON-EG-08 ANON-EG-10 ANON-EG-11 ANON-EG-12 ANON-EG-13 ANON-EG-14 ANON-EG-15 ANON-EG-17 ANON-EG-19 ANON-EG-20 ANON-EG-23 ANON-EG-26 ANON-EG-27 ANON-EG-28 ANON-EG-29 ANON-EG-30 ANON-EG-33 ANON-EG-34 ANON-EG-37 ANON-EG-39 ANON-EG-41 ANON-EG-42 ANON-EG-43 ANON-EG-46 ANON-EG-47	ANON-P8JT-DEQR-J ANON-P8JT-DEHR-9 ANON-P8JT-DEP9-R ANON-P8JT-DEPV-N ANON-P8JT-DEPW-P ANON-P8JT-DEPA-Z ANON-P8JT-DEPF-5 ANON-P8JT-DEPN-D ANON-P8JT-DEPZ-S ANON-P8JT-DEPQ-G ANON-P8JT-DEP7-P ANON-P8JT-DEZ3-V ANON-P8JT-DEZT-W ANON-P8JT-DEZW-Z ANON-P8JT-DEZV-Y ANON-P8JT-DEZE-E ANON-P8JT-DEZY-2 ANON-P8JT-DEZX-1 ANON-P8JT-DEZG-G ANON-P8JT-DEZP-S ANON-P8JT-DEZF-F ANON-P8JT-DEZ2-U ANON-P8JT-DEZ5-X ANON-P8JT-DEZQ-T ANON-P8JT-DEZ7-Z ANON-P8JT-DE9W-Y ANON-P8JT-DE9Y-1 ANON-P8JT-DE9G-F ANON-P8JT-DE9S-U ANON-P8JT-DE9P-R ANON-P8JT-DE9E-D ANON-P8JT-DE9Z-2 ANON-P8JT-DE9Q-S ANON-P8JT-DE97-Y ANON-P8JT-DE9K-K ANON-P8JT-DE9H-G ANON-P8JT-DE96-X ANON-P8JT-DEHW-E	<ul style="list-style-type: none"> • Large watercrafts requiring specialised mooring • Creation of a luxury resort and high-end tourism developments (e.g. redevelopment of the Exmouth Lighthouse Caravan Park) • Changes to infrastructure (e.g. roads) through sensitive areas to accommodate development • Gascoyne Gateway project • Subsea 7 • Limestone mining • SapuraOMV Eagle-1 petroleum drilling program • Woodside Greater Enfield tieback works • Project Sea Dragon (prawn export) • Mooring and loading • Oil and gas exploration/development (including seismic surveys) • The oil and gas industry have a record of non-compliance in Exmouth Gulf, including informal use of the Gulf • Increased visitation will result in increased wear and tear on infrastructure (e.g. boat ramps, resorts, more roads) • An increase in truck movements through Exmouth will lead to greater GHG emissions • Concern that increased industrialisation of Exmouth Gulf will hamper fish migrations and compromise commercial fishing operations • Fragmentation of habitats by poorly planned developments will further impact ecosystem resilience through loss of connectivity and impairment of recovery processes • Privately run nature-based camping facilities • Defence activities • Sulphate of potash mining (proposed Wyloo Metals – Whalebone Project) • Ashburton salt mine/salt farm/salt evaporation project • Pastoral lease activities (e.g. farming, keeping livestock) • Cruise ships • Increased shipping movements through Exmouth Gulf • Increased recreational and commercial fishing • Increased aquaculture farms (onshore and offshore) • Increased tourism activities, including megafauna tourism (e.g. whale watching) • Oil and gas activities in and near the Exmouth Gulf have decreased over the past 20 years

No.	Submitter(s)	Submission and/or issue
ANON-EG-48 ANON-EG-49 ANON-EG-50 ANON-EG-52 ANON-EG-53 ANON-EG-54 ANON-EG-55 ANON-EG-58 ANON-EG-59 ANON-EG-60 ANON-EG-61 ANON-EG-62 ANON-EG-66 ANON-EG-67 ANON-EG-68 ANON-EG-69 ANON-EG-70 ANON-EG-72 ANON-EG-73 ANON-EG-74 ANON-EG-78 ANON-EG-80 ANON-EG-81 ANON-EG-82 ANON-EG-85 ANON-EG-86 ANON-EG-87 ANON-EG-88 ANON-EG-89 ANON-EG-91 ANON-EG-92 ANON-EG-93 ANON-EG-94 ANON-EG-95 ANON-EG-96 ANON-EG-97 ANON-EG-98 ANON-EG-99	ANON-P8JT-DEH9-G ANON-P8JT-DEHC-T ANON-P8JT-DEPG-6 ANON-P8JT-DEHA-R ANON-P8JT-DEHX-F ANON-P8JT-DEHG-X ANON-P8JT-DEHF-W ANON-P8JT-DEHN-5 ANON-P8JT-DEHM-4 ANON-P8JT-DEHP-7 ANON-P8JT-DEHD-U ANON-P8JT-DEHZ-H ANON-P8JT-DEH1-8 ANON-P8JT-DEHK-2 ANON-P8JT-DE44-Q ANON-P8JT-DE4T-Q ANON-P8JT-DE49-V ANON-P8JT-DE4U-R ANON-P8JT-DEH8-F ANON-P8JT-DE4W-T ANON-P8JT-DE4X-U ANON-P8JT-DE4A-4 ANON-P8JT-DE4F-9 ANON-P8JT-DE4G-A ANON-P8JT-DE4N-H ANON-P8JT-DE4P-K ANON-P8JT-DE45-R ANON-P8JT-DE4Z-W ANON-P8JT-DE47-T ANON-P8JT-DE4K-E ANON-P8JT-DE92-T ANON-P8JT-DEQW-Q ANON-P8JT-DEQC-3 ANON-P8JT-DEQE-5 ANON-P8JT-DEQA-1 ANON-P8JT-DEQX-R ANON-P8JT-DEQD-4	<ul style="list-style-type: none"> • Unregulated tourism activities damage the environment more than industry development • The Exmouth economy is currently very reliant on tourism, which was impacted due to COVID-19 • Concern that further industrialisation will lead to Exmouth Gulf to become an extension of the Pilbara industrial complex • Privatization of beaches • Oil and gas companies and pastoral lease owners restricting access to areas used for commercial specimen shell collection • Reef health is vital to continued tourism • Increased industrialisation will negatively impact tourism • Increased industrialisation will impact biological research programs • Increased industrialisation will impact family-run businesses that operate in the area • Cumulative impacts from industrialisation and increasing anthropogenic use of Exmouth Gulf • Campsite developments between Point Lefroy and Osprey Point • Increased residential housing and density

