

11 Appendices

11.1 Appendix 1. Summary of responses to comments received during public consultation

Note responses relevant to comments from Department of Environment and Heritage have been included in the document but have not been identified in this appendix at the request of the Department of Environment and Heritage.

Responding Agency or Organisation	Issue	Summary of response	Section of response
Dept Aboriginal and Torres Strait Islander Policy	Whole response	A detailed discussion has been provided	7.15 Cultural Heritage
Dept Main Roads	No issues to be addressed		No response required
Dept Natural Resources (DNR)	1 Saline vs freshwater and clay	Effect of saline water on clay dispersion discussed.	6.8.1 Clay lining of ponded areas
			6.8.2 Dispersion of clays
DNR	2. Weed and pest management plan for total site	A plan has been included	8.2 Weed and pest management plan
DNR	3. Management of PASS	Response by Ralph earlier to construction management	6.9 Acid Sulphate Soils
		Additional data regarding groundwater has been acquired and included.	8.1 Acid Sulphate management plan
DNR	4 Groundwater		5.2 Groundwater
			7.17 Groundwater
Dept Primary Industries (DPI)	Aquaculture product escape - flood levels (relative to bund walls)	A description has been provided.	6.10.1 Stormwater flooding and Bund Heights
DPI	Source of culture stock	Discussion provided	6.11.3 Source of seedstock

Responding Agency or Organisation	Issue	Summary of response	Section of response
DPI	Disease Management	No response required but additional information provided.	6.11.4 Disease Control
DPI	Removal, destruction or damage of marine plants as defined under the Fisheries Act 1994	Discussion of design of intake and discharge pipes	7.8.1 Trench Excavation 7.18 Mitigation
	Marine Plant Permit required.	Discussion of processes included.	3.10 Process for completion of the approval 3.11 List of Acts applying
	Mitigation for settlement below HAT	Mitigation proposed.	7.18 Mitigation
	Width of disturbance in the marine section of the pipeline	Discussion and detailed description given	7.8 Ocean Intake and Discharge Pipelines Construction (Beach and Marine Sections)
	Water quality relative to background levels and impact on seagrass	Detailed discussion of background levels based on long-term studies of local water quality, impact area and effects on seagrass.	7.2.1 Water quality objectives 7.5 Seagrasses
	Long-term monitoring program for seagrass	Statement by DPI that it is no longer an issue.	11.7 Appendix 7. Response from Qld Department of Primary Industries Regarding enquiries in respect to impacts of the project on seagrass
DPI	Buffers –reducing the impacts of the development on adjacent tidal lands	Erosion control described.	6.8.3 Erosion control

Responding Agency or Organisation	Issue	Summary of response	Section of response
DPI	Construction of a temporary road across saltpan.	Road reduced to temporary path constructed of wood or geofabric..	7.11 Salt pan
DPI	Trapping of wild fisheries resources in the water storage ponds	The proposal is contrary to usual conditions on Aquaculture Permits and Environmental Authorities. A discussion is provided.	6.11.9 Trapping of wild fisheries resources
Dept of Emergency Service (DES)s	Update the reference to legislation in preparation of the Emergency Procedures	Requirement to refer to the Disaster Management Act (DMA) 2003 noted.	3.11.1 Queensland Legislation
DES	Updated storm surge data	Storm surge analysis updated	6.10.2 Storm Surge
Dept of Employment & Training	Commitment to indigenous employment	Indigenous employment arrangements discussed	7.15.3 Employment
Environmental Protection Authority (EPA)	1.1 Incorporate Water Quality Objectives	Water Quality Objectives included	7.3 Discharge Water Quality Objectives - current 7.4 Water Quality Objectives – Future
EPA	1.2 Revised presentation of WQ data	Water quality data revised. Only Ocean data is now presented as Elliott River is no longer considered either a supply or discharge site.	5.1 Water quality
EPA	1.3 Analysis and discussion of water quality includes effect of rainfall	Discussion included	5.1.1 Climate and subsequent sections
EPA	1.4 Regional discussion of nutrient and sediment loads	Discussion included	7.4 Water Quality Objectives – Future
EPA	2.1 Effluent management	Discussion of alternatives and processes incorporated into this project inserted.	6.6 Settlement ponds and discharge water quality 6.6.2 Alternative Treatment Options
EPA	2.2 Plastic liners instead of rip-rapping	Advise that this is considered inappropriate. Riprap is effective as erosion control	6.8.3 Erosion control

