Appendix A

EIS Submission Analysis Register





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		D	raft EIS Submission Register - Lower Fitzroy River Infrastructure Pro	pject (July - August 2015) FOR AEIS REPORT REV 0		ponent to complete ponent response Relevant draft EIS chapter and section Relevant AEIS report chapter and section ed n/a n/a ed n/a ed n/a ed n/a ed n/a ed n/a ed n/a			
Sub and Issue No.	Submitter	Issue - Category	Issue - Details	Submitter Recommendations / Suggested Mitigation	Direction to Proponent	Proponent response	Relevant draft EIS chapter and section	Relevant AEIS report chapter and section	
001	Department of State Development (Business Solutions & Partnerships)	N/A	The Business Solutions and Partnerships section of DSD is supportive of the draft EIS and does not have any comments.	NA	Proponent to note	Noted	n/a	n/a	
002	QLD Treasury (Hazardous Industries & Chemicals Branch)	N/A	The Hazardous Industries and Chemicals branch (Office of Industrial Relations) has reviewed the draft EIS and advises that the branch has no requirements with regard to the project.	NA	Proponent to note	Noted	n/a	n/a	
003	Department of State Development (Major Projects)	N/A	The Major Projects Office of DSD has no comment to make on the draft EIS.	NA	Proponent to note	Noted	n/a	n/a	
004.01	Department of Health (QLD Ambulance Service)	Hazard & Risk	Reference is made to; Volume 1, Chapter 20, p20-17 (Table 20-6), Item 14 - Tropical Cyclone or Severe Storm.	In 'Responsive measures' column please include Queensland Ambulance Service in the response procedure.	Proponent to amend	Addressed in the draft EIS.	Volume 1 Chapter 23 Environmental management plan Section 23.2.8	n/a	
005	Department of Housing and Public Works (Government Employee Housing)	N/A	The Government Employee Housing has no comment on this project	NA	Proponent to note	Noted	n/a	n/a	
006.01	Private submitter 1	Flow regime methodology	Comments on altered flow regime assessment; Worldwide, one of the first aspects examined in dam projects are the impacts of flow regime change. Assessing of Anneys to hydrologic flow regimes is a complicated business, with no fool proof method available. Some methods of assessment are accepted by the solentific community as more adept than others. One very simple method, but of limited value ecologically, is to compare hydrographs on a daily weekly and monthly flow basis.	To compare ecologically significant changes between hydrographs, a number of widely used methods have been developed. These use a wide range of hydrograph statistics that are likely to have an impact on the flora and fauna of waterways. Such as 1 to 90 day minimum flows, 1 to 90 days maximum flows, number of zaro flow days, duration of davterne pulses, timing of minimum and maximum flows and the composition in the holicators of Hydrologic Alteration (IHA) method developed by Richter et al. (1996) and the Dundee Hydrological Regime Assessment Method (D-HRAM) developed by Black et al. (2005). Additionally changes in pattern of flows, such as predictability and constancy, cannot easily be quantified by the use of normal statistical metrics. It is common in hydrological studies to use Colvell's indices of variation to quantify the predictability and variability of flows (Olden and putf 2003, Resh et al. 1988).	Proponent to provide response	The draft EIS addresses stream flow pre- and post-project for all development stages and at various locations on the Fitzoy River within the project area. Further detail on methodology and results is presented in the draft EIS. Flow regime impacts on conservation significant fauna are addressed in the draft EIS. Flow regime macks on the Fitzory River turtle (<i>Rhecotyles</i> <i>keukops</i>) and the white-throated snapping turtle (<i>Essya</i> <i>albagula</i>) are addressed further in the additional information to the draft EIS.	Volume 1, Chapter 9 Surface water resources, Section 9.3.2.3 Appendix P Surface water resources supporting material Volume 1, Chapter 7 Aquatic ecology, Section 7.3.7, Section 7.3.12	Chapter 5 Fitzroy River Lurtle and white-throated snapping Lurtle, Section 5.3 Chapter 7 Surface water resources, Section 7.2.2, Section 7.4 Appendix F. Fitzery River and white-throated snapping turtle species management program Appendix F. Revised draft environmental management plan	
		Flow regime methodology	The EIS has compared hydrographs on a monthly flow basis using an analysis of similarity and multidimensional scaling to examine if the monthly flows are significantly different. Due to the significant natural variation in streams flows, such methods have little ability to find any statistical difference between a series of hydrographs even with a various data transformations. It is also unable to find differences of ecological significance.						
006.02		Flow regime methodology & environmental flow objectives	The EIS has examined some basic environmental flow variables in the form of the Water Resource Plan (WRP) environmental flow objectives. These environmental flow variables have not been examined for base case versus the difference project cases to identify changes, but only as a pass or fail comparison apairs the minimum environmental flow objective ratings listed in the WRP. Given that the VMP WASOs allow a 1 in 17 year drinking water supply failure for a regional city (annual water sharing index of 94%), it is most likely that the WRP EPO objective limits are also set at an extremely low or even lower threshold. Also for any accurate assessment of hydrologic flow changes, the actual current case (modelled flow as physically present, i.e. not including the non- existent Connors river and Nathan Dams) needs to be compared with the proposed project cases.	The project will likely be of great benefit to the region, but the ecological impacts need to be appropriately examined to be able to make this decision correctly. The actual level of assessment o flow regime change undertaken in the EIS is similar to that for a small impact assessable farm dam or pondage, not a half a billion dollar tens of thousands of megalitres dam project. If the environmental impacts are not assessed properly, the project has greater risk of successful court challenges that could half the project and cause significant cost escalations. As such it would be prudent for the proponents to examine all aspects in appropriate detail. Overall it would appear that the current initial assessment of flow regime changes arriving from the proposed project does not adequately address the cooligical implications. It is likely further work would, and should, examine the hydrologic regime changes in more detail using appropriate methods.	f Proponent to provide response	As per response to submission 006.01	n/a	n/a	

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007.01	Department of Agriculture and Fisheries (DAF) (Fisheries QLD)	Fish passage	(\$2.3.1.4, table 2-2, pg2-25 and s2.3.1.5, pgs2-29 to 2-30) General information on the provision of fish passage	The dEIS provides adequate details for the two proposed fish locks for this stage of the proposal. The applicant should however be made aware, that when works enter the Operational Works (OW) stage, hey must provide if thir construction' design plans in their Development Application (under SPA) for both proposed Fish Lock designs and for the upgrade of the existing Eden Bann Fish Lock. The OW application must include the mechanical operation components, control aspects, full engineered designs along with the continuation from a fishway professional' that these designs will function as proposed. A <i>Vishway professional is someone who is suitably qualified and experienced in fish passage</i> <i>biology with adequate experience in design, construction and monitoring of fishways simular to</i> <i>that being proposed. This person will need to verify that any fish way design will provide adequate</i> <i>fish passage</i> . For more information on the requirements at the OW stage, please see the State Development Assessment Provisions, Module 5, section 5.2 along with IDAS forms 1 and 27.	Proponent to note	Noted	nia	n/a	
007.02		River crossing upgrades	(s2.3.3.2, pgs2-31 to 2-32) General information on details regarding the four river crossing upgrades	Fisheries Queensland is satisfied that the proponent intends to use bridges for the upgrades of three of these four crossings. The applicant should be made aware of the DAF Fact Sheet: "What is not a waterway barrier work". This fact sheet provides works that do not require a trigger (under SPA) for waterway barrier works (in the OW stage). The fourth crossing (Hanrahan crossing) however, may be constructed as per the Self-Assessable Code WWBW(), part 3 – Culvert crossings. If any of the crossing works cannot meet the requirements of the Fact sheet exemptions or the Self- Assessable Code them a DA will be required for their construction at the OW stage of development" "See: SDAP Module 5, section 5. <i>Dpus IDAS forms 1 and 27 for the mandatory supporting information required for waterway barrier works development applications</i> .	Proponent to note	Noted	n/a	n/a	
007.03		Fish salvage and handling	(s2.4.4.1, pgs2.48 to 2-50) Insufficient detail on the salvage of fish at dewatering of sites in construction zones	The proponent should make mention of the safe handling of any fish species found whilst dewatering the areas of the Eden Bann and Rookwood weirs. The proponent should reference DAF's Fish Slavage Cuidelines for the safe handling and movement of all native fish in the construction zone.	Proponent to provide response	Addressed in the additional information to the draft EIS within the revised draft environmental management plan (EMP). DAF's Fish Salvage Guidelines will be referenced and implemented as necessary and applicable.	n/a	Chapter 12 Environmental management plan Appendix F Revised draft environmental management plan	
007.04		Fishway maintenance	s2.5.6, pg2-64) Insufficient detail regarding Fishway maintenance and repair programs	Presse provide details of the program to monitor, maintain and repair detects to the fishways to ensure fish passage remains adourate and that there is sufficient funds available by the proponent, to maintain the effective operation of the fishways until such time that the weirs are decommissioned. While the EIS has specified the construction of fish locks for the provision of fish passage over Eder Bann and Rockwood Weirs, there is insufficient detail on the operation, monitoring and repair of these structures after they are built. The following specific and detailed plans/reports should be provided regarding the proposed fish locks: 1. Detailed and specific fishway contingency plan for the Eden Bann and Rockwood Weirs including operating procedures, methodology and monitoring proposed; 2. Detailed and specific fishway contingency plan for the Eden Bann and Rockwood Weir including details of contingency plans to deal with breakdowns, changes to infrastructure operation or other issues that may affect the provision of fish passage. This must also include plans to withstand natural disasters and to the continued operation of Shways before, during and after natural disaster events 3. Financial assurances for mitigating operational, logistical and biological issues identified during monitoring and operation.		Fish lock operation is described in the draft EIS. The development of a fishway operations plan has been included with additional information to the draft EIS in the revised draft EMP and Project commitments.	Volume 1, Chapter 2 Project description, Section 2.5.6 Volume 3, Chapter 8 Terrestrial fauna, Section 8.1	12 Environmental management plan 13 Project commitments Appendix D Revised Project commitments Appendix F Revised draft environmental management plan	

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007.05		Offsets	s3.10, pg3-7 and s22.2.1, pg22-1) Update information to reflect the latest Environmental Offset Policy document	Amend: Queensiand Environmental Offsets Policy Version 1.0 to: Version 1.1 (Dec 2014)	Proponent to amend	Correct reference included in the additional information to the draft EIS.	n'a	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.1.1
007.06	(DAF) Agriculture Reef and BMP Programs	Water quality	(\$11.2.6, pgs11-41 to 11-45) Reef water quality targets – sediment, nutrient loads, pesticide and herbicides.	The Proponent should note that although agriculture does contribute to water quality, and the subsequent impact on the reef, it is important to remember it is only one of several industries that impact on the water of the Fitzroy catchment. This should not take away from all industries having a responsibility to improve water quality outputs in the Fitzroy catchments.	Proponent to note	Noted	n/a	n'a
007.07	Fisheries QLD	Offsets	(s22.1.2.2, last para, pg22-2) Financial offsets are not paid to the authorising agency – they are paid to ${\sf EHP}$	Amend first sentence to read: "payment from the authority holder to the Department of Environment and Heritage Protection Offset Fund".	Proponent to amend	Correct reference included in the additional information to the draft EIS.	n/a	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.1.1
007.08		Offsets	s22.2.3.5, pg22-9) Failure to include an offset for the significant residual impacts upon fisheries habitat the Fitzroy river system by inundation of the river at both weir sites	Although the dEIS seeks to offset the aquatic habitat loss, it does so via terrestrial calculation for the impacts to the Fitzroy River turtle, and not for the impacts by permanent alteration on fisheries habitat. The state currently has two Significant Residual Impacts (SRI) Guidelines, one that applies to works under the <i>Environmental Protection Act</i> 1994, <i>Nature Conservation Act</i> 1992 and <i>Manine Parks Act</i> 2004 which states that an SRI is likely to occur when works : - 1. substantially modify, destroy or fragment areas of fish habitat (including, but not limited to in- stream vegetation, angas and woody debris, substrate, bank or riffle formations) necessary for the reading and/or survival of fish, or 2. result in a substantial and measurable change in the hydrological regime of the waterway, for assumple, assubstantial adhange to two lume, depth, timing, duration and frequency of flows; or 3. lead to significant changes in water quality parameters such as temperature, dissolved oxygen, pH and conductivity that provide cues for movement in local fish species	Proponent to provide response	The SRI guideline for works under the <i>Sustainable Planning Act 2009</i> is considered applicable. Assessment against the SRI guideline is included in the additional information to the EIS.	n/a .	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.1.2
		Offsets	007.08 continued	The other SRI guideline is for works under the Sustainable Planning Act 2009, which states an action is likely to have an SRI if : - 4. a permanent modification to the volume, depth, timing, duration or flow frequency of the waterway; 5. permanent modification or fragmentation of fish habitat including but not limited to in stream vogetation, ranges and woody debris, substrate, bank or rifle formation necessary for breeding and/or survival of native fish species; or 7. works that permanently reduce the level of fish passage provided in a tidal waterway or a waterway identified as a major high risk waterway for waterway barrier works, to a level that would increase stress on fish populations. In both instances an SRI occurs with the permanent modification to the site, as this occurs with both were the SRI to the Aquatic ecology in regards to fish habitat must be offset. To calculate the offset area for the permanent inundation of the trizory. River is to identify the area of natural stream that will be permanent inundation the works (upstream area) i.e. length of inundation area by width of natural stream (Dank to bank) that will be permanently altered. This area can then be entered into the Offset Calculator and a nominal financial amount can be obtained.	Proponent to provide response			