No.	Submitter(s)		Submission and/or issue
	ANON-EG-132	ANON-P8JT-DEQM-D	
	ANON-EG-133	ANON-P8JT-DEQP-G	
	ANON-EG-136	ANON-P8JT-DEQ5-N	
	ANON-EG-137	ANON-P8JT-DEQ7-Q	
	ANON-EG-138	ANON-P8JT-DEQQ-H	
	ANON-EG-140	ANON-P8JT-DEH5-C	
	ANON-EG-141	ANON-P8JT-DEQ6-P	
	ANON-EG-142	ANON-P8JT-DEQK-B	
	ANON-EG-143	ANON-P8JT-DE34-P	
	ANON-EG-100	ANON-P8JT-DE34-P	
	ANON-EG-101	ANON-P8JT-DEQ8-R	
	ANON-EG-103	ANON-P8JT-DE39-U	
	ANON-EG-104	ANON-P8JT-DE3T-P	
	ANON-EG-106	ANON-P8JT-DE3C-5	
	ANON-EG-109	ANON-P8JT-DE3Y-U	
	ANON-EG-111	ANON-P8JT-DE3A-3	
	ANON-EG-112	ANON-P8JT-DE3X-T	
	ANON-EG-114	ANON-P8JT-DE3N-G	
	ANON-EG-115	ANON-P8JT-DE3P-J	
	ANON-EG-116	ANON-P8JT-DEQJ-A	
	ANON-EG-118	ANON-P8JT-DE32-M	
	ANON-EG-119	ANON-P8JT-DEQ9-S	
	ANON-EG-121	ANON-P8JT-DE3Q-K	
	ANON-EG-123	ANON-P8JT-DE3J-C	
	ANON-EG-124	ANON-P8JT-DE36-R	
	ANON-EG-125	ANON-P8JT-DE3R-M	
	ANON-EG-126	ANON-P8JT-DEN4-H	
	ANON-EG-127	ANON-P8JT-DE3H-A	
	ANON-EG-128	ANON-P8JT-DEQY-S	
	ANON-EG-129	ANON-P8JT-DENE-2	
	ANON-EG-130	ANON-P8JT-DE31-K	
	ANON-EG-131	ANON-P8JT-DENB-Y	
	ANON-EG-144	ANON-P8JT-DENW-M	
	ANON-EG-145	ANON-P8JT-DE37-S	
	ANON-EG-146	ANON-P8JT-DENF-3	
	ANON-EG-147	ANON-P8JT-DENC-Z	
		ANON-P8JT-DENA-X	

No.	Submitter(s)	Submission and/or issue
62	APPEA ECCI Subsea 7 ANON-EG-09 ANON-P8JT-DEHR-9 ANON-P8JT-DE95-W	<u>Support of industry comments:</u> <ul style="list-style-type: none"> • The Exmouth community wants to build a strong, diverse and sustainable local economy that can provide employment opportunities year-round • Building a diverse economy while protecting the natural environment • The Exmouth community supports low impact activities including industry in the region • There is a silent majority of Exmouth locals who want to see development in the region • There is a strong need for development in the Exmouth region • There needs to be a stop to “Not-in-my-backyard” culture when it comes to industry development • Only people who live in Exmouth should have input as to whether or not industry should go ahead • Development in Exmouth Gulf would lead to the establishment of proper vessel management and movement in Exmouth Gulf, which is currently unregulated • Development would provide immediate response capabilities in the event of a marine incident or emergency within Exmouth Gulf • Development will lead to investment in renewable energy for the Exmouth community (e.g. solar plant) • Development will lead to the construction and operation of a reverse osmosis plant to produce additional water resources for the Exmouth community • Jobs and skills for the Exmouth community • Development of industry in Exmouth presents a more sustainable option compared to tourism • Development in Exmouth Gulf can exist harmoniously with local tourism and recreational uses • Only smaller support vessels are currently available to service the offshore oil and gas industry via Exmouth Marina. Larger offshore support vessels service the bulk of the industry and are required to depart from Karratha and Dampier due to the lack of a large deep-water port in the Exmouth region
63	BDEC CCG CETREC WA Hon Robin Chapple MLC MG Kailis Group Protect Ningaloo	ANON-EG-119 ANON-EG-121 ANON-EG-128 ANON-EG-129 ANON-EG-131 ANON-EG-132 ANON-EG-133 <u>Opposition of industry comments:</u> <ul style="list-style-type: none"> • The Exmouth community supports low impact tourism ventures, not industrialisation • Job creation should focus on tourism opportunities and environmental management • The Exmouth community does not want the town to be a mining/industrial based like towns in the Pilbara • Allowing any of the proposed projects to proceed within Exmouth Gulf will open the door to further industrialisation

No.	Submitter(s)	Submission and/or issue	Submission and/or issue
	Rangelands NRM ANON-EG-02 ANON-EG-03 ANON-EG-08 ANON-EG-09 ANON-EG-10 ANON-EG-11 ANON-EG-12 ANON-EG-13 ANON-EG-14 ANON-EG-17 ANON-EG-20 ANON-EG-21 ANON-EG-27 ANON-EG-29 ANON-EG-30 ANON-EG-32 ANON-EG-34 ANON-EG-35 ANON-EG-36 ANON-EG-37 ANON-EG-38 ANON-EG-39 ANON-EG-40 ANON-EG-41 ANON-EG-45 ANON-EG-48 ANON-EG-50 ANON-EG-51 ANON-EG-52 ANON-EG-54 ANON-EG-57 ANON-EG-58 ANON-EG-59 ANON-EG-60 ANON-EG-64 ANON-EG-65 ANON-EG-66	ANON-EG-137 ANON-EG-140 ANON-EG-141 ANON-EG-143 ANON-EG-145 ANON-EG-146 ANON-P8JT-DE3S-N ANON-P8JT-DEPY-R ANON-P8JT-DE3V-R ANON-P8JT-DEPV-N ANON-P8JT-DEPW-P ANON-P8JT-DEPF-5 ANON-P8JT-DEPN-D ANON-P8JT-DEPP-F ANON-P8JT-DEP5-M ANON-P8JT-DEP7-P ANON-P8JT-DEPR-H ANON-P8JT-DEP6-N ANON-P8JT-DEZE-E ANON-P8JT-DEZY-2 ANON-P8JT-DEZX-1 ANON-P8JT-DEZG-G ANON-P8JT-DEZS-V ANON-P8JT-DEZP-S ANON-P8JT-DEZF-F ANON-P8JT-DEZ2-U ANON-P8JT-DEZ5-X ANON-P8JT-DEZQ-T ANON-P8JT-DE9W-Y ANON-P8JT-DE9N-P ANON-P8JT-DE9P-R ANON-P8JT-DE9E-D ANON-P8JT-DE9H-G ANON-P8JT-DEH9-G ANON-P8JT-DEHC-T ANON-P8JT-DEHF-W ANON-P8JT-DEHM-4	<ul style="list-style-type: none"> • Decisions made by the Shire of Exmouth do not reflect the will and aspirations of the local community • Industry money should not be prioritised over the people who live in Exmouth • There is no need for an additional port to bring in fuel tankers, as they already use the existing infrastructure at the Naval Base at Point Murat • The existing jetty at Point Murat could be upgraded which would negate the need for a few port facility • The presence of prawn trawling in Exmouth Gulf should not lead to its further industrialisation • The oil and gas industry see Exmouth Gulf as a cheap place to establish business due to the fact it is undeveloped • Carnarvon has a large transport network that could be a viable alternative to building a multi-use port at Exmouth • One Mile Jetty could be upgraded to facilitate essential shipping • Most private yachts that visit Exmouth can use the existing marina wharf • The Exmouth community should focus on development of renewable energy • COVID-19 has destroyed the cruise ship industry which may lead to poor investments in Exmouth and re-introduction/spread of the virus into the Exmouth region • Industry will create additional waste and pollution that the community will need to manage • Exmouth should not support profit at a cost to the environment • Developers have no interest in living in Exmouth • The Exmouth economy can survive solely on tourism • There is no such thing as a 'green' port