Responding Agency or Organisation	Issue	Summary of response	Section of response
EPA	2.3 Design criteria for treatment ponds	Example of incorporation of new technology (sandfilter) provided.	6.6 Settlement ponds and discharge water quality 6.6.1.3 Sand Filter 6.6.2.3 Future Development
EPA	2.4 Clarify water quality inputs to the model	Issues relevant to the water quality models presented.	7.3.7 Modelling of water quality impacts – Predicted outcomes of the proposed discharge
EPA	2.5 Clarify Settlement pond concept and reasons	Description provided	6.6 Settlement ponds and discharge water quality
EPA	2.6 Description of Aquatic Blue	Description of the use and impact of Aquatic Blue provided.	6.11.5 Bloom Management
EPA	2.7 Use of sediment from ponds	Clarification provided.	6.11.7 Pond Sediment Wastes
EPA	2.8 Water quality limits	Water quality objectives have been included	7.3 Discharge Water Quality Objectives - current
EPA	2.9 Calculation of daily loads	Calculations have been included	11.3 Appendix 3. Calculation of daily loads in discharge waters
EPA	2.10 Calculation of TSS	Explanation of numbers and statement of mean load objectives	7.3.3 Objectives for total load
EPA	2.11 Appendix to Appendix E missing	Appendix to Appendix E included	11.4 Appendix 4. Appendix to Appendix E, GAPDE, 2003.

Responding Agency or Organisation	Issue	Summary of response	Section of response
EPA	3.1 – 3.4 Seagrass issues	A response to these issues has been included.	7.5 Seagrasses 11.7 Appendix 7. Response from Old Department of Primary Industries Regarding enquiries in respect to impacts of the project on seagrass
EPA	4.1 Processing and potable water	Consider waste water process in EIS, write statement to the effect of using for irrigation of gardens	6.13 Wastewater treatment
EPA	5.1 Modelling doesn't include Elliott River	Explanation of the reasons for not including Elliott River Flows in modelling provided	7.4.1 Comparison of Don River and Elliot River Catchments
EPA	Section 6 Water quality modelling. Interface of WQ and Seagrass	Discussion provided	7.2 Water quality 7.5 Seagrasses
EPA	7.1 Pipeline and access track construction	Amount of soil to be dredged provided	7.8.1 Trench Excavation
EPA	7.2 Discussion of beach protection with pump station	Changed proposal to include off-shore pumping station	6.1 Revised Seawater Intake and Discharge Arrangements
EPA	7.3 Figures for Hopley report (Appendix K)	Figures included in Appendix 4	11.5 Appendix 5. Figures omitted from Appendix K, GAPDE, 2003.
EPA	7.4 Dune erosion control	Further discussion included.	7.9 Dune system
EPA	7.5 Pipeline below mean high water springs and therefore in marine park	Confirmation of requirement for marine park permit included.	7.13 Marine Parks

Responding Agency or Organisation	Issue	Summary of response	Section of response
EPA	7.6 Determination of wetland hydrology	Discussion of hydrology included	7.10.3 Wetland hydrology
EPA	7.7 Backfill to be used in pipeline	Backfill material described	7.8.1 Trench Excavation 7.9.2.1 Construction 7.10.4 Backfill of pipe trench 7.11 Salt pan
EPA	7.8 Management of movement in pipeline construction	Movement of heavy vehicles substantially reduced by change in intake design	6.1 Revised Seawater Intake and Discharge Arrangements
EPA	7.9 Management of sand movement over discharge and intake pipeline	Issue noted. Design allows for siltation.	6.1 Revised Seawater Intake and Discharge Arrangements
EPA	8.1 Pump station soil	Issue no longer relevant due to changed design	6.1 Revised Seawater Intake and Discharge Arrangements
EPA	9.1 Problem species management	Developed a property management plan for managing impacts of wildlife	6.11.6 Problem Species Management 11.6 Appendix 6. Property Management Plan for Managing Wildlife Impacts