		I	Draft EIS Submission Register - Lower Fitzroy River Infrastructure Pro	ject (July - August 2015) FOR AEIS REPORT REV 0		Institution Relevant draft EIS chapter and section Relevant AEIS report chapter and section draft EIS commits to the development of a Fish Monitoring and, to be developed in consultation with DAF during led design. An outline of monitoring measures is ded. Volume 1, Chapter 7 Aquatic ecology, Section 7.3.9.6 Volume 1, Chapter 23 Environmental management plan plan, Section 23.5.1 Volume 3 Appendix W Project commitments Chapter 13 Project commitments Appendix D Revised Project during Appendix P Revised draft environmental management plan			
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007.09		Fish monitoring	Further information that is insufficient in the dEIS document.	A detailed Fish Monitoring Program (plan) that monitors the success of the fish locks needs to be developed and included. A yearly monitoring program (for both pre and post wet season) needs to be developed with a person or entity that is suitably countified and experienced in fish passage biology and fish way design. This program needs to be reviewed by DAF Fisheries.	Proponent to provide response	The draft EIS commits to the development of a Fish Monitoring Program, to be developed in consultation with DAF during detailed design. An outline of monitoring measures is provided. Addressed in the additional information to the draft EIS and included within the revised EMP and the revised Project commitments.	Volume 1, Chapter 7 Aquatic ecology, Section 7.3.9.6 Volume 1, Chapter 23 Environmental management plan, Section 23.5.1 Volume 3 Appendix W Project commitments	Chapter 12 Environmental management plan Chapter 13 Project commitments Appendix D Revised Project commitments Appendix R Revised draft environmental management plan	
007.10	(DAF) Biosecurity Queensland	Feral animals management	s8.4.2.8, pg8-25) The potential for the project to contribute to increased numbers of feral animals due to the provision of a more permanent water source is stated in this section, which may have negative impacts (e.g. potential for increased predation on naive feana, agricultural impacts) but no actions to manage increased risks are provided.	Include a statement to indicate the proponent will take actions to manage increased feral animals during this phase of the development (e.g. monitoring, pest animal control) and/or cross-reference Section 8.9 Weed and pest species.	Proponent to provide response	As addressed in the draft EIS. The Project will develop a Feral Animal Control Program and a Weed Management Plan.	Volume 1, Chapter 23 Environmental management plan, Section 23.4.3, Section 23.5.1	Chapter 12 Environmental management plan Appendix F Revised draft environmental management plan	
007.11		Weed and pest management	s8.9. pgs8-41 to 8-42) Mitigation measures state "manage pest species in coordination with adjacent landholders and catchment management groups." Local governments are a key stakeholder but are not mentioned in relation to weed and pest management and pest management advities should be aligned and coordinated with local government priorities.	Local government should be included as a key stakeholder. Weed and pest animal management should be aligned with local government priorities.	Proponent to amend	As addressed in the draft EIS, the additional information to the draft EIS and included within the revised EMP. The Project will develop a Feral Animal Control Program and a Weed Management Plan with reference to relevant Queensland and local government legislation, guidelines and plans and in consultation with local council, community groups and landholdes.	Volume 1, Chapter 23 Environmental management plan, Section 23.4.3, Section 23.5.1	Chapter 12 Environmental management plan Appendix F Revised draft environmental management plan	
007.12	(DAF) Agriculture	Agriculture	(S12.4.2.3, pg12-21) 1. The potential for an unmitigated loss of availability and utility of agricultural land as the project may result in: - the loss of 654 ha of Class A&B land within the impoundment areas, and - fragmentation of Class A&B land due to the construction of the road.	DAF's preferred outcome is that non-agricultural land uses coexist with agricultura. Although the EIS suggests that there is potential for 20,000 ML of water to support the agricultural development of 3,050 ha within the region, the EIS does not guarantee or commit to providing this water to support agricultural development. In the absence of a detailed commitment, DAF recommends the following mitigation measures be applied: A. The proponent for the project is to legally secure land (by registration of a covenant on the land tiple) equivalent to the amount of land that will be irreversibly converted to non-agricultural uses as a result of the project. B. The base-cost total equivalent land amount regured is 565 ha of land. C. The equivalent land is to be of the same Agricultural Land Class (ALC) and productive capacity as the subject land (i.e. Lot 2 on SP158491). The equivalent land must be managed in such a way that is ALC is on diminished. D. The proponent must legally secure all equivalent land within one year of commencing works. E. The programmus to the similar for Energy and Water Supply within 20 business days of legally securing all equivalent land. F. The road is realigned to prevent fragmentation of ALC Class A&B land.	Proponent to provide response	Clarification regarding the impacts on agricultural land (Class A and B) are provided in the additional information to the draft EIS. It is not considered that further mitigation, management and/or offsets are required.	n/a .	Chapter 4 Land, Section 4.2.1	
007.13		Agriculture	(\$12.4.2.3, pg12-21) 2. The Fitzroy Agricultural Corridor should be encouraged to expand using water that becomes available from the raising of Eden Bann Weir and the construction of Rockwood Weir.	While it is recognised that new water infrastructure will be required for urban use and industry, and to only for agricultural activities, consideration should be given to making water available for agriculture as an ongoing priority user, not just restricted to pre and post mining industry requirements.	Proponent to provide response	Consultation and engagement with Rockhampton Regional Council and Regional Development Australia (Growing Central Queensland) is described in the additional information to the draft EIS.	Volume 3, Appendix F Consultation report	Chapter 2 Consultation, Section 2.6	
008.01	Rockhampton Regional Council	General comment		Overall the RRC is supportive of the LFRIP on the basis that it secures essential long term water supplies for urban and industrial uses and growth in Rockhampton, Cladstone and the Capricom Coast. In addition, it represents potential water to support development of high value agricultural industries in the proposed FAC (as identified in the QLD Government sponsored FIIS). These benefits will aid in mitigating the effects of the current down turn in the resources sector, diversify the regional economy and address high levels of regional unemployment and socioeconomic disadvantage. RRC has reviewed the Draft EIS with particular reference to its potential impacts on Council infrastructure and on Council and community interests.	Proponent to note	Noted		n/a	
008.02		Surface Water Resources - Water Security	RRC is keenly interested in potential impacts of the LFRIP on the security and reliability of the Rockhampton water supply and Counci's existing water entifements. The draft EIS indicated that for a capped 76 000 ML pa yield, the WRP WASOs are achieved and water sharing prices indices for high and medium priority user groups are improved. Information that would substantiate this is not provided (draft EIS Vol.3 Appendix V) due to commercial-in-confidence.	RRC has sought further information and access to Vol.3 App V from the proponents and signed a confidentiality deed to facilitate this. If the LFRIP were to have the effect of reducing the water sharing indexes, Council will seek some form of mitigation of that impact or appropriate compensation for erosion of the security of its current water entitlements.	Proponent to note	Noted. Draft EIS Volume 3, Appendix V IQQM yield assessment was provided to RRC as commercial in confidence.	nia	n/a	

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008.03		Water Quality	RRC is also keenly interested in potential impacts of the LFRIP on the water quality of the Barrage and ultimately Council's potable water supply to Rockhampton, Gracemere and the Capricom Coast. The draft EIS notes that in terms of operational impacts, it is evident from existing conditions that water quality in the project area is heavily influenced by environmental and anthropogenic factors (thuman activity and related land use and management) in the catchment area and these existing impacts on water quality will persist. It also notes that the combined contributions of liberated TN and TP from both EBW and KWW are relatively small, and decrease markedly beyond the first year of operation in which a large proportion of the vegetation decomposition will occur. The report also suggests that the potential for blue green algae blooms to occur within the isposition set comsidered to be low. Council's own experience in operating the FB would suggest that blue green algae blooms to deparkly to relat the potential for thin cressed coaguidant dosing and activated carbon dosing through the Glenmore water Treatment Plant.	An ongoing water quality monitoring program, including monitoring for blue green alga blooms is desirable and should be coordinated with existing monitoring. An appropriate management strategy should also be in place to minimise adverse water quality and respond to blue green algae blooms.	Proponent to provide response	As addressed in the draft EIS and included within the additional information to the draft EIS in the revised draft EMP. A water quality monitoring program will be developed and implemented, including monitoring and management of blue green algae.	Volume 1, Chapter 23 Erwironmental management plan, Section 23.5.2	12 Environmental management plan Appendix F Revised draft environmental management plan
008.04		Barrage Fishway	The draft EIS suggests in Appendix P3 that Barrage fishway will operate for longer periods and therefore provide greater habitat connectivity and fauna movement. Under the ROP, base flows are required from the barrage down to a barrage level of 2.3 mAHD. The fishway only operates down to 3.2 mAHD. A proposed small-fish additional fishway for the Barrage is currently being project managed and funded by the FBA. This new Hisway will only operate down to 3.7 mAHD and as a result, bae flows can occur when the fishway is unable to operated.	While the suggested improvement in the Barrage fishway operation is not prominent in the draft EIS it would be beneficial to confirm that these fishway operating levels have been taken into account.	Proponent to provide response	Addressed in the additional information to the EIS. Parameters for existing and proposed infrastructure as agreed with the State and included within the IQQM as implemented for the Project are provided.	Volume 3, Appendix V IQQM yield assessment (as provided to RRC as commercial in confidence)	Chapter 7 Surface water resources, Section 7.3
008.05		Transport - Roads	The draft EIS identifies potential traffic and flooding impacts of the project on State and local roads during construction and operational phases of the project. State controlled intersection upgrades are identified to adequately accommodate project traffic during the construction phase at the Bruce Highway-Aktinson Road intersection and Capricom Highway-Third Street intersection at Gogango. Local roads affected by the project include Third Street (Primary Rural Access), Riversiae Road (Major ruru Collector-60 AADT), Thirsty Creek Road (PRA), Commanche Road (PRA) and Smith Road (Secondary Rural Access), Riversiae Accessing and Foleyvale Crossing and at Haranhan Crossing. Some expansion of road reserves will be required to accommodate crossing and road upgrades. During detailed design, refinement of the project activities will be facilitated through updating traffic counts, undersking pavement impact assesments and road safety audits and developing site specific traffic management plans. A road use management plans will be developed in consultation with DTMR, RRC and LSC governing upgrades, use, maintenance and restoration (as applicately of these roads, along with identification of transport targets, updated traffic generation and road-use data and road-use management strategies.	Road and intersection upgrades identified appear appropriate at this stage and commitments of further assessment, refinement and management are noted. Improvement to the flood immunity and reduced times of closure of Fitzroy River crossings will be beneficial to existing property owners and will potentially support more intensive agricultural industry development. Improvement to the flood immunity if Thirsty Creek Road, if feasible, may be prudent to provide access to RWW during minor flood events (5 to 10 year AR). This would also improve access into the PDAs 7 & 8 of the proposed FAC identified in the FillS (2007).	Proponent to provide response	Noted Consultation and engagement with Rockhampton Regional Council and Regional Development Australia (Growing Central Queensland) is described in the additional information to the draft EIS.	n/a	Chapter 2 Consultation, Section 2.6

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008.06		Surface Water Resources - Flooding	Hydrologic input to Council's updated Fizzory Niver Flood Model (2014) is based on flood frequency anaysis and historical hydrograph scaling techniques. By way of comparison, the draft EIS assessment has used the URBS run-off routing model which has estimated the 1% AEP pack discharge as 18 800 m3/s at Yaamba while Council's flood model estimates the 1% AEP peak discharge as 16 6800 m3/s at Yaamba. Flood frequency analysis and historical hydrograph scaling was adopted for Council's 2014 Hood model to preque design discharge inflow hydrographs for the Fizzory River Catchment. This method was adopted in consultation due to precived limitations with a numff-routing approach in a very large catchment. The justification of the approach included: 1. Flood peaks are the product of a complex joint probability process involving the interaction of many random variables associated with the rainfail event, antecedent confidens and arianging rainfail. 3. Analysis of historical Ticry River flood weaths scheduling approace of the solutions. 4. The approach is aligned to industry advice from Australian a market through the catchment and provide a direct measure of flood exceedance probabilities. As a result, flood frequency analysis is less succeptible to bias that can affect alternative methods based on design rainfail. 3. Analysis of historical Ticry River flood events showed that most major events were the result of the unpredictable movement of ex-tropical cyclones through the catchment. 4. This approach is aligned to industry advice from Australian Rainfail and Runoff which notes that FFA methods are generally the most reliable means of estimating design discharges where quality stream gauge data exists for an appropriate period of record. Independent of the differences in assessment of peak design discharges, the draft EIS has measured the reliable inquark and increases in water.	Council notes that a water storage easement (or similar) will be negotiated for riparian land within the impoundment but outside of the watercourse and that the water storage easement will consider the need for a flood buffer zone on a lot-by-lot basis to account for potential flood impacts as a result of operation of the project. Design peak discharges are higher than those estimated by Council in its own modelling (downstream of the LFRIP modelling) and as such might be considered conservative.	Proponent to provide response	Noted. Flood assessment methodology is addressed in the draft EIS.	Volume 3, Appendix P Surface water resources supporting information	nia
008.07		Flora - Weed Management	The potential introduction and spread of weeds is an issue for Council, however the proposed management measures and commitments appear appropriate.	Continue to consult with council and landholders on weed management plans.	Proponent to note	Noted.	n/a	n/a
008.08		Economics	Whilst the detail of the economic analyses has been treated as commercial-in- confidence, the CBA summary suggests the project has a strong business case. The potential benefits of agricultural production that may use part of the 4200 ML unalcated strategic varier infrastructure reserve have not been quantified and are likely to be significant in their own right. These impacts have not quantified was 'due to the uncertainty around the nature and extent of these benefits relative to the best case'. Likewise, there can bring business and industry, but this is also apparently not quantified in the CBA.	The wider economic benefits of the project could potentially be acknowledged and quantified. Council considers the LFRIP as a priority economic and regional development project that will aid in diversifying the regional and local economy and will also indirectly address high unemployment and socioeconomic disadvantage in the region.	Proponent to provide response	Direct Project benefits are addressed in the draft EIS. Extensive assessments are currently being undertaken and business cases being developed in relation to development opcotrunities potentially facilitated by the project. In particular work being done by Growing Central Queensland (a collaborativ peripet aimed at boosting Central Queensland (a collaborativ peripet aimed at boosting Central Queensland as a preferred target for global investment into the agricultural sector, being driven by representatives from the Departments of State Development, Agriculture and Fisheries, and Natural Resources and Mines, along with Regional Development Australia Fitzny and Central West (RDAFCW)) and RRC in this regard are noted. Consultation and engagement Australia (Growing Central Queensland) is described in the additional information to the draft EIS.	Volume 1, Chapter 18 Social and Chapter 19 Economics	Chapter 2 Consultation, Section 2.6
009.01	Private submitter 2	General comment		The project will provide a better access to country on the Rockwood side of the river which at present is subject to isolation for extended periods during the vet season. It will also provide a boundary during the dry season which presently allows cattle to cross the river. The weir will allow further development of irrigation and access to extra water allocation.	Proponent to note	Noted	n/a	nia -
010.01	Private submitter 3	General comment	My property is impacted by the Rookwood Weir. As we have approximately 7 km of frontage to the Fitzroy River, we will lose good pasture. Also surprised that a run-of-friver power project has not been looked at.	Proceed with the development and grant water rights to landowners for compensation. My company would be interested in investigating power opportunity. Excellent report and I am in complete support of the Rookwood Weir project.	Proponent to provide response	Noted	n'a	n/a