No.	Submitter(s)		Submission and/or issue
	ANON-EG-67 ANON-EG-68 ANON-EG-69 ANON-EG-71 ANON-EG-73 ANON-EG-74 ANON-EG-77 ANON-EG-83 ANON-EG-85 ANON-EG-87 ANON-EG-90 ANON-EG-91 ANON-EG-92 ANON-EG-93 ANON-EG-95 ANON-EG-96 ANON-EG-97 ANON-EG-98 ANON-EG-99 ANON-EG-100 ANON-EG-102 ANON-EG-103 ANON-EG-104 ANON-EG-105 ANON-EG-114 ANON-EG-116 ANON-EG-118	ANON-P8JT-DEHJ-1 ANON-P8JT-DEHK-2 ANON-P8JT-DEH8-F ANON-P8JT-DE4Y-V ANON-P8JT-DE4F-9 ANON-P8JT-DE4G-A ANON-P8JT-DE45-R ANON-P8JT-DE4K-E ANON-P8JT-DE92-T ANON-P8JT-DEQW-Q ANON-P8JT-DEQA-1 ANON-P8JT-DEQP-G ANON-P8JT-DEQ5-N ANON-P8JT-DEH5-C ANON-P8JT-DE34-P ANON-P8JT-DEQ8-R ANON-P8JT-DE39-U ANON-P8JT-DE3T-P ANON-P8JT-DE3C-5 ANON-P8JT-DE3X-T ANON-P8JT-DE3P-J ANON-P8JT-DEQ9-S ANON-P8JT-DE36-R ANON-P8JT-DE3H-A ANON-P8JT-DEQY-S ANON-P8JT-DE31-K ANON-P8JT-DEN9-P ANON-P8JT-DENF-3	
64	CCG ECCI ANON-EG-21 ANON-EG-40 ANON-EG-74 ANON-P8JT-DEHR-9 ANON-P8JT-DE4K-E ANON-P8JT-DE3T-P		Development in the Exmouth region is a divisive issue among the local community.
65	MG Kailis Group		Prawn trawling and processing has long-standing connections to the Exmouth community.

No.	Submitter(s)		Submission and/or issue
66	Tourism WA		<p><u>Tourism opportunities through cruise ships:</u></p> <ul style="list-style-type: none"> • Exmouth lacks reliable port marine infrastructure • Development of reliable berthing infrastructure will provide economic and industry diversification for the Gascoyne region • Cruise ships often cancel passenger shore visits during poor weather and ocean conditions in Exmouth, costing the local economy each time a cruise ship cancels • Smaller high-end expedition cruise lines are keen to include Exmouth in cruise itineraries • Expedition cruises are environmentally minded and can utilise Dynamic Positioning systems that allow vessels to stay in place without having to use anchors
67	Transport		<p>The Gascoyne Development Commission is investigating locations of multi-use marine infrastructure in Exmouth (Cruise ships, super yachts, and other vessels). The preferred options accommodate a deep-water wharf, serviced by either a rock causeway or piled jetty structure and extending from the northern breakwater of the Exmouth Boat Harbour.</p>
68	APPEA		<p>The offshore oil and gas industry that operates in and near the Exmouth Gulf goes to great lengths to ensure the environment is protected, and environmental risks are appropriately managed and monitored. The industry is subject to stringent environmental assessment and approval provisions under both State and Commonwealth legislation.</p>
Amenity (aesthetic and intrinsic values)			
69	BDEC CCG CETREC WA ECCI Hon Robin Chapple MLC MG Kailis Group NCWHAC Protect Ningaloo Recfishwest Rangelands NRM Subsea 7 ANON-EG-01 ANON-EG-03 ANON-EG-05 ANON-EG-06 ANON-EG-07	ANON-EG-137 ANON-EG-138 ANON-EG-140 ANON-EG-141 ANON-EG-142 ANON-EG-143 ANON-EG-144 ANON-EG-145 ANON-EG-146 ANON-EG-147 ANON-P8JT-DEQ4-M ANON-P8JT-DEQR-J ANON-P8JT-DE3S-N ANON-P8JT-DEPY-R ANON-P8JT-DE3V-R ANON-P8JT-DEP9-R ANON-P8JT-DEPV-N	<p><u>Values:</u></p> <ul style="list-style-type: none"> • The Exmouth Gulf is an invaluable and irreplaceable natural area • The natural environment and outstanding universal values of the Ningaloo Coast forms the basis for quality of life enjoyed by the Exmouth local residents • The Ningaloo Coast Statement of Outstanding Universal Value (IUCN) notes the exceptional landscape combining arid terrestrial and marine features • Pristine/wilderness/unspoilt/untouched perception of the Exmouth Gulf • The Exmouth community and visitors to the region feel a great sense of stewardship/custodianship due to natural beauty • The Exmouth community supports retention of Exmouth Gulf's relatively underdeveloped character • Social values of the community are tied to the natural values of Exmouth • Exmouth is a safe and family friendly community • Interacting with the Exmouth Gulf is part of the local culture and social wellbeing • Lifestyle • Unique values

No.	Submitter(s)	Submission and/or issue
ANON-EG-08 ANON-EG-10 ANON-EG-12 ANON-EG-13 ANON-EG-14 ANON-EG-16 ANON-EG-17 ANON-EG-18 ANON-EG-19 ANON-EG-20 ANON-EG-21 ANON-EG-24 ANON-EG-25 ANON-EG-26 ANON-EG-27 ANON-EG-28 ANON-EG-29 ANON-EG-30 ANON-EG-33 ANON-EG-34 ANON-EG-36 ANON-EG-39 ANON-EG-40 ANON-EG-41 ANON-EG-42 ANON-EG-43 ANON-EG-47 ANON-EG-48 ANON-EG-49 ANON-EG-50 ANON-EG-51 ANON-EG-52 ANON-EG-53 ANON-EG-55 ANON-EG-57 ANON-EG-59 ANON-EG-60 ANON-EG-61	ANON-P8JT-DEPW-P ANON-P8JT-DEPA-Z ANON-P8JT-DEPF-5 ANON-P8JT-DEPN-D ANON-P8JT-DEPP-F ANON-P8JT-DEPZ-S ANON-P8JT-DEPQ-G ANON-P8JT-DEP7-P ANON-P8JT-DEPR-H ANON-P8JT-DEP6-N ANON-P8JT-DEZW-Z ANON-P8JT-DEZV-Y ANON-P8JT-DEZE-E ANON-P8JT-DEZX-1 ANON-P8JT-DEZS-V ANON-P8JT-DEZP-S ANON-P8JT-DEZ2-U ANON-P8JT-DEZF-F ANON-P8JT-DEZ5-X ANON-P8JT-DEZQ-T ANON-P8JT-DE9Y-1 ANON-P8JT-DE9G-F ANON-P8JT-DE9N-P ANON-P8JT-DE9B-A ANON-P8JT-DE9P-R ANON-P8JT-DE9E-D ANON-P8JT-DE9Z-2 ANON-P8JT-DE97-Y ANON-P8JT-DE9K-K ANON-P8JT-DE9H-G ANON-P8JT-DEH9-G ANON-P8JT-DEHC-T ANON-P8JT-DEPG-6 ANON-P8JT-DEHA-R ANON-P8JT-DEHG-X ANON-P8JT-DEHF-W ANON-P8JT-DEHM-4 ANON-P8JT-DEHP-7	<ul style="list-style-type: none"> • Spiritual connection • Natural wonder • Minimal design • Psychological benefits and sustaining mental health (e.g. lowering stress levels and blood pressure) • Aesthetic values (e.g. natural vistas and seascapes) • Iconic global values • Education values • Remote and undeveloped • Fragile environment • Rugged terrain • Peaceful