Responding Agency or Organisation	Issue	Summary of response	Section of response
EPA	10.1 Coastal Management Plans 2.2.2 Erosion prone areas 2.8.1 Areas of State Significance 2.8.2 Coastal wetlands	Detail of compliance with plans and policies	6.4 Construction Approach 3.9 Relationship with State Coastal Management Plan – Queensland’ Coastal Policy 7.10.5 Compliance with Coastal Management Plan – Queensland’s Coastal Policy
EPA	11.1 Species of conservation significance	Species tables updated	7.6.1 Errata to tables 7.7.1 Errata to Tables
EPA	12.1-2 Flooding and storm surge	Discussion included	6.10 Stormwater management and storm surge
EPA	13.1 Acid Sulphate Soils Management	Detail and updated EMP provided	6.9 Acid Sulphate Soils 8.1 Acid Sulphate management plan
EPA	13.2 Ripping of pond bottoms	Description updated and further information provided	6.11.8 Pond bottom drying
EPA	13.3-4 Impermeability of pond liner	Description of clay availability and potential use included	6.8.1 Clay lining of ponded areas
EPA	14.1-3 Wastewater management	Specific descriptions included	6.13.2 Domestic wastewater
EPA	15. Additional comments o Identification of wetlands	o Wetlands explicitly identified	o 7.10.1 Wetlands present or affected by the project

Responding Agency or Organisation	Issue	Summary of response	Section of response
Great Barrier Reef Marine Park Authority (GBRMPA)	<ul style="list-style-type: none"> ○ Presence of ecologically sensitive areas on Main Site ○ South Cape Upstart Wetland in an area of regional significance ○ Dune Ridge Vegetation in an area of regional significance ○ Applicable Acts 	<ul style="list-style-type: none"> ○ Ecologically sensitive areas on Main Site acknowledged ○ Area of regional significance acknowledged and discussed ○ Area of regional significance acknowledged and discussed ○ Applicable Acts listed 	<ul style="list-style-type: none"> ○ 7.12.1 NHT study: Priorities for remnant vegetation protection – Dryland Component ○ 7.10.2 NHT study: Priorities for remnant vegetation protection – Wetland Component ○ 7.9.1 NHT study: Priorities for remnant vegetation protection – Dryland Component ○ 3.11.1 Queensland Legislation
	Dot points 1-3. Process for approval.	Process clarified. All permits will be applied for upon completion of the EIS process	3.10 Process for completion of the approval
	Dot point 4. Request a single map	Single map provided	3.3 Description of project, Map and photograph of project
	Dot point 5. Request for the provision of water quality data	Water Quality data available as electronic version available on request.	Respond to request
	Dot points 6,7 and 8. Colocation of intake and discharge	Intake and discharge pipes now co-located	6.2 Location of Pipelines and Diffuser
GBRMPA	Dot point 9 Justification of statement	Justification provided	3.7 Evaluation of positive and negative impacts
Supplementary Document	Guthalunga Aquaculture Project Environmental Impact Statement		

Responding Agency or Organisation	Issue	Summary of response	Section of response
GBRMPA	Dot point 10 and 11 Settlement system	An analysis of a revised settlement processing system is provided Data on economics of Hartley's filtration system provided	6.6 Settlement ponds and discharge water quality 11.4 Appendix 4. Appendix to Appendix E, GAPDE, 2003.
GBRMPA	Dot point 12 Lower protein feeds	Discussion of lower protein feeds provided	6.11.1 Feed management
GBRMPA	Dot point 13 Comparison of dredging vs drilling	Comparison provided	7.8 Ocean Intake and Discharge Pipelines Construction (Beach and Marine Sections)
GBRMPA	Dot point 14 Process for rolling in the settlement basin into discharge	Discussion provided	6.7 Roll-in of current hatchery structures to new developments
GBRMPA	Dot point 15 EMP for pipeline exposure and recovery	EMPs provided	
GBRMPA	Dot point 16 incorporation of Policy into EIS structure	Comparison of proposal and Marine Prawn Farming Policy provided	7.3.4 Comparison with industry standards
GBRMPA	Attachment A Exec Summ Section 2.2 Business Objectives	Glossary provided	9 Glossary
GBRMPA	Section 4 Project Background	Discussion provided	3.7 Evaluation of positive and negative impacts
GBRMPA	Section 5.0 Industry and regional development A3 Water quality issue	Proposal exceeds water quality guidelines	7.3.4 Comparison with industry standards
GBRMPA	Section 8.0 Description of the Project	Information on water treatment provided	6.6 Settlement ponds and discharge water quality
GBRMPA	Section 9.0 Description of the Existing Environment	Glossary provided	9 Glossary