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011.01	Fitzroy Basin Association	Remnant vegetation	P6-42, s6.3.2.2 A significant amount of remnant vegetation (RV) (1.927 ha) including 26 ha of endangered regional ecoxystems and 240 ha of v6 concern regional ecosystems, will be lost due to direct clearing of vegetation as a result of the proposed project. Offsets are only proposed for 18.5 ha of Brigalow threatened ecological community. Due to the significant clearing/inundation of remnant vegetation, FBA submits that offsets should be provided for these impacts.	The proponent provides a commitment to offset all remnant vegetation affected by this project.	Proponent to provide response	Legal obligations are addressed in the draft EIS and offsets as necessary and applicable are included. Community infrastructure designation provides for exempt development and is addressed in the additional information to the draft EIS.	Volume 1 Chapter 3 Legislation and project approvals Volume 1 Chapter 22 Offsets Volume 2 Chapter 14 Offsets	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.2
011.02		High value regrowth	p6-45, s6.32.3 This project will result in a significant area of high value regrowth (HVR) being deared or inundated as a result of this project. A total of 161.7 ha of endangered HVR, 333.7 ha of of concern HVR, and 62.8 ha 'of least' concern HRV will be impacted. Due to the significant dearing/inundation of RV, FBA submits that offsets should be provided for these impacts to demonstrate the proponent's commitment to good environmental stewardship.	The proponent provides a commitment to offset all HVR vegetation affected by this project.	Proponent to provide response	Legal obligations are addressed in the draft EIS and offsets as necessary and applicable are included. Community infrastructure designation provides for exempt development and is addressed in the additional information to the draft EIS.	Volume 1 Chapter 3 Legislation and project approvals Volume 1 Chapter 22 Offsets Volume 2 Chapter 14 Offsets	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.2
011.03		Conservation significant flora species	p6-47, s6.3.2.5 The EIS states that "there are no conservation significant flora species that have a high potential to occur in the project footprint". FBA submits that the proponent has failed to take into account the QLD Government's protected plants legislative framework when preparing the EIS. The framework addressed imposito on both itsel the interaetend plants and itseld special least concern plants. FBA submits that the proponent conducts as assessment of the project according to the framework and provides an appropriate management or offset strategy as required.	The proponent conducts an assessment of the project's impacts on plants listed under the protecte plants legislative framework.	d Proponent to provide response	It is considered that surveys undertaken for the project in relation to fora and suna are adequate and in accordance with Commonwealth and State guidelines. Impacts on fora species are addressed in the draft EIS. The draft environmental management plan provides for further commitments regarding pre-clearance obligations.	Volume 1, Chapter 6 Flora Volume 3 Appendix N Eden Bann Weir baseline terrestrial ecology report Volume 3 Appendix O Rookwood Weir baseline terrestrial ecology report Volume 1 Chapter 23 Environmental management plan	nia
011.04		Habitat fragmentation & loss of connectivity	p6-48, s6.3.3 Ch 6 of the EIS contains only a brief qualitative discussion of the potential impacts to habitat fragmentation and loss of connectivity on flora, and no quantitative data. FBA submits that significant fragmentation and loss of connectivity will occur if the project is granted approval and that this section of the EIS needs threft retails, including activat of habitat fragmentation and connectivity loss, and the impacts this will have on flora species.	The proponent fully assesses the impacts of the project on habitat fragmentation and loss of connectivity in relation to flora.	Proponent to provide response	Addressed in the additional information to the EIS. Legal obligations in relation to assessment and offsets regarding fragmentation and connectivity impacts are addressed.	n'a	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.1.3 Appendix C Connectivity
011.05		Aquatic ecology	Ch 7 The WTST is listed as critically endangered under the EPBC Act and is recommended for listing as endangered under the NC Act (Old) (<i>Limpus et al.</i> 2071). The impacts of the project on this species have not been properly considered by the proponent in the EIS, noting a lick of specific mitigation measures, management actions or offsets. FBA submits that the level of impact b this critically endangered species must be considered as a matter of urgency.	The proponent is required to properly address the impacts of the project on the WTST and provide these in all relevant sections of the EIS (e.g. Aquatic Habitat, Offsets, Species Management Plan).	Proponent to provide response	Addressed in the additional information to the EIS. Potential impacts, miligation, management and offsets in relation to white-throated snapping turtle are included.	n'a	Chapter 5 Fizzoy River turtle and white-throated snapping turtle Appendix E Fizzoy River turtle and white-throated snapping turtle species management program Appendix F. Revised draft environmental management plan Appendix G Offset proposal for the Fizzoy River turtle and white-throated snapping turtle
011.06		Fish passage	p7-9, s7.1.2.5 The proponent states that the fish passage design is based on the process used for the Paradise & Wyaralong Dams, however there is no assessment as to the effectiveness of those fish passages i.e. are they functioning as expected.	The proponent provides a quantitative assessment of the effectiveness of these fish passages in relation to their ability to the effect the upstearn migration of both small and large fishes, and their operability (i.e. How often are they are fully functional in relation to fish migration patterns).	Proponent to provide response	Addressed in the draft EIS. Fish passage design has been undertaken in accordance Queensland Fisheries guidelines and in collaboration with Queensland Fisheries incorporating best practice features an management from existing fish passage infrastructure. An assessment against the performance criteria and acceptable solutions in the SDAP Module 5 Fisheries resources code has been undertaken and is presented.	Appendix X Fish passage technical report	n'a
011.07		Aquatic habitat - downstream	p7-33, s7 2.1.3 The EIS identifies a number of sensitive environmental areas that occur downstream of the project site. The Fitzroy River Floodplain Directory of Important Wetlands has not been listed or assessed.	The proponent assessed the impact of the project on the Fitzroy River Floodplain wetland.	Proponent to provide response	Addressed in the draft EIS. Four Directory of Important Wetlands are referenced and mapped and include Fitzroy River Detta, GBRMP Wetland, Northeast Curtis Island Wetland, Narrows Wetland.	Volume 1, Chapter 7 Aquatic ecology, Section 7.2.1.3, Section 7.3.11	n/a

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011.08		Aquatic habilat	p7-63, s7-32.1 This section states that confirmed WTST nesting siles within the RW Weir construction footprint will be lost as a result of this project, the EIS further states in relation to the Fitzroy River turtle that " There is no aggregated nesting at the construction sites and only isolated nesting has been recorded. This loss of habitat is not expected to impacts on the turtles." Given the current conservation status of these species and the significant cumulative loss of turtle habitat that will result if this project is approved, FBA solmist that the habitat loss described in this section would constitute a significant impact and requires mitigation measures and offsets. This especially significant given that <i>Limpus et al.</i> 2011 states that both species are " not functioning well in the Resbank, Glenroy and Rookwood Crossings reaches of the Fitzroy River" and that both populations under current management practices." appear not to be sustainable." The above information is equally relevant for the impacted areas of the Redbank and Glenroy crossings.	The proponent alters the EIS to properly assess the construction areas and river crossings in relation to impacts on threatened fireshwater turtle habitat, including appropriate mitigation measures and offsets.	Proponent to provide response	Addressed in the additional information to the EIS. Potential impacts, miligation, management and offsets in relation to white-throated snapping turtle are included.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle Appendix E Fitzroy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan Appendix C Offset proposal for the Fitzroy River turtle and white-throated snapping turtle
011.09		Aquatic habitat - mitigation measures	p7-63, s7.3.2.2 This section provides mitigation measures for impacts on aquatic habitat loss. The section fails to include any mitigation measures that would successfully avoid impacts to the WTST. For example, designing a construction schedule that avoids construction works that may impact on turtle habitat during the peak turtle nesting and hatching season (September to March) will be largely ineffectual for the VTST, which starts nesting in May. The Fitzroy River Turtles are known to begin nesting in July and August.	The proponent alters the mitigation measures to cover the full turtle nesting season for both species.	Proponent to provide response	Addressed in the additional information to the EIS. Potential impacts, miligation, management and offsets in relation to white-throated snapping turtle are included.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle Appendix W Fitzroy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan
011.10		Impact to freshwater turtles	p7-67, s7 3.3.2 The EIS does not include a quantitative assessment of the substantial reductions in turtle nesting capacity, turtle growth rates (due to decrease of food supply) and annual survivorship/population recruitment that would result due to the significant habitat alteration and inundation caused by inundation and altered flow regimes. Given that both timestaned turtle species stand to be significantly negatively impacted by the proposed project, it is imparative that such impacts be given full assessment, including the likely effect on already small and fragmented populations of these species.	The proponent provides a full quantitative assessment of the expected impacts on turtle nesting capacity, turtle growth rates and annual survivorship/population recruitment that could be expected to affect each species' population as a result of this proposed project.	Proponent to provide response	Addressed in the draft EIS. Assessment regarding flow regimes etc included within the additional information to the draft EIS, including a species management plan and offsets.	Volume 1, Chapter 7 Aquatic ecology, Section 7.3.12. Appendix L Fitzry River turtle (Rheodytes leukops) technical report	Chapter 5 Fitzroy River turtle and white-throated snapping turtle Appendix W Fitzroy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan Appendix G Offset proposal for the Fitzroy River turtle and white-throated snapping turtle
011.11		Turtle nesting habitat	P7-70, 57.3.4 This section describes the direct loss of nesting habitat within the impoundments. The EIS establishes that 5.7 ha of FRT nesting habitat will be directly lost (imutade) as a result the project. No assessment has been provided of direct nesting habitat loss for the WTST.	The proponent assesses the area of direct impact on WTST nesting habitat as a result of the project.	Proponent to provide response	Addressed in the additional information to the EIS. Potential impacts, mitigation, management and offsets in relation to white-throated snapping turtle are included.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle Appendix E Fitzroy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan Appendix G offset proposal for the Fitzroy River turtle and white-throated snapping turtle
011.12		Flow regime - operational	p7-77, s7 3.7.1 The EIS states that " there is expected to be an increase in downstream flows during the dry season with peak water releases occurring immediately poirto the pro-summer floods. An increase in water flows during the early September is unlikely to affect nests of the FRT as the releases are likely to have commenced prior to the peak laying period and therefore eggs will be laid above the water line and not drowned." FBA's experience in managing the FRT conservation program demonstrates that nesting can commence as early as July or August. Any nests laid during this time are highly to be inundated as a result of the pre-summer releases. The EIS further states that "nests of the WTST are at most risk of inundation as these species lay but not hatch, prior to the predicted increase in water release". No species limitigation measures or offests have been proposed in the EIS to address this significant impacts on the species.	The proponent alters the EIS to fully describe the likely impacts of rising water levels on nests of both FRT & WTST and also justifies how the proposed offsets for the FRT (predominantly nest protection) and expected offsets for the WTS, will be successfully implemented when nests laid during the period May-August are likely to be lost due in unnation. This encompases the whole of the snapping turtle nesting season, and approximately one-third of the FRT nesting season.	Proponent to provide response	Addressed in the additional information to the EIS. Consideration flows relative to nesting periods are discussed.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.3
011.13		Flow regime - mitigation measures	p7-78, s7 3.7 2 This section of the EIS describes the mitigation measures that the proponent will implement to avoid or reduce the impacts of the project, specifically in relation to alteration of downstream flow regimes. The proponent states that the operation strategy of the weirs will be dictated by the Fitzory WRP and ROP, however FBA submits that these documents have not been designed to include specific mitigation measures for threatened turtles in this scenario, and that species-specific mitigation measures are required.	The proponent provides specific mitigation measures that are demonstrably effective at protecting turfle nesting banks, and what the proponent's response will be if nesting banks are inundated, compromising the proposed offsets program of nest protection.	Proponent to provide response	Addressed in the additional information to the EIS. Potential impacts, mitigation, management and offsets in relation to Fitzroy River turtle and white-throated snapping turtle are included.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle Appendix E Fitzroy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan Appendix G Offset proposal for the Fitzroy River turtle and white-throated snapping turtle

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011.14		River connectivity - mitigation measures	p7-85, s7.39.6 The proponent proposes a number of mitigation measures to potentially reduce the project's effects on river connectivity, by facilitating the movement aquatic fauna up or down stream past the impoundment walls. The mitigation measures described are primarily qualitative in nature, and do not demonstrat the level of commitment that the proponent will commit to, to ensure the outcomes of the proposed measures are achieved.	FBA submits that the mitigation and any associated success criteria, are described quantitatively, and are included in the environmental conditions attached to this project if approved. We suggest appropriate monitoring would include the recording the numbers and species, including the size of each species, utilising the staways and turtle range during a range of flow events to demonstrate that the mitigation measures are being effective. In addition, we submit that the proponent coordinates a "freshwater turtle management group", similar to the fish passage design leam, to provide advice on freshwater turtle management and turtle ramp design, operation and monitoring.	Proponent to provide response	Addressed in the draft EIS. Mitigation measures are included within environmental management plans and Project commitments, inclusive of continued engagement and collaboration with relevant State government agencies in the development and preparation of final management plans. Environmental management and Project commitments are confirmed in the additional information to the draft EIS.	Volume 1, Chapter 23 Environmental management plan Volume 3, Appendix M Fitzroy River turtle (Rheodyles leukops) species management program Volume 3, Appendix W Project commitments	Chapter 5 Fizzroy River turtle and white-throated snapping turtle Chapter 12 Environmental management plan Chapter 13 Project commitments Appendix D. Revised Project commitments Appendix E. Fizzroy River turtle and white-throated snapping turtle species management program Appendix F. Revised draft environmental management plan
011.15		Filzroy River Turtle	p7-88, s7 3.12.1 - Impacts on conservation significant aquatic fauna: FRT. The EIS states "although considered preferred habitat, pool ruffle-run sequences are not critical to the survival of the species. The shallow margins and upstream reaches of the impoundment are expected to contain suitable habitat for the FTR and the presence of this species within existing impoundments substantiates this expectation." FEA agrees that limited suitable habitat may become available at the edges of the impoundments, however it is important to note that <i>Lingus</i> et al. 2011 states that such habitat is not preferred by the FRT (or WTST) and therefore suprots a lower carrying capacity due to limited nesting and foraging options. The authors further state that "the larger impoundments and the longer it is i place, the lower the biodiversity of turtles within the impoundment."	FBA submits that the proponent includes further information in this section of the EIS regarding impoundments resulting in lower carrying capacity for specialist turtles such as the FRT & WTST.	Proponent to provide response	Addressed in the draft EIS. Assessment regarding flow regimes etc included within the additional information to the draft EIS, including a species management plan and offsets.	Volume 1, Chapter 7 Aquatic ecology, Section 7.3.12.1 Appendix L. Fitzroy River turtle (Rheodytes leukops) technical report	Chapter 5 Fitzroy River turtle and white-throated snapping turtle Appendix E Fitzroy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan Appendix G Offset proposal for the Fitzroy River turtle and white-throated snapping turtle
011.16		Fitzroy River Turtle	p7-89, 97.3.12.1 - impacts on conservation significant aquatic fauna: FRT. The EIS states "impacts to the availability and quality of habitats downstream of the project footprints are not expected to be adversely impacted and will be maintained through operational releases in accordance with the Fitzoy ROP." FBA submits that the ROP does not contain specific measures relating to threatened freshwater turtle nesting habitat and an appropriate release regime and is therefore does not include permanent measures to address downstream impacts of altered flow regime on turtle nesting.	FBA proposes that the proponent could address this issue through conducting (or providing funding for) a study that determines the optimal water release regime to minimise the drowning of turtle nests and the alteration of natural flows and implementing an appropriate water release program.	Proponent to provide response	Addressed in the draft EIS in relation to weir operations and ROP development. Addressed in the additional information to the EIS and included in environmental management plans and Project commitments.	Appendix M Fitzroy River turtle (Rheodytes leukops) species management program	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.1, Section 5.3 Chapter 12 Environmental management plan Chapter 13 Project commitments Appendix D Revised Project commitments Appendix E Fitzroy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan
011.17		Impact on birds	p8-61, e8.3.5.2 The project will result in a significant area of vegetation being inundated (3 221 5 Aa). FBA submits that the proponent has not adequately assessed the impact that this inundation will have, particularly on threatened or significant species that prefer inpairian areas to hobitat or foroging. FBA suggests that the level of inundation is sufficient for it to be determined that the impact to riparian-association species is significant.	FBA submits that the proponent properly considers the significant impact that this project will have on threatened/significant bird species with known ripartan affinities, such as red goshawk and powerful owl.	Proponent to provide response	Further assessment regarding impacts on red goshawk and powerful owl are provided in the additional information to the draft EIS. It is concluded that potential impacts on these species is not significant and offsets are not proposed.	n'a	Chapter 6 Terrestrial fauna, Section 6.1, Section 6.2
011.18		Impact on mammals	p8-64, e8.3.5.3 The project will result in a significant area of vegetation being inundated (3 221.5 ha). FBA submits that the proponent has not adequately assessed the impact that this inundation will have, particularly on threatened or significant species that prefer riparian/aquatic areas for habitat or foraging; species include koals and ghost bat. FBA suggests that the level of inundation is sufficient for it to be determined that the impact to riparian-association species is significant. Furthermore, FBA submits that the pelophys, a special least concern species; has not been considered by the proponent as a 'conservation significant' mammal, although habitat records for this species are known for the project area.	FBA submits that the proponent properly considers the significant impact that this project will have on threatened/significant mammal species with known riparian/aquatic affinities, such as koala, ghost bat and platypus.	Proponent to provide response	It is considered that assessment as relevant and appropriate is included within the draft EIS regarding impacts on terrestrial fauna species.	Volume 1, Chapter 8 Terrestrial fauna Volume 2 Chapter 10 Listed threatened species and ecological communities Volume 3, Appendix N Eden Bann Weir baseline therestrial ecology report Volume 3, Appendix O Rookwood Weir baseline terrestrial ecology report	n/a
011.19		Riparian habitat - mitigation measures	p8-67, s8.3.6.2 The project will result in a significant area of vegetation being inundated (3 221.5 ha) therefore significant fragmentation of fauna habitat is expected to occur. The EIS process on mitigation measures against this impact stating "fragmentation of some riparian habitat is unavoidable impact associated with impoundment and mitigation opportunities are limited."	FBA submits that sufficient mitigation options are available, and that a suitable action would be to permanently secure and manage an equivalent amount of land on the boundary of the inundated area to compensate for the loss of the original riparian habitat.	Proponent to provide response	Legal obligations are addressed in the draft EIS and offsets as necessary and applicable are included. Community infrastructure designation provides for exempt development and is addressed in the additional information to the draft EIS.	Volume 1 Chapter 3 Legislation and project approvals Volume 1 Chapter 22 Offsets Volume 2 Chapter 14 Offsets	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.2