No.	Submitter(s)		Submission and/or issue
	ANON-EG-63	ANON-P8JT-DEHJ-1	
	ANON-EG-64	ANON-P8JT-DEHD-U	
	ANON-EG-66	ANON-P8JT-DEHZ-H	
	ANON-EG-69	ANON-P8JT-DEH8-F	
	ANON-EG-70	ANON-P8JT-DE4Y-V	
	ANON-EG-71	ANON-P8JT-DE4W-T	
	ANON-EG-72	ANON-P8JT-DE4X-U	
	ANON-EG-73	ANON-P8JT-DE4A-4	
	ANON-EG-74	ANON-P8JT-DE45-R	
	ANON-EG-80	ANON-P8JT-DE4Z-W	
	ANON-EG-81	ANON-P8JT-DE47-T	
	ANON-EG-82	ANON-P8JT-DE4K-E	
	ANON-EG-83	ANON-P8JT-DE92-T	
	ANON-EG-85	ANON-P8JT-DEQW-Q	
	ANON-EG-86	ANON-P8JT-DEQC-3	
	ANON-EG-87	ANON-P8JT-DEQA-1	
	ANON-EG-88	ANON-P8JT-DEQX-R	
	ANON-EG-89	ANON-P8JT-DEQB-2	
	ANON-EG-91	ANON-P8JT-DEQ2-J	
	ANON-EG-92	ANON-P8JT-DEQM-D	
	ANON-EG-93	ANON-P8JT-DEQ5-N	
	ANON-EG-94	ANON-P8JT-DEQ7-Q	
	ANON-EG-95	ANON-P8JT-DEH5-C	
	ANON-EG-96	ANON-P8JT-DEQ6-P	
	ANON-EG-98	ANON-P8JT-DE34-P	
	ANON-EG-99	ANON-P8JT-DEQ8-R	
	ANON-EG-100	ANON-P8JT-DE39-U	
	ANON-EG-101	ANON-P8JT-DE3T-P	
	ANON-EG-103	ANON-P8JT-DE3C-5	
	ANON-EG-105	ANON-P8JT-DE3A-3	
	ANON-EG-108	ANON-P8JT-DE3X-T	
	ANON-EG-109	ANON-P8JT-DE3P-J	
	ANON-EG-110	ANON-P8JT-DEQJ-A	
	ANON-EG-111	ANON-P8JT-DE32-M	
	ANON-EG-114	ANON-P8JT-DE3M-F	
	ANON-EG-115	ANON-P8JT-DE3Q-K	
	ANON-EG-118	ANON-P8JT-DE3J-C	
	ANON-EG-119	ANON-P8JT-DE3H-A	

No.	Submitter(s)		Submission and/or issue
	ANON-EG-121 ANON-EG-125 ANON-EG-126 ANON-EG-128 ANON-EG-129 ANON-EG-130 ANON-EG-131 ANON-EG-132 ANON-EG-136	ANON-P8JT-DENE-2 ANON-P8JT-DE31-K ANON-P8JT-DENB-Y ANON-P8JT-DENW-M ANON-P8JT-DEN9-P ANON-P8JT-DE37-S ANON-P8JT-DENF-3 ANON-P8JT-DENC-Z ANON-P8JT-DENA-X	
70	CCG Defence MG Kailis Group NCWHAC Protect Ningaloo Rangelands NRM Recfishwest ANON-EG-03 ANON-EG-06 ANON-EG-24 ANON-EG-30 ANON-EG-35 ANON-EG-36 ANON-EG-38 ANON-EG-39 ANON-EG-40 ANON-EG-41 ANON-EG-43 ANON-EG-45 ANON-EG-48 ANON-EG-85 ANON-EG-86 ANON-EG-92 ANON-EG-98 ANON-EG-100 ANON-EG-110 ANON-EG-49 ANON-EG-54	ANON-P8JT-DE3S-N ANON-P8JT-DEPV-N ANON-P8JT-DEPN-D ANON-P8JT-DEPP-F ANON-P8JT-DEPZ-S ANON-P8JT-DEPQ-G ANON-P8JT-DEZW-Z ANON-P8JT-DEZV-Y ANON-P8JT-DEZX-1 ANON-P8JT-DEZF-F ANON-P8JT-DEZ5-X ANON-P8JT-DEZQ-T ANON-P8JT-DE9N-P ANON-P8JT-DE9P-R ANON-P8JT-DE9Z-2 ANON-P8JT-DEHC-T ANON-P8JT-DEPG-6 ANON-P8JT-DEHA-R ANON-P8JT-DEHP-7 ANON-P8JT-DEHJ-1 ANON-P8JT-DE4Y-V ANON-P8JT-DE4X-U ANON-P8JT-DE4F-9 ANON-P8JT-DE4K-E ANON-P8JT-DEQW-Q ANON-P8JT-DEQX-R ANON-P8JT-DEQ2-J ANON-P8JT-DEQ6-P	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Demand for access to the coast is increasing • Industrialisation of Exmouth Gulf will result in a diminished perception of the World Heritage values, and attract less tourists • Changes to demographics of Exmouth residents (from tourism operators to industry operators) may result in a change to local stewardship and connection with natural values • Sedimentation caused by dredging activities and sea floor disturbance such as trawling can impact aesthetic values, and underwater seascapes • Pollution • Stewardship values are often in danger of being circumvented or ignored by local government and business interests • An increase in large vessels in Exmouth Gulf will impact aesthetic values • The threat of industrialisation of Exmouth Gulf causes anxiety and stress • Development within Exmouth Gulf will impact aesthetic values • Development within Exmouth Gulf will damage the global brand • Increased tourism due to COVID-19 has placed social pressures on the Exmouth community, including negative impacts to quality of life • Loss of unique remote values • Too many ships in Exmouth Gulf ruin the vista when you fly into Learmonth Airport • Environmental pressures decrease social cohesion