Responding Agency or Organisation	Issue	Summary of response	Section of response
GBRMPA	Section 9.4 Marine Environment A6 Seagrass and corals	Impact on light and seagrass provided	7.5 Seagrasses
GBRMPA	Section 11.1 Construction Impacts and Mitigation A7 Proposed management Main Document	Management to be conducted by EMPs as described in GAPDE, 2003.	
GBRMPA	Section 5.2 Alternative location for the entire Project	Discussion of alternates including the possibility of Map and photograph of coastal sites provided in GAPDE, 2003	3.3 Description of project, Map and photograph of project 7.5 Seagrasses 7.9.1 NHT study: Priorities for remnant vegetation protection – Dryland Component 7.10.2 NHT study: Priorities for remnant vegetation protection – Wetland Component 7.12.1 NHT study: Priorities for remnant vegetation protection – Dryland Component
GBRMPA	Section 9.1.1 Flora and Fauna	Discussion of key habitats presented	
GBRMPA	Pipelines in general	A 1:50,000 aerial photograph with overlays has been included	3.3 Description of project, Map and photograph of project
GBRMPA	Table 7.16	<i>Caretta caretta</i> added to list	7.6.1 Errata to tables
GBRMPA	Section 7.1.2 Impacts on saltpan area	Discussion of intake and discharge pipes construction provided	6.1 Revised Seawater Intake and Discharge Arrangements
GBRMPA	Ken Hartley Report	Hartley proposals superseded by sand filter technology	6.6.1 Pond Release Water Treatment System proposed for Guthalungra.

Responding Agency or Organisation	Issue	Summary of response	Section of response
GBRMPA	Section 9.1.1 Surface and Stormwater	Explanation provided	6.10.3 Stormwater management for capture and re-use
GBRMPA	Feed	Discussion provided	6.11.1 Feed management
GBRMPA	Hatchery	Discussion of roll-in of hatchery to project	6.7 Roll-in of current hatchery structures to new developments
Dept of Housing	Points in cover letter	Discussion of points raised in provided	7.16.1 Housing
Dept of Housing	1.4.4.4 Referral Agencies	List of referral agencies amended	3.12 Additional Referral Agencies
Dept of Housing	7.10.1.3 Demographic impacts 7.10.7.2 Staff availability	Discussion of demographics and staff source provided	7.16.1.1 Source of staff 7.16.1.3 Effects on the private housing market
Dept of Housing	6.7.1.6 Accommodation and Housing 6.7.1.9 Leisure and Recreation	Discussion of housing markets provided	7.16.1.3 Effects on the private housing market 7.16.1.4 Casual rental market
Dept of Housing	7.10.8 Training Needs and Skills Development 7.10.9 Accommodation Requirements	Discussion of construction housing provided	7.16.1.2 Construction
Dept of Local Government and Planning (DLGP)	Draft WHAM Regional Plan	Further information is provided	3.8.1 Whitsunday, Hinterland and Mackay Regional Plan
DLGP	Strategic Plan	Provide response	3.8.2 Bowen Shire Strategic Planning Processes
DLGP	Legislation 2.2	Description of process provided	3.10 Process for completion of the approval

Responding Agency or Organisation	Issue	Summary of response	Section of response
DLGP	Development Application	Description of process provided	3.10 Process for completion of the approval
DLGP	Procedural matters	Description of process provided	3.10 Process for completion of the approval
DLGP	Editorial	Description of process provided	3.10 Process for completion of the approval
Qld Health	1.5.2 Queensland Policies and Legislation	Legislation listed	3.11 List of Acts applying
Qld Health	4.1.4 Processing and Potable Water	Operational discussion provided	6.12 Potable water supply
Qld Health	9.2.2. Environmental Issues and Mitigation Measures	A mosquito management plan has been developed and included	8.3 Mosquito management plan