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011.20		Koala habitat	p8-71, Table 8-15 - Koala habitat within project footprint. The EIS states "as koalas are predicted to occur at low densities based on field surveys and species ecology, it is unlikely that habitat loss as a result of the project would increase intraspecific competition for resources." Furthermore, no quantitative data has been included in the EIS to support the assessment that "The project is not expected to result in a decrease in the size of the local koalas population." FBA submits that this statement is incorrect, it is known that koalas inhabit large home ranges to allow for successful foraging, and that koalas are highly territorial, and if dispersed or forced to move to another area, are not likely to survive.	FBA submits that the proponent revises this section of the EIS to include quantitative data to support their assessment.	Proponent to provide response	The assessment presented in the draft EIS is considered relevant and appropriate to the nature and scale of potential project impacts.	Volume 1, Chapter 8 Terrestrial fauna, Section 8.3.9.2	n/a	
011.21		Powerful Owl	p8-72, e3.3.9.3 The EIS states that "loss of individual nesting trees is not expected to have a significant impact on the species" FBA submits that a significant area of foraging habitat will be lost as a result of his project, and no assessment has been provided to determine this impact. Importantly, prey species that inhabit riparian areas will become scarce adjacent to the project site as habitat is removed.	FBA submits that the proponent revises this section of the EIS to include quantitative data to support their assessment, and address the comments regarding foraging habitat and prey scarcity.	Proponent to provide response	Further assessment regarding impacts on powerful owl are provided in the additional information to the draft EIS. It is concluded that potential impacts on the powerful owl are not significant and offsets are not proposed.	n/a	Chapter 6 Terrestrial fauna, Section 6.2	
011.22		Terrestrial fauna - mitigation measures	p8-76, 58.4 (Summany) The EIS states that "six threatened terrestrial fauna species were recorded within the project footprint during field surveys. Two special least concern species (echidna & kola) were selve recorded or evidened during the field surveys. An additional three conservation significant species were identified in desklop assessments as having a high potential to occur within the project tooprint but not condred during surveys. With the above mitigation and management measures in place adverse impacts on these conservation significant species are not anticipated as a result of the project." The proponent has not provided any quantitative data to support their assessment that their proposed mitigation measures (which were absent in some sections of this chapter) will be appropriate to avoid significant impacts to the listed threatened and special least concern species.	FBA submits that the proponent revises this section of the EIS to include quantitative data to support their conclusion regarding the significance of impacts.	Proponent to provide response	The assessment presented in the draft EIS is considered relevant and appropriate to the nature and scale of potential project impacts.	Volume 1, Chapter 8 Terrestrial fauna Volume 1, Chapter 23 Environmental management plan	n/a	
011.23		Proposed developments	The EIS states that "the FAC was developed as part of the FIIS which was concluded in 2007. The study recommended the development of the FAC in an area within 10 km of the FIzry River between the junction of the Dawson and Mackenzie Rivers and lands around the existing EBW. The proposed agriculture corridor would develop intensive livestock industries, particularly beef cattle feedots, with some oppositunistic irrigated horiculture. The study was completed in 2007 but no further implementation plans were confirmed. More recently, through RDA's GCQ initiative and RRC's promotion of agriculture development within the region (the FAC) it is possible that some agriculture development within the region (the FAC) it is possible that some agriculture development within the region (the FAC) is provided within the ELS, or in the cumulative impacts section of which it would be a significant contributor. It was previously established within the ELS, or in the cumulative impacts section of which it would be a significant contributor. It was previously established within the ELS that this project (LRIP) would provide a surglus of water supple, agriculture development has been conducted There is a very high potential that this water could be used to develop the FAC, however no proper assessment of fluid development has been conducted gainst likely impacted assets, including fore, fsuns, water quality and the GBRMP and WHA.	FBA submits that the proponent properly consider the potential impact that the FAC is likely to have on flora, fauna, water quality and the GBRMP & WHA.	Proponent to provide response	The development of the FAC is not the action proposed as part of the project. Facilitated development is addressed in the draft EIS. Further assessment regarding the potential use of 42.000 ML/a high priority water for agricultural purposes is included within the additional information to the draft EIS.	Volume 2, Chapter 12 Cumulative and consequential, Section 12.4	Chapter 8 Water quality, Section 8.2.3 Chapter 11 Consequential impacts	
011.24		Cumulative impacts	p21-24, Table 21-5 - project's contribution to cumulative impacts. The EIS states that "Currently approximately 36% of the Fitzroy, Dawson and Mackenzie sub-catchments have been impounded as a result of in-stream water infrastructure (Table 21-1). The project will result in the inundation of an additional 113 km, increasing the area of impacted habitat within the sub- catchment by approximately 10%. In combination with Nathan Dam (7% increase) and approved Connors River Dam (5% increase) the total increase in impoundment area would be approximately 22%." The EIS goes on further to state that "localised short-term habitat degradation as a result of construction activities would not contribute significantly to cumulative impacts".	FBA submits that cumulative impacts relating to the increase in area of impoundments by 22% would be deemed significant, and therefore suggests that this section of the EIS should be amended.	Proponent to provide response	With mitigation, management and offset measures as proposed for the Project implemented the assessment presented in the draft EIS is considered relevant and appropriate to the nature and scale of potential project impacts.	Volume 1, Chapter 21 Cumulative impacts Volume 1, Chapter 23 Environmental management plan	n/a	

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011.25		Regulated vegetation	p22-5, s22 2.3.1 This section of the EIS describes the regulated vegetation required to be offset as part of the project. There is no provision for protected plants that fall under the Queensland Government's Protected Plant Legislative Framework.	The proponent conducts an assessment of the project's impacts on plants listed under the protecter plants legislative framework, and amends this section of the EIS to include any required offsets.	Proponent to provide response	It is considered that surveys undertaken for the project in relation to flora and fauna are adequate and in accordance with Commonwealth and State guidelines. Impacts on flora species are addressed in the draft EIS. The draft environmental management plan provides for further commitments regarding pre-clearance obligations.	Volume 1, Chapter 6 Flora Volume 3 Appendix N Eden Bann Weir baseline terrestrial ecology report Volume 3 Appendix O Rookwood Weir baseline terrestrial ecology report Volume 1 Chapter 23 Environmental management plan	n'a
011.26		Connectivity areas	p22-6, s22.2.3 2 The EIS states that no offsets for connectivity are proposed as the proponent does not deem the residual impacts significant. FBA submits that this project will result in the significant fragmentation of habitat corridors and loss of connectivity (J221. ha of vegetation removed or inundated) and that offsets are required.	FBA submits that sufficient offset options are available to mitgate the impacts of habitat and corrido fragmentation, and that a suitable action would be to permanently secure and manage an equivalent amount of land on the boundary of the inundated area to compensate for the loss of the original riparian habitat.	r Proponent to provide response	Addressed in the additional information to the EIS. Legal obligations in relation to assessment and offsets regarding fragmentation and connectivity impacts are addressed.	n/a	Chapter 3 Legislation regulatory frameworks and project approvals, Section 3.1.3 Appendix C Connectivity
011.27		Protected wildlife habitat - offsets	p22-7, s22.2.3.4 This section of the EIS states that protected wildlife is present within the project area for the following vulnerable or special least concern species: squatter pigeon, powerful owl, FRT, koala, echidna, estuarine crocodile and Brigalow scaly-foot. FBA submits that the red goshawk, ghost bat, platypus and WTST are also subject to significant impacts as a result of this project and should be eligible tor offsets under this section. Furthermore, FBA submits that species such as the powerful owl, koala and Brigalow scaly-foot, in addition to the red goshawk ghost bat, playbus and WTST, would all experience significant residual impacts as a result of this project.	t The proponent amends this section to provide impacts for the powerful owl, koala, Brigatow scaly- foot, red goshawk, ghost bat, platypus and WTST. It is likely that offsets for these species would be able to be combined based on some shared habitat preferences.	Proponent to provide response	The assessment presented in the draft EIS with regard to protected wildlife is considered relevant and appropriate to the nature and scale of potential project impacts. Further assessment regarding impacts on red goshawk and powerful ow are provided in the additional information to the draft EIS. It is concluded that potential impacts on these species is not significant and offsets are not proposed.	Volume 1, Chapter 8 Terrestrial fauna Volume 1, Chapter 23 Environmental management plan	Chapter 6 Terrestrial fauna, Section 6.1, Section 6.2
011.28		Offsets - Fitzroy River Turtle	p22.9, s22.3 This section of the EIS contains proposed offset strategies and management for the FRT. FBA submits that the details of the strategies and management are not quantitative, and are therefore unable to be accurately monitored or measured. In addition, the WTST has not been considered in this section.	The proponent expands its offset proposal for the FRT to include the WTST (taking into account the differences between the species), and to provide quantitative offsets and monitoring targets to allow the success of offset implementation to be effectively measured and changes made to the program if necessary.	Proponent to provide response	Addressed in the additional information to the EIS. Potential impacts, miligation, management and offsets in relation to Fitzroy River turtle and white-throated snapping turtle are included.	n/a	Chapter 5 Fizzoy River turtle and white-throated snapping turtle Appendix E Fizzoy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan Appendix G Offset proposal for the Fizzoy River turtle and white-throated snapping turtle
011.29A		Offsets managemeni plan	p22-13, Table 22-1 This section includes performance criteria and implementation strategy and proposed monitoring, however there are no or little quantitative measures, or for how long the offset program will be implemented for.	The proponent amends this section to include specific, measurable targets for performance, implementation and monitoring.	Proponent to provide response	Addressed in the additional information to the EIS. Potential impacts, mitigation, management and offsets in relation to Fitzroy River turtle and white-throated snapping turtle are included.	n/a	Chapter 5 Fizroy River turtle and white-throated snapping turtle Appendix E Fizroy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan Appendix G Offset proposal for the Fizroy River turtle and white-throated snapping turtle
011.29B		Offsets - Fitzroy River Turtle	p22-13, Table 22-1 The proponent submits that "Individual turtle nests laid within monitoring areas (to be determined) will be protected within 24 h of being laid. FBA seeks to clarify whether this means the proponent will ensure that nest protection activities are carried out 7 days per week throughout the nesting season 70 are regenerie with coordinating the FRT conservation program is that daily patrols are necessary to protect nests before predators can located them; success in finding newly laid nests before predators means timing is ortical. Daily monitoring of hatching nests is also necessary to successfully determine the results of the protection program.	FBA submits that the proponent amends this section to include daily nest protection and monitoring patrols to ensure that the maximum number of nests are protected and monitored to document program success.	Proponent to provide response	Addressed in the additional information to the EIS. Potential impacts, mitigation, management and offsets in relation to Fitzory River turtle and white-throated snapping turtle are included.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle Appendix E Fitzroy River turtle and white-throated snapping turtle species management program Appendix F. Revised draft environmental management plan Appendix G Offset proposal for the Fitzroy River turtle and white-throated snapping turtle
011.30		White-throated snapping turtle	Vol 2, p10-1, s10.1 - Overview of MNES This assessment of MNES does not include specific management actions or consideration of project impacts on the WTST.	The proponent amends this section of the EIS to include a full assessment of the WTST.	Proponent to provide response	Assessment with regard to the white-throated snapping turtle as MNES is appropriately reported in the draft EIS. The white-throated snapping turtle is currently listed as critically endangered under the EPBC Act. At the time of assessment and referral decision (EPBC 200956) being made the species was however not listed as a threatened species. For this reason, under the EPBC Act further assessment as a MNES is not required. Potential impacts, mitigation, management and offsets in relation to white-throated snapping rutter are included in the additional information to the draft EIS.	Volume 1, Chapter 7 Aquatic ecology, Section 7.2.2.3	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.2 Appendix G Offset proposal for the Fitzroy River turtle and white-throated snapping turtle

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011.31		Agricultural development	Vol 2, p12-21, s12.4.2.3 The EIS states that 31 000 ha of unconstrained land and 16 000 ha of moderately constrained land was identified in the FIIS as available for intensive agricultural development (Intensive animal husbandry, intensive agriculture/horticulture and broad acre cropping). The EIS presents a cartain scenario with relation to the contribution the project could have to the overall agriculture development in the region: two 10 000 cattle unit feedlots and 2 000 ha irrigated broad acre crops, 736 ha of irrigated broad acre crops, 316 ha of irrigated horticultural crops. The EIS states that "the potential consequential development attributable to the project would therefore represent an increase of approximately 15% in the number of animals" and in relation to cropping "would therefore represent a minor increase in cropping of less than 5%. EPA questions the relevance and accuracy of this scenario given that the area available for intensive agriculture and intensive cropping is significantly larger than the scenario provided.	FBA submits that a realistic scenario, calculated at full development of the proposed FAC, be provided in order to properly and accurately assess potential impacts, including on downstream water quality and the GBRMP & WHA. This is particularly important given the known role of agricultural development in the decline in water quality due to increased sediments, nutrients and pesticides, and the Commonwealth and Queensland Government's commitments to improving the health of the GBR.	Proponent to provide response	Facilitated development is addressed in the draft EIS. Further assessment regarding the potential use of 42.000 ML/a high priority water for agricultural purposes is included within the additional information to the draft EIS.	Volume 2, Chapter 12 Cumulative and consequential, Section 12.4	Chapter 8 Water quality, Section 8.2.3 Chapter 11 Consequential impacts
012.01	Department of Education and Training	Traffic	DET notes that the state primary schools at Duaringe and Gogango will not be directly impacted by the proposed project.	The Department accepts the advice contained in the EIS that the impact of noise from increased traffic will be minor and that the increased traffic during construction will not adversely impact schoo transport services.	Proponent to note	Noted.	n/a	n/a
013.01	Private submitter 4	Land Use	Section 5.5.3 2 land use flood/storage margin How is the management of this happening? Our property will be impacted. Will there be compensation conducted in relation to the following: fencing off waterways or construct new or different water point due to the river banks change due to the higher river levels; lower or reduced stocking rates.	This needs to be clearer. We have not long purchased this property and the river is a major asset. The raising of the water level will change the dynamics of how we have to manage our 5 km frontage and this needs to be assessed better.	Proponent to provide response	Land use and potential Project impacts on the use of rural land for rural purposes was addressed in the draft EIS, including proposals be enter into negotiations with impacted landholders with regard to specific impacts on their individual properties. Further updates are provided in the additional information to the draft EIS.	Volume 1 Chapter 5 Land, Section 5.5.3.2 Volume 1 Chapter 18	Chapter 4 Land, Section 4.2.2 Chapter 13 Project commitments Appendix D Revised Project commitments
013.02		Land Use	Section 5.4.2.2 Buffer zones 500 metres from the bank. This document discusses a buffer zone, in future there will be restrictions to the land owner in this area?	The 500 metre buffer zone will restrict our operation. This is additional to the flood/storage margin. We will have over 300 acres (approx) or 5 km of river frontage flagged in this buffer zone. This shall be classed as margin as well and the landholder shall be entitled for compensation for this restriction? Some of the sweetest country is in this area.	Proponent to provide response			
014.01	Private submitter 5	Land Use	Eden Bann Weir Project. Please find below our concerns and effect on our cattle property in the Glenroy district. Water will back up runners/gulfies through our property casing hazardous bogging issues for livestock. Erosion of land causing bank subsidence would make it hazardous for livestock to water and also potentially stock access to our stock water pumps in the river. The area of restriction proposed along the river bank may impact future plans for our property.	There would be a change to our property management practices as we currently don't need to have the river/guilles fenced off.	Proponent to provide response	Land use and potential Project impacts on the use of rural land for rural purposes was addressed in the draft ELS, including proposals to entri no negotiations with impacted landholders with regard to specific impacts on their individual properties. Further updates are provided in the additional information to the draft ELS.	Volume 1 Chapter 5 Land, Section 5.5.3.2 Volume 1 Chapter 18	Chapter 4 Land, Section 4.2.2 Chapter 13 Project commitments Appendix D Revised Project commitments
015.01	Department of Infrastructure Local Government & Planning	General	Planning Group in DILGP have no comments to make on this EIS		Proponent to note	Noted.	n/a	n/a
016.01	Private submitter 6	Land	Our property is subject to inundation. Parts 1 to 5 (ind) of a document that was previously supplied by GHD together with a map (atched as part of the submission) and we understand these subjects will be subject one on one basis negotiation.	There needs to be clarification that legal and valuation representatives of the owners should be allowed to be present at "one on one" negotiations at the project expense	Proponent to provide response	Land use and potential Project impacts on the use of rural land for rural purposes was addressed in the draft ES, including proposals to entri non equitations with impacted landholders with regard to specific impacts on their individual properties. Further updates are provided in the additional information to the draft EIS.	Volume 1 Chapter 5 Land, Section 5.5.3.2 Volume 1 Chapter 18	Chapter 4 Land, Section 4.2.2 Chapter 13 Project commitments Appendix D Revised Project commitments
016.02		Fencing	Part 6 - Clarification is needed that this will be acceptable if an owner requests it.		Proponent to provide response			
016.03		Inundation impacts	Part 7 - The survey of the inundated area boundary will render the 1996 survey redundant. Is this so?		Proponent to provide response			