No.	Submitter(s)		Submission and/or issue
	ANON-EG-55 ANON-EG-60 ANON-EG-74 ANON-EG-118 ANON-EG-131 ANON-EG-132 ANON-EG-141 ANON-EG-142 ANON-EG-145	ANON-P8JT-DEQ8-R ANON-P8JT-DE3X-T ANON-P8JT-DE3J-C ANON-P8JT-DE31-K ANON-P8JT-DENB-Y ANON-P8JT-DENF-3 ANON-P8JT-DENC-Z ANON-P8JT-DENA-X	
Marine based recreation			
71	APPEA CCG CETREC WA DPIRD Minderoo Foundation NCWHAC Protect Ningaloo Rangelands NRM Recfishwest Subsea 7 ANON-EG-02 ANON-EG-03 ANON-EG-06 ANON-EG-08 ANON-EG-11 ANON-EG-12 ANON-EG-14 ANON-EG-15 ANON-EG-16 ANON-EG-17 ANON-EG-18 ANON-EG-19 ANON-EG-20 ANON-EG-21 ANON-EG-23 ANON-EG-24 ANON-EG-27	ANON-P8JT-DEP2-H ANON-P8JT-DEQR-J ANON-P8JT-DEPS-J ANON-P8JT-DEPY-R ANON-P8JT-DE3V-R ANON-P8JT-DE3S-N ANON-P8JT-DEP9-R ANON-P8JT-DEPU-M ANON-P8JT-DEPC-2 ANON-P8JT-DEPV-N ANON-P8JT-DEPW-P ANON-P8JT-DEPA-Z ANON-P8JT-DEPF-5 ANON-P8JT-DEPN-D ANON-P8JT-DEPP-F ANON-P8JT-DEP5-M ANON-P8JT-DEP7-P ANON-P8JT-DEPR-H ANON-P8JT-DEP6-N ANON-P8JT-DEZ3-V ANON-P8JT-DEZT-W ANON-P8JT-DEZW-Z ANON-P8JT-DEZV-Y ANON-P8JT-DEZE-E ANON-P8JT-DEZY-2 ANON-P8JT-DEZX-1 ANON-P8JT-DEZG-G	<u>Values:</u> <ul style="list-style-type: none"> • Exmouth Gulf is where the community engages in marine activities when it gets too windy on the west side of the Cape • Scuba diving • Snorkelling • Freediving • Whale watching • Swimming • Surfing • Boating • Recreational fishing, fly-fishing, squidding, prawning, crabbing and spearfishing • Sailing • Kayaking • Stand up paddle boarding • Skurfing • Kitesurfing • Megafauna interactions (swimming with whale sharks, manta rays, dugongs etc) • Charter fishing • GAMEX fishing competition • Exmouth Integrated Artificial Reef • Exmouth Game Fishing Club • Pelagic sport fishing • Bay of Rest • Gales Bay • Wapet Creek

No.	Submitter(s)	Submission and/or issue	
	ANON-EG-28 ANON-EG-29 ANON-EG-30 ANON-EG-31 ANON-EG-33 ANON-EG-35 ANON-EG-36 ANON-EG-37 ANON-EG-38 ANON-EG-39 ANON-EG-41 ANON-EG-42 ANON-EG-43 ANON-EG-44 ANON-EG-46 ANON-EG-47 ANON-EG-48 ANON-EG-50 ANON-EG-51 ANON-EG-52 ANON-EG-54 ANON-EG-55 ANON-EG-58 ANON-EG-59 ANON-EG-60 ANON-EG-61 ANON-EG-62 ANON-EG-63 ANON-EG-64 ANON-EG-66 ANON-EG-67 ANON-EG-69 ANON-EG-72 ANON-EG-73 ANON-EG-74 ANON-EG-77 ANON-EG-78 ANON-EG-80	ANON-P8JT-DEZP-S ANON-P8JT-DEZ2-U ANON-P8JT-DEZF-F ANON-P8JT-DEZ5-X ANON-P8JT-DEZQ-T ANON-P8JT-DEZ7-Z ANON-P8JT-DE9W-Y ANON-P8JT-DE9Y-1 ANON-P8JT-DE9G-F ANON-P8JT-DE9N-P ANON-P8JT-DE9S-U ANON-P8JT-DE9B-A ANON-P8JT-DE9P-R ANON-P8JT-DE9E-D ANON-P8JT-DE95-W ANON-P8JT-DE9Z-2 ANON-P8JT-DE9Q-S ANON-P8JT-DE97-Y ANON-P8JT-DE98-Z ANON-P8JT-DE9K-K ANON-P8JT-DE9H-G ANON-P8JT-DE96-X ANON-P8JT-DEH9-G ANON-P8JT-DEHC-T ANON-P8JT-DEPG-6 ANON-P8JT-DEHA-R ANON-P8JT-DEHG-X ANON-P8JT-DEHN-5 ANON-P8JT-DEHM-4 ANON-P8JT-DEHJ-1 ANON-P8JT-DEHD-U ANON-P8JT-DEHZ-H ANON-P8JT-DEH1-8 ANON-P8JT-DEHK-2 ANON-P8JT-DE44-Q ANON-P8JT-DE4T-Q ANON-P8JT-DE49-V ANON-P8JT-DE4U-R	<ul style="list-style-type: none"> • Heron Point • Qualing Pool • Point Murat Navy Pier • Exmouth Gulf Islands • Underwater photography • Citizen science, including volunteer work for visiting scientists and researchers • The Navy Pier is one of the top 10 diving spots in the world • Exmouth Yacht Club

No.	Submitter(s)		Submission and/or issue
	ANON-EG-81	ANON-P8JT-DEH8-F	
	ANON-EG-82	ANON-P8JT-DE4Y-V	
	ANON-EG-83	ANON-P8JT-DE4W-T	
	ANON-EG-84	ANON-P8JT-DE4X-U	
	ANON-EG-86	ANON-P8JT-DE4F-9	
	ANON-EG-87	ANON-P8JT-DE4G-A	
	ANON-EG-89	ANON-P8JT-DE4N-H	
	ANON-EG-90	ANON-P8JT-DE4P-K	
	ANON-EG-91	ANON-P8JT-DE4M-G	
	ANON-EG-92	ANON-P8JT-DE45-R	
	ANON-EG-93	ANON-P8JT-DE4Z-W	
	ANON-EG-94	ANON-P8JT-DE47-T	
	ANON-EG-95	ANON-P8JT-DE4K-E	
	ANON-EG-96	ANON-P8JT-DE92-T	
	ANON-EG-97	ANON-P8JT-DEQ3-K	
	ANON-EG-98	ANON-P8JT-DEQW-Q	
	ANON-EG-100	ANON-P8JT-DEQC-3	
	ANON-EG-126	ANON-P8JT-DEQE-5	
	ANON-EG-127	ANON-P8JT-DEQA-1	
	ANON-EG-128	ANON-P8JT-DEQX-R	
	ANON-EG-129	ANON-P8JT-DEQD-4	
	ANON-EG-130	ANON-P8JT-DEQP-G	
	ANON-EG-131	ANON-P8JT-DEQ5-N	
	ANON-EG-133	ANON-P8JT-DEQ7-Q	
	ANON-EG-136	ANON-P8JT-DEQQ-H	
	ANON-EG-137	ANON-P8JT-DEH5-C	
	ANON-EG-138	ANON-P8JT-DEQ6-P	
	ANON-EG-140	ANON-P8JT-DEQK-B	
	ANON-EG-141	ANON-P8JT-DE34-P	
	ANON-EG-121	ANON-P8JT-DEQ8-R	
	ANON-EG-122	ANON-P8JT-DE39-U	
	ANON-EG-123	ANON-P8JT-DE3T-P	
	ANON-EG-124	ANON-P8JT-DE3C-5	
	ANON-EG-125	ANON-P8JT-DE3Y-U	
	ANON-EG-142	ANON-P8JT-DE3A-3	
	ANON-EG-143	ANON-P8JT-DE3X-T	
	ANON-EG-144	ANON-P8JT-DE3N-G	
	ANON-EG-145	ANON-P8JT-DE3P-J	