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016.04		Access to pumps and power	Parts 8,9,10: Again on a "one to one basis" as above Part 1 to 5.		Proponent to provide response					
016.05		Inundation impacts	Part 11 - No where in the impacts have the impact on stock been accommodated while other species have received considerable study. Particularly in the smaller blocks the provision of wild life corridors and consequently shade areas for stock by the owners will be negated by water.	This must be addressed.	Proponent to provide response					
016.06		Dust and road upgrades	Part 12 - Vol 1 18.3.31 under the heading "Potential Impacts and Lifestyle Impacts" has not addressed any of the concerns and suggestions presented to GHD. Because there are only 6 residences immediately adjacent to Riverslea road and 3 some distance away the impact to these people (of which group we belong) is very real and of HIGH impact thereas in the total project we are categorised as "LOW impact" in the construction stage. This impact will not cease at the conclusion of the construction as the benefitied area further on will attract much increased traffic. History shows that point and does not cover the whole 15-20 km efficiently especially in dry periods.	We know from experience when Councils are at our door doing maintenance they water and then move on leaving the dust problem for another 365- days. The fact that all these properties are now each serviced by a small length of sealed surface identifies the problem but experience (since these areas were many sealed years ago) of prevailing winds upgrading the speed capabilities of the roa surfaces and the speed efficiencies of both loaded and smaller vehicles necessitates the extension of those sealed surfaces to approximately 500 metres each side of the residences.	Proponent to provide response	Road and traffic impacts are addressed in the draft EIS, including proposals to enter into negotiations with impacted lancholders with regard to specific impacts on their individual properties. Mitigation and management measures were included in the draft environmental management plan. Further updates are provided in the additional information to the draft EIS.	Volume 1 Chapter 5 Land, Section 5.5.3.2 Volume 1, Chapter 12 Air quality, Section 12.3.2 Volume 1, Chapter 18 Social impacts Volume 1, Chapter 23 Environmental management plan	Chapter 4 Land, Section 4.2.2 Chapter 13 Project commitments Appendix D Revised Project commitments		
016.07		Land access	Part 13: OK		Proponent to note	Noted.	n/a	n/a		
016.08		Water entitlements	Part 14 - Will this be addressed?		Proponent to provide response	Land use and potential Project impacts on the use of rural lan for rural purposes was addressed in the draft EIS, including proposals to enter into negotiations with impacted landholder with regard to specific impacts on their individual properties. Further updates are provided in the additional information to the draft EIS.	d Volume 1 Chapter 5 Land, Section 5.5.3.2 Volume 1 Chapter 18	Chapter 7 Surface water resources, Section 7.1 Chapter 13 Project commitments Appendix D Revised Project commitments		
017.01	Department of State Development (Regional Services)	Project Rationale	The second para refers to Regional Development Australia's Growing Central Queensland initiative	Growing Central Queensiand is a collaborative project aimed at toosting Central Queensiand as a preferred target for global investment into the agricultural sector. The group driving the project includes representatives from the Departments of State Development, Agriculture and Fisheres, and Natural Resources and Mines, along with Regional Development Australia Fitzroy and Central West (RDAFCW).	Proponent to note	Noted. Referenced in the additional information to the draft EIS.	n/a	nla		
017.02		Project Rationale	The project presents a range of opportunities and positive benefits to regional, State and national economies	Regional Services DSD is supportive of the project for the following: Regional Services DSD is supportive of the project for the following: Fetween 2002 and 2007, a number of assessments of ension, transport and health impacts of proposed feedlos and intensive animal husbandry activities were undertaken within the Fitzroy Industry and Infrastructures Study (FIG): FIIG was facilitated by a former iteration of the DSD and involved a number of state government departments and Rockhampton Regional Council. * The Fitzroy Agricultural Corridor is the focus of a current bid by the Growing Central Queensland collaborative to attract investment in both existing and new agriousinesses to grow the agricultural sector in the region. * Any significant increase in agricultural production in the Fitzroy Agricultural Corridor is dependent on the development of additional water storages on the Fitzroy River, upgrading roads and provision of additional power supplies and telecommunications infrastructure. * The Fitzroy Agricultural Corridor and Rockwood and Eden Barn weis have been identified in the Australian Government's Water Infrastructure Options Paper, Pivol North – Inquiry into the Development of Morthern Australia perol (September 2014) and the Agricultural Competitiveness Green Paper (October 2014) as "warranting further investigation".	Proponent to note	Noted.	n/a	nia		
017.03		Other Infrastructure	Any significant increase in agricultural production in the Fitzroy Agricultural Conidor is dependent on upgrading roads and provision of additional power supplies and telecommunications infrastructure.	Consider opportunities for co-development and cost sharing of new or upgraded infrastructure requirements, particularly in relation to a higher level of treatment to the intersection at Capricom Highway and Third Street, Gogango.	Proponent to provide response	The proponents have and continue to engage and explore opportunities with local and regional stakeholders as addressed in the draft EIS and additional information to the draft EIS.	Volume 3, Appendix F Consultation report	Chapter 2 Consultation, Section 2.6 Chapter 4 Land, Section 4.2.1		
017.04		Social and Economi Impacts	The EIS discusses potential for competing demands for unskilled labour, citing historic losses by small businesses of personnel to more lucrative industries such as the resources sector.	At March 2015, Rockhampton's unemployment (SA3) was 7% and tracking upwards in comparison with Queensland's rate of 6.5%. The downturn in the resources sector over the last 18 months to two years has contributed to the increase in unemployment. Employment in lower skilled jobs in the region is falling, Regional Services, DSD, can work with the proponents to develop workforce participation strategies including for indigenous and minority groups and facilitate introductions to key regional labour force stakeholders.	Proponent to provide response	The proponents have and continue to engage and explore opportunities with local and regional stakeholders as addressed in the draft EIS and additional information to the draft EIS.	Volume 3, Appendix F Consultation report	Chapter 2 Consultation, Section 2.6 Chapter 12 Environmental management plan Appendix F Revised draft environmental management plan		

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017.05		Social and Economic Impacts	The EIS discussed opportunities for local business to benefit from the project	To ensure the greatest economic benefit to the region from the construction phase, Regional Services, DSD, can provide awareness raising of the project and the individual work packages to local businesses through industry briefings and opportunities to present at a Major Projects Forum. Regional Services can also provide business matching and up-to-date advice on regional supplier capabilities.	Proponent to provide response	The proponents have and continue to engage and explore opportunities with local and regional stakeholders as addressed in the draft EIS and additional information to the draft EIS.	Volume 3, Appendix F Consultation report	Chapter 2 Consultation, Section 2.6 Chapter 12 Environmental management plan Appendix F. Revised draft environmental management plan
018.01	Department of Housing and Public Works (Housing Services)	General	Nil Comment		Proponent to note	Noted.	n/a	n/a
019.01	Department of Transport and Main Roads	Transport - traffic	The traffic count data used for the Capricorn Highway/Third Street and Bruce Highway/Atkinson Road intersections are out of date.	More recent traffic counts are needed at the Capricom Highway/Third Street and Bruce Highway/Alkinson Road intersections. Turning lane warrants are also to be assessed against more recent counts as per the TMR Road Planning and Design Manual Turning Lane Criteria.	Proponent to provide response	Project commitments regarding traffic counts and assessment ahead of construction are included within the draft EIS. Further clarification is provided in the additional information to the draft EIS.	Volume 1, Chapter 16 Transport, Section 16.4 Volume 1, Chapter 23 Environmental management plan, Section 23.4.9	Chapter 13 Project commitments Appendix D Revised Project commitments
019.02		Transport - traffic	The Traffic Impact Assessment (TIA) identified that a channelized right turn treatment with a short turn slot (CHR(S)) treatment will be required to caler for the movement of construction traffic for the Capricon Highway for the Third Street intersection. Due to the proximity of this intersection to the Gogango Creek Bridge, appropriate assessment and mitigation measures are required	Consideration must be given to the close proximity to the Gogango Creek Bridge to the potential CHR(S) upgrade on the Capricorn Highway. Due to the close proximity to the Gogango Creek Bridge. The proposed intersection upgrade configuration may not fit unless the bridge is widdened, or the intersection is relocated further west. In the Additional Information to the ES provide unther details regarding the proposed intersection upgrade. This information is required to ensure safety, condition, capacity and efficiency of the road network is immaintained a texting, adequate levels, in accordance with the provisions of the Transport Infrastructure Act 1994.	Proponent to provide response	Intersection treatments are addressed in the drat EIS. Further clarification regarding intersection treatments are provided in the additional information to the draft EIS.	Volume 1, Chapter 16 Transport, Section 16.3.4.3	Chapter 10 Transport, Section 10.1.1 Chapter 13 Project commitments Appendix D Revised Project commitments
019.03		Transport - traffic	16.3.4.3 Weir Construction road and traffic impact assessment. The EIS does not provide much information regarding the timing of upgrades to intersections and bridges	In the Additional Information to the EIS provide information regarding the timing of the intersection upgrades at the Capricorn Highway/Third Street and Bruce Highway/Akinson Road. These intersection upgrades are required to be undertaken prior to the start of significant project construction.	Proponent to provide response	Clarification with regard to the construction schedule is provided in the additional information to the draft EIS with reference to intersection, road and bridge upgrades.	n/a	Chapter 10 Transport, Section 10.1.2
019.04		Transport - roads and flooding	Further information and assessment is required for the Foleyvale Bridge deck height and its flood immunity.	In the Additional Information to the EIS further information and actions regarding the Foleyvale Bridge is required, including: 1) What the flood immunity and AATOC and TOC (in large flood) was for the previous TMR work/concept done. 2) Consultation needs to be undertaken with the community north of the Foleyvale Crossing on the Apis Creek Road, as well as the TMR Fitzroy District prior to setting the immunity and bridge deck levels 3) Page 16-25 (table 16-2) states that the AATOC of the proposed new bridge will be reduced, TMR needs to know what the proposed immunity is. 4) Bridge design standard for the bridge needs to cater for volumetrically loaded Type 1 Road Trains as this is a Type 1 Road Train route b) Bridge with needs to take into countify per 1 Road Train usage. b) Bridge with needs to take into count Type 1 Road Train usage.	Proponent to provide response	Assessment with regard to Foleyvale Crossing is included within the draft EIS, inclusive of extensive consultation activities. Clarification with regard to Foleyvale Crossing is provided in the additional information to the draft EIS.	Volume 1, Chapter 16 Transport, Section 16.3.3 Volume 3, Appendix F Consultation report Volume 3, Appendix Q Traffic and transport supporting material	Chapter 2 Consultation, Section 2.2 and Section 2.3.4 Chapter 10 Transport, Section 10.2
020.01	Department of National Parks, Sport and Racing	Land - Inundation footprint	The EIS does not detail their methodology for how they determined the extent of land lost in Aricia State Forest due to inundation. The EIS estimates that approximately 4 and the State forest will be inundated, however mapping at the 20 m contour (based on a maximum FSL of the Eden Bann Weir of 20.2 m) estimates that approximately 7.5 ha of the State forest will be inundated Mapping using a spatial layer provided by the proponent estimates that approximately 6.4 ha of the State forest will be inundated.	NPSR recommends that the EIS provide details of the methodology used to estimate the inundation footprint of the entire project.	Proponent to provide response	Clarification regarding the approach and methodology is provided in the additional information to the draft EIS.	n/a	Chapter 4 Land, Section 4.2.3

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020.02		Land - water storage easements	The EIS states that 'water storage easements' will be negotiated with landholders effected by the weir impoundments, including the inundation of a section of Aricia State Forest by the raising of Eden Bann Weir. A water storage easement is a public utility easement under storage aseament is a public utility easement under storage asea and within or outside the storage are at full support. However a water storage easement cannot be authorised over Aricia State Forest due to \$26(1A) of the Foresty At 1599 (A), which states that land on State forest must be used in accordance with provisions of the FA which do not include easements of any kind. Easements for other public infrastructure can be authorised in State forests through specific sections of other legislation. For example, sections in the Electricity Act 1994 and Petroleum and Gas (Production and Safet) Act opertoleum and gas pipelines to be authorised respectively. No such overriding legislation exists for water storage easements	NPSR requests that the proponent undertake further negotiations with NPSR and the Department of Natural Resources and Mines to determine the most appropriate method of addressing the impacts. Given that the area of Aricia State Forest will be permeannenly inundated by the Eden Bann Impoundment, revocation of the inundated area and a buffer area from the State forest may be required. This will require resurveying of the boundary between the State forest and the wetercourse, and may require compensation to be paid to NPSR for the loss of the area.	Proponent to provide response	Mitigation and management of impacts on the Arioia State Forest and future consultation are addressed in the additional information to the draft EIS.	n'a	Chepter 4 Land, Section 4.2.3 Chapter 13 Project commitments
021.01	Department of the Environment	Environment - Modelling	The OWS would expect a more comprehensive modelling report than what was presented. Please provide details of the data used, rules, assumptions, scenarios run, calibration results and sensitivity and uncertainty analysis.	Appendix V outlines sensitivities and changes (and implications) to the QLD government calibrated IQQM model. While calibration report is not provided, OWS considers that the QLD government model used is likely the best currently available model for predicting impacts.	Proponent to provide response	Subsequent updates received from DoE indicate that information as provided in the draft EIS is adequate to address this query and no further additional information is required.	Volume 3, Appendix V IQQM yield assessment (confidential).	nia
021.02		Environment - Modelling	For all modelling investigations a comparison to the pre-development scenario (i.e. the current state of the environment) should be undertaken to consider currulative impacts. Additionally, separating the existing scenario into two scenarios (one with the proposed ana, and one without) would help assess the impact of the proposed project alone.		Proponent to provide response	Pre-development flow assessments have been included in the additional information to the draft EIS, including presentation of flow duration curves.	n/a	Chapter 7 Surface water resources, Section 7.4.1
021.03		Environment - Modelling	As a whole, the approach did not consider antecedent conditions (either all years are grouped together, or individual years are analysed).	Please provide further assessment of impacts during extended periods of low flow.	Proponent to provide response	Antecedent and low flow periods are assessed and included in the additional information to the draft EIS.	n/a	Chapter 7 Surface water resources, Section 7.4.2
021.04		Environment - Modelling	As these proposed structures are likely to have a relatively long life, scenarios that assess the impacts of changing climatic conditions may be relevant (not all investigations considered future climate scenarios).		Proponent to provide response	Climate change scenarios were assessed in the draft EIS. Further clarification is provided in the additional information to the draft EIS.	Volume 1, Chapter 4 Climate, natural hazards and climate change, Section 4.4	Chapter 7 Surface water resources, Section 7.3
021.05		Environment - Modelling	The draft EIS does not detail how the operation of the existing and proposed development scenarios were taken into consideration by the model (e.g. how have the EFOs been adopted by the model?). It is difficult to determine from the information provided if the modelled system reflects likely future operations and demands.	Please provide documentation to support the future operations and demands modelled.	Proponent to provide response	Weir operations are described in the draft EIS including consideration of EFOs. Further clarification is provided in the additional information to the draft EIS.	Volume 2, Chapter 2 Project description, Section 2.5.2 Volume 3, Appendix V IQQM yield assessment (confidential)	Chapter 7 Surface water resources, Section 7.2.2
021.06		Environment - Modelling	The sensitivity analysis conducted by the proponent on the flow duration curves (p. 4-1, Appendix P2, draft ES) is not presented within the documentation. Given the fevel of inter-annual variation to discharge from the Fitzroy Basin, the OWS considers this information is required to consider the potential impacts of the project. Consideration of a very dry percentile is also waranted.	A sensitivity analysis for the flow duration curves is required. Please also provide flow duration curves for very dry scenario.	Proponent to provide response	Sensitivity analysis data has been included in the additional information to the draft EIS.	n'a	Chapter 7 Surface water resources, Section 7.4.4 Appendix I Sensitivity analysis (wet and dry years) daily flow duration curves
021.07		Environment - Modelling	The OWS notes that the flow duration curves provided appear to be labelled incorrectly. Additionally the curve 'Rookwood Weir Stage 1 – flow duration curse at data location (QuMS (Riversies)) (c. 5. Appendix D, Appendix P, draft EIS) does not appear to reflect the change in hydrology expected for this development scenario. These inconsistencies make it difficult to verify the proponent's interpretation.	Please ensure the labelling of the flow duration curves is correct. Please clarify the change in hydrology expected.	Proponent to provide response	Flow duration curves are reproduced in the additional information to the draft EIS.	n'a	Chapter 7 Surface water resources, Section 7.4.1 Appendix H Daily flow duration curves
021.08		Environment - Modelling	Ch 9, section 9.2.3 states there is a risk if the modelled post construction flows are not as modelled that increased sediment, nutrients and other chemicals from construction of the weirs will make their way into the Fitzroy River estuary and Keppel Bay and potentially impact on the values of the GBRWHA.	Provide an assessment of the risk of flow not occurring as modelled. Provide an assessment of the impact of increased sediment, nutrients and other chemicals on GBRWHA.	Proponent to provide response	The draft EIS provides the approach and methodology utilised to determine modelled flows, specifically IQQM as developed in consultation with State agencies. Further clarification is provided in the additional information to the draft EIS.	Volume 3, Appendix V IQQM yield assessment (confidential)	Chapter 7 Surface water resources, Section 7.4.1

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021.09	Environment - Surface water - environmental flow calculations	The WRP describes EFOs for the Fitzroy Basin. For the Basin as a whole these include objectives for seasonal base flows, medium to high flows, and first post-winter flow events. EFOs for node 0 include measures for seasonal base flow, medium to high flow, and first post-winter flow. While node 1 (located downstream of Eden Bann Weir), is described in the WRP, no EFOs are prescribed. The exception of the 20 year daily flow that; if the yield is capped at 76,000 MLa this measure is met). EFOs for seasonal base flows, find high flows (with the exception of the 20 year daily flow trait; if the yield is capped at 76,000 MLa this measure is met). EFOs for seasonal base flows in why to August and September to December seasons will not be met under any proposed development scenario. For some of the proposed development scenarios this to nowres than the extifting scenario (noting the existing scenario licitates how the system is operated, and hence if and how EFOs are Mihe the VRP includes EFOs, the Fitzroy Basin Resource Operation Plan (ROP) dictates how the system is operated, and hence if and how EFOs are prepresed are unlikely to address all opential flow-related impacts associated with the proposed project.	Please provide EFOs for node 1.	Proponent to provide response	Water resource planning and compliance is addressed in the draft EIS. Further clarification is provided in the additional information to the draft EIS.	Volume 2, Chapter 8 General impacts, Section 8 2.2 Volume 3, Appendix P Surface water supporting information Volume 3, Appendix V IQQM yield assessment (confidential)	Chapter 7 Surface water resources, Section 7.2.2
021.10	Environment - Impacts on Great Barrier Reef	The draft EIS has provided a number of mitigation measures to reduce the likely significant impact on the World Heritage and National Heritage values of the Great Barrier Reef. The outstanding concern relates to if potential predicted flows post-construction of the Eden Bann and Rookwood Weis are greater than actual flows and the associated impact on water quality including uniterins and sections that may entri into the Filzory Estuary downstream of the project. The proponent needs to ensure current short term increases in total nitrogen does not adversely impact on the water quality targets identified in the Reef 2050 Long-Term Sustainability Plan to reduce nutrient loads into priority areas of the GBWHA. The Reef Plan 2050 changes is fank in acknowledging the pressures and forthright in setting out the actions judged necessary to maintain and enhance the Outstanding Universal Value of the Great Barrier Reef World Heritage Area. The commitment is absolute. One of the critical pressures identified in the Great Barrier Reef Outlook Report 2014 and recognised in the Reef Plan artificial barriers to flow. Changes to coastal habitats and artificial	Discuss the impact of short term increases in total nitrogen (and other impacts) will have on meetin the water quality targets identified in the Reef 2050 Long-Term Sustainability Plan.	g Proponent to provide response	Assessment of the Project against the water quality targets of the Reef Plan 2050 is included in the additional information to the draft EIS.	n/a	Chapter 8 Water quality, Section 8.2
021.11	Environment - Facilitated impacts to Great Barrier Reef	There is no assessment of facilitated impacts result from the proposed action. Please provide a discussion of the facilitated impacts associated with this proposed development (e.g. agriculture, mining).		Proponent to provide response	Facilitated development is addressed in the draft EIS. Further assessment regarding the potential use of 42,000 MU/La high priority water for agricultural purposes is included within the additional information to the draft EIS.	Volume 2, Chapter 12 Cumulative and consequential, Section 12.4	Chapter 8 Water quality. Section 8.2.3 Chapter 11 Consequential impacts
021.12	Environment - Impacts on Great Barrier Reef	Chapter 9, section 9.2.2.1 - If flows are greater than predicted modelling (e.g. high rainfall events) there is the potential for greater freshwater flows carrying increased sediment loads into the GBRWHA. This may have an impact on the Reef 2050 Long-Term Sustainability Plan's target of at least a 20 per cent reduction in anthropogenic end-of-cathment loads of sediment in priority areas on the way to achieving up to a 50 per cent reduction by 2025. The Fitzroy Basin is considered as a priority area for sediment nun-off.	Please provide an assessment of the impact of increased sediment loads will have on meeting the water quality targets identified in the Reef 2050 Long-Term Sustainability Plan.	Proponent to provide response	Assessment of potential Project impacts against Reef 2050 water quality targets is provided in the additional information to the draft EIS.	n/a	Chapter 8 Water quality, Section 8.2.3
021.13	Environment - Impacts on Great Barrier Reef	The OWS considers the influence of the proposed project on the amount and siming of water entering the Fitzroy estuary (and further downstream) will be more apparent during low flow years, as flows that would otherwise fill and spill he existing storages are retained within the increased storage capacity. Accordingly (significant) changes are more likely to manifest during low flow periods. The analysis presented by the proponent does not adequately identify impacts that may occur under these conditions	An analysis of the impacts associated with low flow years is required.	Proponent to provide response	Analysis of Project impacts on flow regimes is addressed in the draft EIS. Further analysis of impacts associated with low flow years is provided in the additional information to the draft EIS.	Volume 1, Chapter 9 Surface water resources, Section 9.3.2 Volume 2, Chapter 8 General Impacts, Section 8.2 Volume 3, Appendix P, Surface water supporting information	Chapter 7 Flow regime and analysis, Section 7.4.2

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021.14		Environment - Impacts on Great Barrier Reef	The OWS considers that while change in total annual flow volumes is likely to be negligible in high flow years, there may be a significant percentage reduction in total and moneshify flow in low flow years and drought periods without major flow events, due to capture of low to medium flows in dry years. The statistical analysis undertaken highlighted the likelihood for changes to flow to occur in low flow years. This analysis considered impacts on a monthly scale, which may overlook impacts that occur on a daily basis. Additionally, the investigations din oct consider entecedent conditions (e.e. impacts of consecutive or multiple low flow years/droughts). Periods of not dow are of relevance to estuarine ecology and hydrodynamics. EFOs do not address no-flow measures, nor has this been assessed separately (and comprehensively) by the proponent. Suitable no-flow indicators are suggested by WAP (2010) (page 138).	Please provide further assessments of measures associated with no flow, and antecedent conditions.	Proponent to provide response	Analysis of Project impacts on flow regimes is addressed in the draft EIS. Further analysis of impacts associated with low flows and antecedent conditions is provided in the additional information to the draft EIS.	Volume 1, Chapter 9 Surface water resources, Section 9.3.2 Volume 2, Chapter 8 General Impacts, Section 8.2 Volume 3, Appendix P, Surface water supporting information	Chapter 7 Flow regime and analysis, Section 7.4.2	
021.15		Offsets - Nitrogen release	According to Chapter 8 (Table 8-2 and Figure 8-6), Total Nitrogen (TN) being leasased from the combined Gete Man and Rockwood Weirs is modelled to be elevated in the first 6 years of operation due to inundation of vegetation. Elevated TN in the first year - 8.5% (or approximately 1100 brnnes/year), dropping to less than 1% in years 5 of C/3 tonnes/year). The Total Nitrogen over the 6 year period is estimated to be in the order of 842 tonnes for the Eche Bann Weir and 1200 branes for the Rockwood Weir. The proponent has stated this is unlikely to have a significant impact on the GRRWHA in the context of the overall quantifies that are transported annually from the Fitzroy Basin to the GBRWHA (as described by Johnston et al. 2008) and the staged approach of the construction of the weirs. Any increase of TN may impact on the ability to achieve the Reef 2050 Long- Term Sustainability Plan's weter quality target that by 2018: at least a 50 per leads in the priority areas on the way to achieving up to an 80 per cent reduction in 2025.	Will an offset be provided to counter this additional short term increase in total nitrogen entering the GBRWHA?	Proponent to provide response	The Fitzroy Basin catchment is not a priority area for nitrogen management as defined in the Reef Water Quality Protection Plan 2013. Assessment of the Project against the water quality targets of the Reef Plan 2050 is included in the additional information to the draft EIS.	n/a	Chapter 8 Water quality, Section 8.2	
021.16		Terrestrial Fauna - Yellow Chat	The proponent has not specifically addressed how releases from the Barrage will affect inundation of wetland habitat of the yellow chat.	Provide a discussion of the impacts of wetland inundation on the yellow chat.	Proponent to provide response	Potential Project impacts on yellow Chat are addressed in the draft EIS. Further clarification is provided in the additional information to the draft EIS.	Volume 2, Chapter 10 Threatened species and ecological communities, Section 10.6.2.2	Chapter 6 Terrestrial fauna, Section 6.3	
021.17		Terrestrial Fauna - Yellow Chat	We note Houston et al. (2009) described an additional yellow chat location (resigniting at a historical record) (refer to Attachment A) that is not considered by the proponent. This site is located doser to the main channel of the Fitzroy River than the existing sites and therefore may be influenced by Barage outflows. It is unclear if the proponent assumption that Chat habitat in the Fitzroy delta is influenced by local rainfall patterns, rather than flow in the Fitzroy River, would apply to this site.	Provide a discussion of the impacts on the new yellow chat site.	Proponent to provide response	Potential Project impacts on yellow Chat are addressed in the draft EIS. Further clarification is provided in the additional information to the draft EIS including consideration of the additional siting.	Volume 2, Chapter 10 Threatened species and ecological communities, Section 10.6.2.2	Chapter 6 Terrestrial fauna, Section 6.3	
021.18		Fitzroy River Turtle	Given the current (poor) status of the Fitzroy River turtle and the likelihood for ongoing impacts to the population as a result of the proposed project, the OWS views that further consideration should be given, and commitments made, to ensure the proposed project not only minimises but improves the outlook for this species.	: Limpus et al. (2011) provide a series of recommendations in relation to likely impacts associated with the proposed project, the OWS suggests this is considered when reviewing avoidance, mitigation and offsetting measures proposed by the proponent.	Proponent to provide response	Recommendations have been considered in the development of the species management plan as included within the draft EIS and revised for the additional information to the draft EIS.	Volume 3, Appendix M Fitzroy River turtle (Rheodytes leukops) species management program	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.1 Appendix E Fitzroy River turtle and white-throated snapping turtle species management program	