No.	Submitter(s)	Submission and/or issue	Submission and/or issue
	ANON-EG-147 ANON-EG-151 ANON-EG-152 ANON-EG-101 ANON-EG-102 ANON-EG-103 ANON-EG-104 ANON-EG-106 ANON-EG-108 ANON-EG-109 ANON-EG-111 ANON-EG-112 ANON-EG-114 ANON-EG-115 ANON-EG-116 ANON-EG-118 ANON-EG-119 ANON-P8JT-DEQ4-M	ANON-P8JT-DEQJ-A ANON-P8JT-DE32-M ANON-P8JT-DE3M-F ANON-P8JT-DEQ9-S ANON-P8JT-DE3Q-K ANON-P8JT-DE3J-C ANON-P8JT-DE36-R ANON-P8JT-DE3R-M ANON-P8JT-DEN4-H ANON-P8JT-DE3H-A ANON-P8JT-DEQY-S ANON-P8JT-DE31-K ANON-P8JT-DENW-M ANON-P8JT-DEN9-P ANON-P8JT-DE37-S ANON-P8JT-DENF-3 ANON-P8JT-DENC-Z ANON-P8JT-DENA-X	
72	CGG CETREC WA DPIRD ECCI MG Kailis Group Protect Ningaloo Rangelands NRM Recfishwest ANON-EG-12 ANON-EG-15 ANON-EG-19 ANON-EG-35 ANON-EG-37 ANON-EG-50 ANON-EG-91 ANON-EG-92 ANON-EG-94 ANON-EG-100 ANON-EG-106	ANON-P8JT-DEQR-J ANON-P8JT-DEPA-Z ANON-P8JT-DEP7-P ANON-P8JT-DEZS-V ANON-P8JT-DEZ5-X ANON-P8JT-DE9Y-1 ANON-P8JT-DE9N-P ANON-P8JT-DE9S-U ANON-P8JT-DE9P-R ANON-P8JT-DE9E-D ANON-P8JT-DE9Q-S ANON-P8JT-DE98-Z ANON-P8JT-DE9K-K ANON-P8JT-DE9H-G ANON-P8JT-DEHC-T ANON-P8JT-DEPG-6 ANON-P8JT-DEHP-7 ANON-P8JT-DE44-Q ANON-P8JT-DEQE-5	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Recreational fishing has increased in popularity with larger numbers of tourists populating the areas during peak seasons • Tourists swimming in delicate marine areas, including island areas • Tourists touching/standing on coral • Marine vessel congestion has increased • Recreational boaters damaging reefs, striking marine fauna, speeding and polluting • Irresponsible recreational fishers leaving fishing line/equipment in the ocean, fishing undersized fish, incorrect bag limits and taking too many fish • Too many jet skis • Clearer guidelines and education are required for recreational whale watching • Development within Exmouth Gulf may impact safety of recreational fishers • Development within Exmouth Gulf may restrict access to areas for recreational fishing • Marine debris

No.	Submitter(s)		Submission and/or issue
	ANON-EG-130 ANON-EG-136 ANON-EG-143 ANON-EG-144 ANON-EG-147 ANON-P8JT-DEPS-J ANON-P8JT-DEPY-R ANON-P8JT-DEQ4-M ANON-P8JT-DEP2-H	ANON-P8JT-DEQA-1 ANON-P8JT-DEQX-R ANON-P8JT-DE34-P ANON-P8JT-DE3A-3 ANON-P8JT-DE3X-T ANON-P8JT-DE3Q-K ANON-P8JT-DENC-Z ANON-P8JT-DENA-X	
Land based recreation			
73	CCG CETREC WA Hon Robin Chapple MLC MG Kailis Group NCWHAC Protect Ningaloo Rangelands NRM ANON-EG-02 ANON-EG-03 ANON-EG-06 ANON-EG-11 ANON-EG-12 ANON-EG-15 ANON-EG-16 ANON-EG-17 ANON-EG-18 ANON-EG-19 ANON-EG-24 ANON-EG-26 ANON-EG-27 ANON-EG-28 ANON-EG-29 ANON-EG-30 ANON-EG-35 ANON-EG-37 ANON-EG-39	ANON-P8JT-DE3V-R ANON-P8JT-DEP9-R ANON-P8JT-DEPU-M ANON-P8JT-DEPC-2 ANON-P8JT-DEPW-P ANON-P8JT-DEPA-Z ANON-P8JT-DEPF-5 ANON-P8JT-DEPN-D ANON-P8JT-DEPP-F ANON-P8JT-DEPQ-G ANON-P8JT-DEP7-P ANON-P8JT-DEZ3-V ANON-P8JT-DEZW-Z ANON-P8JT-DEZV-Y ANON-P8JT-DEZY-2 ANON-P8JT-DEZX-1 ANON-P8JT-DEZG-G ANON-P8JT-DEZP-S ANON-P8JT-DEZ2-U ANON-P8JT-DEZ5-X ANON-P8JT-DEZQ-T ANON-P8JT-DE9W-Y ANON-P8JT-DE9Y-1 ANON-P8JT-DE9S-U ANON-P8JT-DE9B-A ANON-P8JT-DE9P-R ANON-P8JT-DE9E-D	Values: <ul style="list-style-type: none"> • Camping • Caravanning • Beach fishing • Trail biking/Mountain biking • Exmouth Gulf is used by the locals for a wide range of leisure activities, most of which are consciously empathetic to the needs and nature of the area • Recreational activities are part of the Exmouth lifestyle for tourists and locals • Off-road driving (e.g. four-wheel drive, motorbikes, dirt bikes, quadbikes) • Social gatherings • Walking/Hiking • Cycling • Dog walking • Beach leisure • Beach combing • Sports clubs • Fitness activities (e.g. yoga) • Wellbeing activities (e.g. meditation) • Wildlife watching (including bird watching) • Picnicking and BBQs • Wildlife photography/videography • Bay of Rest • Heron Point and Wapet Creek • Qualing Pool and Barbeque Beach • Mowbowra Creek