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021.19		Fitzroy River Turtle	The information presented in the draft EIS indicated a general increase in low flows downstream of the structures during the dry season, which may be of benefit to the Fitzory River turtle. However, the OWS considered the analysis undertaken may overlook impacts to the turtle during dire periods. During extended periods of low flow or drought the weir pools are likely to be low, and may capture any small-medium inflows that would otherwise replenish refuge or supply rifle habitat. In these periods cumulative stresses on the species may become detimental to the population (Limous et al., 2011). Due to the importance of refuge and rifle habitat, the OWS views that impacts to no-flow conditions (e.g. length and frequency of extended no flow periods), antecedent conditions and flow variability should be considered in the proponent's assessment.	Please include a discussion of the impacts of no-flow conditions on the Fitzroy River Turtle.	Proponent to provide response	Addressed in the additional information to the draft EIS	n/a	Chapter 7 Surface water resources, Section 7.4.2 and Section 7.4.3	
021.20		Filzroy River Turtle	The Fitzoy River turtle nests in alluvial sand-loam banks deposited by floods (eggs are laid in the late dry season). While floods that result in creation of sand banks are unlikely to be impacted by the proposed project, small to medium flows are likely to be impacted and these flows are considered to play a role in maintaining suitable nesting habitat (i.e. clearing and souphing sand banks) (pr 23, Impacet al., 2011). Additionally, the proposed development will likely result in higher regulated flows downstream of the weirs. Depending on the downstream demand, operation of the structure could increase the risk of nest inundation (Appendix M, draft EIS). The proponent notes activities in other catchments MicDougall et al., 2015) to manage storage levels to reduce the likelihood of nest inundation (p. 46, Appendix L, draft EIS). The proponent considers this is not viable for Rookwood (which is reasonable), however also states this is not viable for Eden Bann Weir. The OWS considers this option should be considered more comprehensively.	Please provide a detailed discussion of how operation of the structures will minimise nest inundation downstream and upstream of the structures.	Proponent to provide response	Addressed in the additional information to the EIS. Consideration flows relative to nesting periods are discussed.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.3	
021.21		Fitzroy River Turtle	Eden Bann Weir already exists and will be increased (from 14.5 m to 20.2 m AHD) as part of the proposed development, while Rookwood Weir is a new structure within the system. The OWS considers the presence of an additional wir within the system could likely increase the likelihood of FR turbles overtopping dams and veirs. Additionally, increasing the height of the Eden Bann Weir may storucture well as the optended may influence the likelihood of , the veira are operated may influence the likelihood). The OWS considered may influence the likelihood). The OWS expects outputs from the IQOM modelling could be analysed to estimate the change in number and duration of overtopping based on the indefined provided (how the veiras are operated may influence the structure within the system. The OWS considers the presence divergence of an additionally increase the likelihood of FR turbs overtopping dams and veirs. Additionally, increasing the leight of the Eden Bann Weir already exists and will be increased (from 14.5 m to 20.2 m AHD) as part of the proposed development, while Rookwood Weir is a new structure within the system. The OWS considers the presence diverging dams and veirs. Additionally, increasing the leight of the Eden Bann Weir as in operation of system could likelihood fr Ruths and increase to investion of FR turbs overtopping dams and veirs. Additionally is an experiment and the defined of a day in the information provided (how the weirs are operated may influence the likelihood. The OWS expects outputs from the IQDM modelling could be analysed to estimate the change in number and duration of overtopping events (based on the indoredled system).	Please provide an analysis of IQQM modelling to estimate the change in number and duration of overtopping events.	Proponent to provide response	Addressed in the additional information to the EIS including design features to and mitigate injury and motality.	nia	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.3 Appendix E Fitzroy River turtle and white-throated snapping turtle species management program	
021.22		Fitzroy River Turtle	The OWS notes the structures also present a barrier for movement, will further fagment populations and flowing habitat and may increase risk of injury or death as turtles attempt to climb the structures. Measures to minimise injury have been proposed by the proponent (the adequacy of these has not been assessed by the OWS).Turtle passages are proposed.	Please provide evidence supporting the effectiveness of these structures.	Proponent to provide response	Addressed in the draft EIS and further clarified in the additional information to the EIS including design features to and mitigate injury and mortality.	Volume 3, Appendix L Fitzroy River turtle (Rheodytes leukops) technical report Appendix M Fitzroy River turtle (Rheodytes leukops) species management program	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.1 Appendix E Fitzroy River turtle and white-throated snapping turtle species management program	

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021.23		Fitzroy River Turtle	As the weirs will provide for the regulation of downstream flows, the OWS considers this offers an opportunity to manage releases to maximise benefit to luttle (reglenish refuge pools, provide flows to improve turtle condition leading up to the nesting asseon), and in a system that is already highly modified, this type of management may be necessary. Please refer to Limpus et al. (2011) page 25 for guidance. Ensuring these outcomes would require changes to the ROP. Currently the operating rules to Eden Bann Weir are driven by inflows to the weir, however releases are only made if there sufficient supply in the pool. Maintaining (or even improving) turtle habitat may require that releases are made in the absence of these inflow or supply level triggers.		Proponent to provide response	Addressed in the additional information to the EIS.	nia	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.3 Chapter 7 Surface water resources, Section 7.4.2 and Section 7.4.3	
021.24		Fitzroy River Turtle	The impacts on potential changes to flora and macroinvertebrate populations in the stretches of river to be flooded and impacts these could have on the flood weeks for the Fitzery River turtle and other listed species should be addressed. The contribution the increase in water availability/security from the proposed action could have an increase in residential, industrial and agricultural development across the region and the impacts they could facilitate on the GRRWHA, GBRNP and the Shoalwater and Corio Bays Ramsar Site should also be included in the EIS.	These issues should be addressed in discussion of cumulative and consequential impacts.	Proponent to provide response	Addressed in the draft EIS. Further assessment provided in the additional information to the draft EIS with regard to facilitated agriculture.	Volume 2, Chapter 12 Cumulative and consequential, Section 12.3 and Section 12.4	Chapter 11 Consequential impacts	
021.25		Offsets - Fitzroy River Turtle	Offsets appear to be only associated with inundation area, and are proposed for 5 years which seems inconsistent with the duration of impact.		Proponent to provide response	Clarification is provided in the additional information to the draft EIS.	n'a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.2 Appendix G Offset proposal for the Fitzroy River turtle and white-throated snapping turtle	
021.26		Offsets - Fitzroy River Turtle	Cumulative impacts to the turtle population are a concern. 'Boardman (1996), when considering the impact of the construction of the Ned Churchward Weir in the Bumett River, identified that while an individual dam or weir may not be a threat to the survival of fung fish or the turtle, E. Babagula, cumulative impacts of multiple dams and weirs within a niver system may be detrimental? (jourded from Lingues et al. 2011). Chiven the status of the species consideration of a more holistic, catchment wide approach is warranted, as proposed by Limpus et al. (2011). The proponent owns and operates a number of additional storages in the basin which should assist a more collaborative and Basin-wide approach.	Please include discussion of these issues in the turtle management plan and offset management plan.	Proponent to provide response	Offsets as considered applicable are proposed and included in the additional information to the draft EIS.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section Sappendix G Offset proposal for the Fitzroy River turtle and white-throated snapping turtle	
021.27		General - Corrections	Executive summary pE-33 Para 3, line 6 and Chapter 12, pages 12-23, 12-33 - EIS has referred to the Reef 2050 Long Term Development Plan.	Correct title is the Reef 2050 Long-Term Sustainability Plan.	Proponent to amend	Noted and corrected within the additional information to the draft EIS as relevant.	n/a	n/a	
021.28		General - Corrections	Chapter 12, pages 12-24 - EIS has referred to the Department of Agriculture Forestry and Fisheries.	Update to refer to the Department of Agriculture.	Proponent to amend	Noted and corrected within the additional information to the draft EIS as relevant.	n/a	n/a	
022.01	Private submitter 7	Transport	My concerns with the project is access, with the possibility of Glenroy crossing being flooded and not crossable, also a private crossing at Craiglea which is used regularly being flooded and not crossable. This would add considerable cost to my grazing business as it would mean approximately another 100 km to the road distance to Rockhampton.	The solution to this problem would be the installation of a high level bridge at Gienroy crossing.	Proponent to provide response	Impacts on the road network are addressed in the draft EIS. An upgrade is proposed with regard to Glenroy Crossing.	Volume 1, Chapter 16 Transport Volume 3, Appendix W Project commitments	Chapter 4 Land, Section 4.2.1 and 4.2.2 Chapter 13 Project commitments Appendix D Revised Project commitments	

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023.0	1 Privat	ite submitter 8	Flooding	have serious concerns with localised flooding in the junction of Gogango Creek and the Fitzroy River!! In 2004, Gogango back flooded the Fitzroy from 0 m to 19 m in just 12 hours! Even if you could release the wet to 15 m in that time which I believe is impossible there will be mass flooding!! Even local storms will flood Gogango creek crossing on thirsty creek road!! Have taking this in account, this crossing will need to be raised bank to bank!! Your flood heights haven't taken in these events so I will be demanding compensation for this!	Unless the farmers can buy water at a cheap rate than this project is a while elephant! Gladstone lies on the big blue dam make them pump out of if! Also have you allowed to fence off the flooded areas of all effect land owners to stop cattle getting bogged when you release water? Leave my backyard alone!	Proponent to provide response	Land use and potential Project impacts on the use of rural land for rural purposes was addressed in the draft EIS, including proposals to enter into negotiations with impacted landholders with regard to specific impacts on their individual properties. Upgrades and sugmentation of Thirsty Creak Read have been considered. Further investigations will be undertaken during detailed design. Further updates are provided in the additional information to the draft EIS.	Volume 1 Chapter 5 Land, Section 5.5.3.2 Volume 1 Chapter 16 Transport Volume 1 Chapter 18 Social impact assessment	Chapter 4 Land, Section 4.2.2 Chapter 13 Project commitments Appendix D Revised Project commitments	
024.0	1 Austra Count	ralian Heritage Icil	Environment - GBR	The Fitzroy River Infrastructure project is within the catchment of the Great Barrier Reef and, in our view, poses significant, measureable risks to the reef and to local flora and fauna, risks that are identified in the Environmental limpacd Statement. In particular, we are concerned at the extent of inundation required by the project. There are indications that such inundation would seriously reduce natural flows and habitats and likely result in poorer quality water being discharged into the southern Great Barrier Reef. The state of the Fitzroy River system (as part of the largest river system feeding into the Great Barrier Reef is a laready rated only fair, this proposal will put further pressure on the system with consequent erosion of the state of the already fragile southern GBR. These are precisely the cumulative impacts identified by UNESCO as posing a threat to the World Heritage values of the reef.	Although the proponents do propose to compensate for the loss of flora values through offsets and to use mitigation measures in particular to offset the impacts on aquatic fauna, the Australian Hentrage Council continues to have grave concerns about the serious decline in the condition of the Great Barrier Reef. As we indicated in our submission to the Great Barrier Reef Strategic Assessment, we believe it is critical that the cumulative impacts of any proposed projects on the heritage values of the reef must also be routinely considered.	Proponent to provide response	Noted. Environmental management measures are included in the draft EIS and additional information to the draft EIS. Assessment of potential project impacts on water quality against the Reef 2050 Plan is included in the additional information to the draft EIS.	Volume 1, Chapter 23 Environmental management plan	Chapter 8 Water quality, Section 8.2 Chapter 12 Environmental management plan Appendix F Revised draft environmental management plan	
025.0	1 Public Agenc	ic Safety Business Icy	Hazard and Risk Bushfire Mitigation	Draft guidance material for bushfire hazard has been developed in support of the State Planning Policy in the form of a draft model code (attached). The draft model code has been developed to meet QFES operational needs and adopt key recommendations for bushfire mitigation. The code is currently in consultation with peak bodies and key industry groups. In support of this process, please consider relevant sections of the draft model code as a guide to address SPP requirements for bushfire hazard. Applicable performance and acceptable outcomes within the model code are numbered 1-3, 10-15. The State Planning Policy (SPP) interactive mapping system indicates a very high, high, and medium polential bushfire area including potential impact buffer affecting the sites as shown on the attached mapping gides and a http://www.statedervelopment.pdf gov au/about.planning/spp-mapping-online- system.html. This means the SPP applies to the site and relevant provisions within the draft model code given above provide a pathway to address the requirements of the SPP.	The draft EIS acknowledges the site is affected by bushfire hazard areas as part of the State Planning Policy mapping, PSBA supports the mitigation and emergency response measures during the construction phase as detailed in section 20.3.5.4.1 Infrastructure vulnerable bushfire hazard during the construction phase include storage and office areas, amenities, power generation, and use and chemical stores. During the operational phase the draft EIS states that the project is not expected to exacethate bushfire hazard to the community or the environment. It is advised that to inform mitigation measures for the construction and operational phases a bushfire site assessment should be conducted to determine the level of Dushfire affecting the site and this in turn will guide adherence requirements against the draft model code.	Proponent to provide response	Bushfire risk is addressed in the draft EIS and management measures are clarified in the additional information to the draft EIS.	Volume 1, Chapter 20 Hazard and risk, Section 20.2.5.2, Section 20.3.5.4, Section 20.4.4 Volume 1, Chapter 23 Environmental management plan	Chapter 12 Environmental management plan Appendix F Revised draft environmental management plan	
025.0	Quee Emerg 2 (QFE Safet) Branc	ansland Fire & rgency Services S9 - Community ty Ccapability ch	Legislation	The QFES is aware of the regulatory requirements outlined for planning and development approvals. The QFES has a responsibility to ensure a balance between the reduction of risk and enhancement of community resilience, whilst providing effective response and recovery capabilities. The QFES understands the objective of this document and QFES acknowledges or role in the consultation process. The QFES remains aware that QFES may provide the proponent with advice relevant to our jurisdiction and function. The document provided is a proposal only and is light on specific detail in particular the proposal mentions the construction of building structures. As stated the QFES is an advice agency under the Sustainable Planning Act (SPA) and will need to be involved in the construction as required by legislation.	The QFES also expects the proponent will comply where necessary with all relevant Queensland statutory legislation and will implement safety and health management systems to mitigate hazard and risk. Including but not limited to: Hazard analysis and risk assessment undertaken in accordance with ASNZS ISO 31000-2009 Risk Management – Principles and guidelines; and with HB203.2006 Environmental Risk Management Principles and Processes. Implementation or emergency response plans detailing mitigation strategies to achieve specific outcomes as outlined in the State Planning Policy. July 2014 specifically the Natural Hazards; risk & relisitence section and maintian adequates separation of vegetation from exposures to prevent wildfire events threatening infrastructure in isolated areas; - All dargerous goods, explosives and hazardous substances transported, stored and managed in accordance with relevant legislation; service provides and provide an adequate level of training to staff who will be tasked with emergency management advities; - Compliance where necessary with the Queensland Fire and Emergency Services Act 1990. Otherwise having reviewed the document the QFES is satisfied with the content and provisions contained within.	Proponent to provide response	Hazards and risks are addressed in the draft EIS and management measures are clarified in the additional information to the draft EIS.	Volume 1, Chapter 20 Hazard and risk Volume 1, Chapter 23 Environmental management plan	Chapter 12 Environmental management plan Appendix F Revised draft environmental management plan	