No.	Submitter(s)	Submission and/or issue
ANON-EG-43 ANON-EG-46 ANON-EG-47 ANON-EG-48 ANON-EG-49 ANON-EG-50 ANON-EG-52 ANON-EG-54 ANON-EG-55 ANON-EG-59 ANON-EG-60 ANON-EG-61 ANON-EG-63 ANON-EG-66 ANON-EG-69 ANON-EG-72 ANON-EG-73 ANON-EG-74 ANON-EG-78 ANON-EG-81 ANON-EG-83 ANON-EG-85 ANON-EG-93 ANON-EG-94 ANON-EG-95 ANON-EG-96 ANON-EG-97 ANON-EG-98 ANON-EG-99 ANON-EG-100 ANON-EG-86 ANON-EG-87 ANON-EG-91 ANON-EG-101 ANON-EG-102 ANON-EG-103 ANON-EG-104 ANON-EG-106	ANON-P8JT-DE95-W ANON-P8JT-DE9Z-2 ANON-P8JT-DE9Q-S ANON-P8JT-DE97-Y ANON-P8JT-DE98-Z ANON-P8JT-DE9K-K ANON-P8JT-DE9H-G ANON-P8JT-DEHC-T ANON-P8JT-DEPG-6 ANON-P8JT-DEHA-R ANON-P8JT-DEHX-F ANON-P8JT-DEHG-X ANON-P8JT-DEHM-4 ANON-P8JT-DEHD-U ANON-P8JT-DEHZ-H ANON-P8JT-DEH1-8 ANON-P8JT-DEHK-2 ANON-P8JT-DE44-Q ANON-P8JT-DE4T-Q ANON-P8JT-DE49-V ANON-P8JT-DE4U-R ANON-P8JT-DEH8-F ANON-P8JT-DE4Y-V ANON-P8JT-DE4X-U ANON-P8JT-DE4A-4 ANON-P8JT-DE4F-9 ANON-P8JT-DE4G-A ANON-P8JT-DE4N-H ANON-P8JT-DE4P-K ANON-P8JT-DE47-T ANON-P8JT-DE4K-E ANON-P8JT-DE92-T ANON-P8JT-DEQ3-K ANON-P8JT-DEQW-Q ANON-P8JT-DEQE-5 ANON-P8JT-DEQX-R ANON-P8JT-DEQD-4 ANON-P8JT-DEQP-G	<ul style="list-style-type: none"> • Exmouth Gulf Islands • Citizen science, including volunteer work for visiting scientists and researchers • Microlight flying • Stargazing • Sandboarding • Watching the sunset and sunrise • Exploring caves • Reptile spotting at night • Hunting activities • Golf Club

No.	Submitter(s)		Submission and/or issue
	ANON-EG-108 ANON-EG-111 ANON-EG-112 ANON-EG-114 ANON-EG-115 ANON-EG-116 ANON-EG-118 ANON-EG-119 ANON-EG-121 ANON-EG-125 ANON-EG-126 ANON-EG-127 ANON-EG-128 ANON-EG-129 ANON-EG-130 ANON-EG-132 ANON-EG-133 ANON-EG-137 ANON-EG-140 ANON-EG-141 ANON-EG-143 ANON-EG-144 ANON-EG-142 ANON-EG-145 ANON-P8JT-DEQ4-M ANON-P8JT-DEP2-H ANON-P8JT-DEPS-J ANON-P8JT-DEPY-R	ANON-P8JT-DEQ5-N ANON-P8JT-DEQ7-Q ANON-P8JT-DEQQ-H ANON-P8JT-DEQ6-P ANON-P8JT-DEQK-B ANON-P8JT-DE34-P ANON-P8JT-DEQ8-R ANON-P8JT-DE39-U ANON-P8JT-DE3C-5 ANON-P8JT-DE3Y-U ANON-P8JT-DE3A-3 ANON-P8JT-DE3X-T ANON-P8JT-DE3P-J ANON-P8JT-DE32-M ANON-P8JT-DE3M-F ANON-P8JT-DE3Q-K ANON-P8JT-DE3J-C ANON-P8JT-DE36-R ANON-P8JT-DEN4-H ANON-P8JT-DE3H-A ANON-P8JT-DENE-2 ANON-P8JT-DE31-K ANON-P8JT-DENW-M ANON-P8JT-DEN9-P ANON-P8JT-DE37-S ANON-P8JT-DENF-3 ANON-P8JT-DENA-X	
74	CCG Defence ECCI MG Kailis Group Protect Ningaloo Rangelands NRM ANON-EG-19 ANON-EG-31 ANON-EG-35	ANON-EG-146 ANON-P8JT-DEPY-R ANON-P8JT-DE3V-R ANON-P8JT-DEQ4-M ANON-P8JT-DEZ3-V ANON-P8JT-DEZ5-X ANON-P8JT-DE9S-U ANON-P8JT-DE9E-D ANON-P8JT-DE9Q-S	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Illegal beach camping on foreshore areas, including activities facilitated by pastoral lease holders • Pastoral lease holders controlling public access to foreshore areas and charging fees • Dumping of rubbish and debris on dunes/beaches • Human waste on beaches and dunes • Tourists walking over the dunes rather than on designated pathways • Development is likely to restrict public access to popular beach locations

No.	Submitter(s)	Submission and/or issue
	ANON-EG-43 ANON-EG-50 ANON-EG-72 ANON-EG-81 ANON-EG-82 ANON-EG-86 ANON-EG-91 ANON-EG-92 ANON-EG-100 ANON-EG-101 ANON-EG-106 ANON-EG-121 ANON-EG-125 ANON-EG-126 ANON-EG-128 ANON-EG-129 ANON-EG-130 ANON-EG-141 ANON-EG-144	ANON-P8JT-DE97-Y ANON-P8JT-DE98-Z ANON-P8JT-DEPG-6 ANON-P8JT-DEHA-R ANON-P8JT-DEHP-7 ANON-P8JT-DEHZ-H ANON-P8JT-DEHK-2 ANON-P8JT-DE49-V ANON-P8JT-DE4X-U ANON-P8JT-DE47-T ANON-P8JT-DE92-T ANON-P8JT-DEQA-1 ANON-P8JT-DEQ5-N ANON-P8JT-DEQK-B ANON-P8JT-DE34-P ANON-P8JT-DE3C-5 ANON-P8JT-DE3X-T ANON-P8JT-DEN9-P ANON-P8JT-DENA-X <ul style="list-style-type: none"> • The current lack of sufficient infrastructure leads to inappropriate parking, 'free campers', access paths to beaches and associated damage to vegetation and dune systems • Off-road driving (four-wheel drive, motorbikes, dirt bikes, quadbikes) damaging dunes and beaches • If the local population of Exmouth increases, it will lead to further recreational use of the Exmouth Gulf could exacerbate impacts • Illegal parking • Illegal bonfires on the beach • Dogs on the beach digging on dunes and chasing wildlife
Noise, dust, odour and light		
75	Defence Recfishwest ANON-EG-27 ANON-EG-61 ANON-P8JT-DEQD-4	<u>Values:</u> <ul style="list-style-type: none"> • The Exmouth Gulf region was selected as the site for the Space Surveillance Telescope due to its distance from populated areas and its low light • Defence relies on the electro-magnetically quiet environment of the Exmouth Gulf region for operation of the facility • Future development may cause light pollution which has the potential to impact performance of optical space surveillance sensors • Free from light and noise pollution • Fresh air • Quiet
76	CCG NCWHAC Protect Ningaloo Recfishwest ANON-EG-60 ANON-EG-61	<u>Potential and current pressures:</u> <ul style="list-style-type: none"> • Light pollution is increasing from various sources and locations, including the town of Exmouth, the industrial estate, northern-western oil fields (offshore), and the LNG plant Wheatstone • Suburban sprawl will lead to further light pollution • Lights and noise from recreational and commercial boats

No.	Submitter(s)	Submission and/or issue
	ANON-EG-72 ANON-EG-74 ANON-EG-78 ANON-EG-95 ANON-EG-98 ANON-EG-114 ANON-EG-126 ANON-EG-128	ANON-P8JT-DEH9-G ANON-P8JT-DEHZ-H ANON-P8JT-DE4T-Q ANON-P8JT-DE4X-U ANON-P8JT-DE4N-H ANON-P8JT-DENF-3 ANON-P8JT-DENC-Z
		<ul style="list-style-type: none"> • Large vessels cause noise and vibrations that are audible and felt onshore. • Development within Exmouth Gulf will cause continuous noise and light pollution • Construction noise • Traffic noise increasing • Light pollution will impact stargazing • Dust from cleared areas • Noise from airplanes and helicopters

Subterranean Fauna

No.	Submitter(s)	Submission and/or issue
77	CCG Defence NCWHAC Protect Ningaloo Rangelands NRM Transport ANON-EG-48 ANON-EG-74 ANON-EG-82 ANON-EG-121 ANON-P8JT-DEQJ-A ANON-P8JT-DE3Q-K	<p><u>Values</u></p> <ul style="list-style-type: none"> • Blind Gudgeon – Vulnerable (EPBC Act) • Blind Cave Eel – Vulnerable (EPBC Act) • The Ningaloo Coast Statement of Outstanding Universal Value (IUCN) notes that the area contains high diversity of cave fauna (troglomorphic) • Large scale subterranean karst cave systems have unique subterranean fauna • The Cape Range Subterranean Waterways is located to the east of the base around Wapet Creek and is a Nationally Important Wetland • Caves and dolines, including the Bundera Sinkhole • Mowbowra Creek contains several surface karst windows and caves for subterranean fauna • The coastal plain of Cape Range contains a network of subterranean waterways, comprising caverns and fissures in the limestone beneath the coastal plain. • The Bundera Sinkhole is the only deep anchialine system known in Australia and the only continental anchialine system known in the southern hemisphere. • The stygofauna at Cape Range, including species found at Bundera Sinkhole, give insights into the origin of the whole Australian fauna, changes in climate since the Miocene, and biogeographical history of the continent.
78	CCG NCWHAC Protect Ningaloo Transport ANON-EG-74 ANON-EG-121 ANON-P8JT-DEPY-R	<p><u>Potential and current pressures:</u></p> <ul style="list-style-type: none"> • Large scale dredging could impact subterranean cave systems • Increased visitation will increase demands for freshwater, leading to water abstraction with potential impacts on fragile subterranean aquatic habitat • Groundwater drawdown • Freshwater extraction • Hydrocarbon spills

No.	Submitter(s)	Submission and/or issue
	ANON-P8JT-DEQJ-A	

Terrestrial Fauna

No.	Submitter(s)	Submission and/or issue
79	CCG Defence Protect Ningaloo Rangelands NRM ANON-EG-27 ANON-EG-48 ANON-EG-69 ANON-EG-74 ANON-EG-116 ANON-EG-122 ANON-EG-145 ANON-P8JT-DEP7-P ANON-P8JT-DEQW-Q ANON-P8JT-DE47-T ANON-P8JT-DE92-T ANON-P8JT-DEPR-H ANON-P8JT-DEH9-G ANON-P8JT-DEQJ-A ANON-P8JT-DE3Q-K	<p><u>Values:</u></p> <ul style="list-style-type: none"> • Black-flanked Rock-wallaby – Vulnerable (EPBC Act, BC Act) • Greater bilby habitat • <i>Stygiochiropus sympatricus</i> millipede – Critically Endangered (BC Act) • The Cape Range Peninsula supports a rich diversity and endemism of invertebrate species, reptiles, and birds • Cape Range stone gecko • Emu • Kangaroo • Dingoes • Pilbara Inshore Islands Reserve area • Pastoralists in the Exmouth Gulf region protect the biodiversity of fauna on their leases • Wildlife carers for orphaned and injured animals use Exmouth Gulf dunes to rehabilitate animals • Birds of prey

No.	Submitter(s)	Submission and/or issue
80	CCG NCWHAC Protect Ningaloo Rangelands NRM ANON-EG-98 ANON-EG-112 ANON-P8JT-DEP7-P ANON-P8JT-DEZX-1 ANON-P8JT-DEHC-T ANON-P8JT-DEHP-7 ANON-P8JT-DENF-3 ANON-P8JT-DEH9-G	<p><u>Potential and current pressures:</u></p> <ul style="list-style-type: none"> • Pest and predation from invasive species (foxes, cats, rabbits and goats) • Clearing and fragmentation of fauna habitat • Wild sheep • Feral control activities are used for foxes, feral cats and wild dogs • Feral goats compete with native animals for food, water and shelter • Feral goats contribute to erosion, overgrazing and spread of weeds • When the road to Yardie Creek was sealed there was an increase in vehicle strikes • An increase in dingoes • Reptile deaths from vehicle strikes have led to a decline in reptile populations • Heat waves lead to bird deaths including owls, kites and falcons • Poor waste management has led to an influx of seagulls

Other

No.	Submitter(s)	Submission and/or issue
81	CCG Defence ECCI ANON-EG-86 ANON-EG-98 ANON-EG-121 ANON-P8JT-DE39-U ANON-P8JT-DEHR-9 ANON-P8JT-DE3V-R ANON-P8JT-DE3X-T ANON-P8JT-DEQJ-A ANON-P8JT-DEHC-T ANON-P8JT-DE9E-D ANON-P8JT-DE3Q-K ANON-P8JT-DENC-Z	<p><u>Potential and current pressures:</u></p> <ul style="list-style-type: none"> • An integrated electricity grid does not reach the Exmouth Gulf. Energy is supplied through diesel generators, where liquid fuel is shipped in through the Exmouth Gulf, and via a natural gas supply which is trucked into the region • Waste and recycling services within the Exmouth Gulf are limited, with corresponding pressure placed on landfill sites • Increased tourism places pressure on power supply and connectivity which is already in limited supply • Exmouth locals have limited access to critical health and education services • Industrialisation of Exmouth Gulf will lead to more expensive house and land • Waste disposal via Qualing Scarp Landfill Site is inappropriately managed
82	Hon Robin Chapple MLC Protect Ningaloo ANON-EG-29 ANON-EG-74 ANON-EG-98	<p><u>Criticisms of the section 16(e) process:</u></p> <ul style="list-style-type: none"> • The scope of the EPA's strategic advice for the Exmouth Gulf is piecemeal and it should be assessed within the context of environmental damage at a state-level

No.	Submitter(s)	Submission and/or issue
	ANON-P8JT-DEHP-7 ANON-P8JT-DEHC-T ANON-P8JT-DEQW-Q	<ul style="list-style-type: none"> • The EPA's strategic assessment of the Exmouth Gulf is greenwash, and previous government initiatives in the Pilbara, Kimberley and Port Hedland should serve as a warning • There is concern that the scope of the assessment is narrow and will be unable to provide for new research to be undertaken to fill critical knowledge gaps. • The EPA's consultation period is too short and not well publicised. • The EPA needs to make better decisions based on science not dollars and politics. • The WA Government needs to think about more than 'jobs and growth' and protect the Exmouth Gulf. • The WA Government needs a coordinated vision for Exmouth.
83	Protect Ningaloo ANON-EG-74	The EPA should carry out a comprehensive and robust section 16(e) assessment.
84	ANON-EG-13 ANON-EG-40	The EPA needs to have a greater role in management of Exmouth Gulf.