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025.03	QFES	Traffic management	S20.7.4 - The small increase in light and heavy vehicle movements along the major road networks will not impact on QFES response capabilities.	No comment	Proponent to note	Noted.	n/a	n/a
025.04		External emergency services	OFES note in this part that there will be desktop and practical exercises to be conducted. QFES accept to be an external emergency provider involved in these scenarios. QFES accept the Operation Phase Hazard and Risk Assessment.	No comment	Proponent to note	Noted.	n/a	n'a
026.01	Private submitter 9	Land - access	In the 1950s a crossing over the Fitzroy River called Craiglee Crossing was created.	There is no mention of Craiglee Crossing in the EIS. I believe the authors of the EIS are not aware of the existence of the Craiglee Crossing and the importance of the crossing and the running of the Craiglee aggregation. I believe this is a major deficiency in the preparation of the EIS and its conclusions, particularly its assessment of the impact of the raising of the EBW.	Proponent to provide response	Land use and potential Project impacts on the use of rural land for rural purposes was addressed in the draft EIS, including proposal to enter into negotiations with impacted landholders with regard to specific impacts on their individual properties. Further updates are provided in the additional information to the draft EIS.	Volume 1 Chapter 5 Land, Section 5.5.3.2 Volume 1 Chapter 18	Chapter 4 Land, Section 4.2.2 Chapter 13 Project commitments Appendix D Revised Project commitments
026.02		Inundation and flooding impacts	In the event that Eden Bann raising stage 2 or stage 3 is constructed, I have assessed that I will be unable to use Craiglee Crossing.	Solution as follows: 1. Raise the level of the Crossing so that after construction of stage 3 of the EBW raising, the dexing of the Craigine Crossing will be above Full Supply Level. 2. Purchase of an additional grader for construction and maintaining frebreaks. 3. Purchase of a dog trailer or hiring trucks to cart livestock 4. The movement of livestock and vehicles will be required to travel along public roads and will take considerable more time resulting in increased management costs, both in terms of purchase and maintenance of motor vehicles and trucks and the amount of time taken in travelling an additional distance. 5. There is presently no provision for the storage of fodder lick malasses. It will be necessary to construct adequate storage facilities for the storage of fodder lick and malasses and power to be installed.	Proponent to provide response			
027.01	Private submitter 10	Land - access	In the 1950s a crossing over the Fitzroy River called Craiglee Crossing was created.	There is no mention of Craiglee Crossing in the EIS. I believe the authors of the EIS are not aware of the existence of the Craiglee Crossing and the importance of the crossing and the running of the Craiglee aggregation. I believe this is a major deficiency in the preparation of the EIS and its conclusions, particularly its assessment of the import of the raising of the EBW.	Proponent to provide response	Land use and potential Project impacts on the use of rural land for rural purposes was addressed in the draft EIS, including proposals to enter into negotiations with impacted landholders with regard to specific impacts on their individual properties. Further updates are provided in the additional information to the draft EIS.	Volume 1 Chapter 5 Land, Section 5.5.3.2 Volume 1 Chapter 18	Chapter 4 Land, Section 4.2.2 Chapter 13 Project commitments Appendix D Revised Project commitments
027.02		Inundation and flooding impacts	In the event that Eden Bann raising stage 2 or stage 3 is constructed, I have assessed that I will be unable to use Craiglee Crossing.	Solution as follows:- 1. Raise the level of the Crossing so that after construction of stage 3 of the EBW raising, the decking of the Craigible Crossing will be above Full Supply Level. 2. Purchase of an additional grader for construction and maintaining firebreaks. 3. Purchase of a dog trailer or himp trucks to carl tirestock 4. The movement of livestock and vehicles will be required to travel along public roads and will take considerable more time resulting in tircnesade management costs, both in times of purchase and maintenance of motor vehicles and trucks and the amount of time taken in travelling an additional distance. 5. There is presently no provision for the storage of fodder lick molasses. It will be necessary to construct adequate storage for the storage of fodder lick and molasses and power to be installed.	Proponent to provide response			
028.01	Department of Environment and Heritage Protection	Project Description	Section 2.4.3.2 of the EIS states that mobile concrete batching plants may be established at both Eden Bann and Rookwood constructions sites. However, Chapter 3 makes no mention of the code of practice for concrete batching plants.	Chapter 3 should refer to the document 'General environmental duty – Code of Practice for the concrete batching industry' available from the DEHP website. The code provides guidance to operators to help them comply with the Environmental Protection Act 1994 by meeting their general environmental duty.	Proponent to provide response	Clarification included within the additional information to the draft EIS.	n/a	Chapter 12 Environmental management plan Appendix F. Revised draft environmental management plan
028.02		Water Quality and Aquatic Ecology	Incorrect Water Quality Objective used for Iron	Update the water quality guideline used for iron in Table 11-4 to state 350 ug/L	Proponent to amend	Updates provided in the additional information to the draft EIS.	n/a	Chapter 8 Water quality, Section 8.1
028.03		Water Quality and Aquatic Ecology	Inadequate description of data presented for copper	Clarify whether data for copper in Tables 11-6, 11-8 and 11-10 is representative of the dissolved or total fraction	Proponent to provide response	Updates provided in the additional information to the draft EIS.	n/a	Chapter 8 Water quality, Section 8.1
028.04		Water Quality and Aquatic Ecology	Requirement to consider all relevant metals and metalloids in the assessment. Section 11.1.4.4 provided data describing baseline concentrations for a limited suite of metals incuding AJ, Cur, Fe, Mn, and Zn. The ElS should include data for all relevant metals and metalloids, such as Se, Hg, As, Cr, Cd, Co, Ni, Pb and B.	Provide data for all relevant metals and metalloids, including Se, Hg, As, Cr, Cd, Co, Ni, Pb and B.	Proponent to provide response	Updates provided in the additional information to the draft EIS.	n/a	Chapter 8 Water quality, Section 8.1

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028.05		Water Quality and Aquatic Ecology	Failure to meet seasonal Environmental Flow Objectives and lack of operational rules. The project will affect the flow regime in a number of ways: •reduction in the frequency and magnitude of small to medium downstream flood flows •reduction in the frequency and magnitude of small to medium downstream flood flows •increase water flows downstream during the dry season •decreased frequency and duration of no flow periods. The project will result in a range of ecological impacts as a result of these changes. The project will result in a range of ecological impacts as a result of these changes. The FIS relies on achieving the Fitzroy Basin Water Resource Plan (WRP) environmental flow objectives (EFOs) to manage flow related risks to aquatic ecosystems. Section 7.3.7.2 of the EIS states that 'Achievement of the WRP objectives regarding environmental flows is expected to effectively mitigate ongesen to abnew VRP objectives will not be met etilters. However, section 3.2.5 of the EIS states that the existing non-mandatory Fitzroy Basin WRP seasonal base flow objectives would not be met etilter between Myro August and September to December (representing up to 66 % of the year). This suggests the proposed mitigation measure to achiev WRP objectives will not be met etilter in the base case or development scenario. If EFOs cannot be met, the EIS should review their suitability and identify appropriate management rules that can effectively mitigate the measure of the support.	Describe the operational rules controlling the volume and timing of water releases that will be used to mitgate or prevent impacts to ecological assets.	Proponent tr provide response	Updates provided in the additional information to the draft EIS.	n/a	Chapter 7 Surface water resources, Section 7.2.2 Chapter 13 Project commitments Appendix D Revised Project commitments
028.06		Surface water resources	Section 9.3.2.5 of the EIS states that "Discussion with DNRM and DSITM assets. The EIS does not appear to take such helps, so it is not possible to assess the proposed approaches to mitigate impacts on ecological assets. Section 9.3.2.5 of the EIS states that "Discussions with DNRM and DSITM indicate that while the Project does not achieve the guideline objectives, they are considered appropriate as they do not adversely impact on the existing situation and are consistent with the non-mandatory nature of the specific EFo's. The Water Assessment and Systems team were not involved in discussions and therefore cannot verify this statement.	Clarify what values this statement is referring to, particularly those relating to DSITI involvement, and identify (confidentially, if necessary) who was involved in the discussions.	Proponent to provide response	Updates provided in the additional information to the draft EIS.	n/a	Chapter 7 Surface water resources, Section 7.3
028.07		Air Quality	Table 12-1 of the EIS, Project air quality objectives, shows the dust deposition reporting period as 'Annual average'. This would be correct if applied in NSW. However, in Queensland the correct reporting period is the monthly average.	Revise Table 12-1 to include the dust deposition limit from Page 13 of EHP's Guideline EM960	Proponent to provide response	Updates provided in the additional information to the draft EIS.	n/a	Chapter 12 Environmental management plan Appendix F Revised draft environmental management plan
028.08		Terrestrial Fauna	The EIS has not adequately addressed advice previously provided by EHP that the EIS should address offsets for impacts on the habitat of the endangered red goshawk, Erythrotriorchis radiatus.	Amend Table 8-9 to show a high likelihood of occurrence for the red goshawk	Proponent to amend	Updates provided in the additional information to the draft EIS	n/a	Chapter 6 Terrestrial fauna, Section 6.1

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028.09	Terrestrial Fauna	The EIS concludes that the likelihood of occurrence of the red goshawk in the project area is moderate. However, this conclusion was based on incorrect information.	Amend Section 8.3.5.2 and 8.3.9 to include an assessment of the significance of project impacts on the habitat of the red goshawk.	Proponent to amend and provide response	Updates provided in the additional information to the draft EIS.	nia	Chapter 6 Terrestrial fauna, Section 6.1	
028.10	Terrestrial Fauna	Table 8-9 of the EIS states that the species has not previously been recorded in the region'. Section 6.1.2.1 the EIS states that the search area used for the Wildhet database search was a 2 km buffer along watercourses and about 20 km downstream of the EGen Barn weir. It appears that the absence of records in this limited search buffer was used to draw the conclusion that three are no records in the region and three records that are within 10 km of the confluence of the Dawson and Mackenzie Rivers. These records are sufficiently close to the project area to be significant when considering a raptor species that have large home ranges. The red goshawk is listed as endangered under the NC Act and vulnerable under the EPBC Act EHP previously provided advice to his effect, noting that the species preferentially nets with 1 km of watercourses and particularly favour the tall open Mealaeuca woodland dunid along the parian tinger. In the species preferentially nets with 1 km of watercourses and particularly favour the tall open Mealaeuca woodland. The EIS provides insufficient vedence to justify the statement in Table 8-9 that the red goshawk is unlikely to nest within the project footprint as no nests were recorded during field surveys. Furthermore, Table C.9 that the red goshawk is unlikely to nest within the project footprint as no nests were recorded about the species using the nest. so it is inconclusive whether or not a red goshawk was nesting in the project area.	Given the criteria used in the EIS to assess likelihood of occurrence, the EIS should rate the likelihood of occurrence of the endangered red goshawk as high. Therefore, the EIS should provide an assessment of project impacts on this species using the Queensland Environmental Offsets Policy Significant Residual Impact Guideline and/or the EP8C Act Significant Impact Guidelines. FIP recommends that offsets under the Environmental Offset Act 2014 for project impacts on the habitat of the red goshawk (prescribed matter 6 Protected wildlife habitat) should be required as a condition of approval.	Proponent to note and provide response	Updates provided in the additional information to the draft EIS.	nia	Chapter 6 Terrestrial fauna, Section 6.1	
028.11	Noise and vibration	The noise assessment does not consider section 10 of the Environmental Protection (Noise) Policy 2008, which is a provision directed at controlling background noise creep. Noise creep is an additive effect that occurs when different noise sources occur at the same time.	Provide information on measured background noise levels at the most likely affected premises. Measurements should be made in accordance with the DEHP Noise Measurement Manual (2013).	Proponent to provide response	Updates provided in the additional information to the draft EIS.	n/a	Chapter 9 Noise and vibration	
028.12	Noise and vibration	The noise assessment has not provided any background noise measurements at premises most likely to be affected by construction noise. The only information presented (see Table 14-5, page 14-9) is a generalised estimate of background noise for broad scale land use from a 1997 Australian Standard.	Compare noise predictions with the requirement for controlling background creep in the Environmental Protection (Noise) Policy 2008, and, if necessary, propose mitigation measures that would ensure compliance with the policy.	Proponent to provide response	Updates provided in the additional information to the draft EIS.	n'a	Chapter 9 Noise and vibration	
028.13	Noise and vibration	The EIS proposes that noise from construction of the infrastructure will be regulated by section 440R of the Environmental Protection Act 1994. This is not appropriate as s. 440R applies to the construction and demoliton of buildings such as houses, offices, flats, and commercial premises rather than the construction of dams.	Provide commitments in relation to meeting the acoustic quality objectives of the Environmental Protection (Noise) Policy 2008 (refer to the EIS's Table 14-1) and recommended outdoor planning noise levels (refer to the EIS's Table 14-2).	Proponent to provide response	Updates provided in the additional information to the draft EIS.	n'a	Chapter 9 Noise and vibration	

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028.14		Noise and vibration	As a consequence of this inappropriate application of s. 440R, the EIS does not propose commitments to achieve specific noise limits for construction noise at potentially affected premises. Noise predictions at nearer receptors are in the order of 59 dB(A) for building and 71 dB(A) for piling (refer to EIS Table 14-8 page 14-11). These predictors show noise levels will exceed acoustic quality objectives under the Environmental Protection (Noise) Policy 2008 (refer to EIS Table 14-2) and recommended outdoor planning noise levels (refer to EIS Table 14-2). However, no allowance has been made for penalities (upward adjustment of noise measurement) to account for the tonality or impulse of noise. The latter is relevant for assessing piling noise impacts.	Taking account of measured background noise levels at the most likely affected premises (see above issue 1), propose measures to ensure compliance with the Environmental Protection (Noise) Policy.	Proponent to provide response	Updates provided in the additional information to the draft EIS.	n/a	Chapter 9 Noise and vibration
028.15		Terrestrial ecology and biodiversity offsets	The EIS has not adequately addressed advice previously provided by EHP that the EIS should address offsets for impacts on the powerful owl, Ninox sterna, which is an NCA threatened species. EHP provided advice on this matter in May 2015 and in an earlier submission on the preliminary EIS. In previous advice EHP also noted that habitat for the powerful owl is similar to koals habitat, and that the area of the owl's forsign phabitat tost as a result of the project would be similar to potential koals habitat. Table 8-15 shows the full sector of impacts on koals habitat, the owls for sign phabitat tost as a result of the project would be similar to the provide neasing the project would be similar to potential koals habitat. Table 8-15 shows the full oprovide nesting habitat for the powerful owl, and that would be in excess of 1300 ha. In addition to his, Table 8-14 lists other riperian areas that are likely to provide nesting habitat for the powerful owl, and that would be lost. The EIS states that thabitat loss will be gradual, allowing resident owls to find other places to bead. This is rinelevant in the consideration of offsets. The issue is how much habitat will be lost, not the timescale over which it will be lost. The EIS states that there is an abundance of suitable habitat remaining within the region. However, the riparian habitat the habitat to the project is acknowledged at of the powerful on provide nassessment of the area of potential habitat for the species. The conclusion in section 8.3.9.3 and Table 8-17 that the project will not intefree with the recorey of the species, is not supported by evidence.	The extent of residual impact on foraging, roosting and nesting habitat of the powerful owl should be estimated and mapped, after which a significant impact assessment should be carried out. EHP recommends that offsets under the Environmental Offset Act 2014 for project impacts on the powerful owl (prescribed matter 6 Protected wildlife habitat) should be required as a condition of approval.	Proponent to provide response	Updates provided in the additional information to the draft EIS.	n/a	Chapter 6 Terrestrial fauna, Section 6.2
028.16		Terrestrial fauna	On 27 August 2015, the Governor in Council approved changes to the list of threatened species under the Queensland Nature Conservation (Wildlife) Regulation 2006 (Wildlife Regulation).	The EIS should provide an assessment of project impacts on listed fauna and flora species in the current Wildlife Regulation that were not covered in the draft EIS.	Proponent to provide response	Updates provided in the additional information to the draft EIS.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.1
028.17		Offsets	On 27 August 2015, the Governor in Council approved amendments to the Queensland Nature Conservation (Wildlife) Regulation 2006 to include the white-throated snapping turtle (<i>Essya</i>) altiaguks) in the list of endangered species. Endangered is the most threatened category under Queensland legislation. Management measures and offsets are required that will address impacts on E. albagula. Another species of furtle, the Fitzroy River turtle (<i>Rheodyles Ecklops</i>), is found in the same habitat. These two clocacil breating turtle species are ecologically similar, but have slightly different nesting habitats, and differ in diet and in the timing and duration of their nesting assons. The EIS proposes offsets for project impacts on R. leukops under both the Environment Protection and Biodiversity Conservation Act 1999 and the Queensland Environmental Offset A2 (2014. The threats to R. leukops and E. albegula are essentially the same, hence some actions committed to by the proponent (e.g. Threat abetament work, such as predator control, and turtle movement infastructure) will benefit both species. The EIS notes that some management actions proposed for R. leukops will benefit E. albagula as well.	Offsets under the <i>Environmental Offset Act 2014</i> for project impacts on <i>Elseya albagula</i> (prescribed matter 6 Protected wildlife habitat) should be required as a condition of approval.	Proponent to provide response	Addressed in the additional information to the EIS. Potential impacts, mitgation, management and offsets in relation to white-throated snapping turtle are included.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.2 Appendix C Offset proposal for the Fitzroy River turtle and white-throated snapping turtle

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028.18	Offsets	The EIS outlines project impacts on landscape connectivity and the importance of the corridor role of riparian vegetation. However, the EIS states that corridors of local, regional and state significance, will all prevail directly adjacent to the high water level," and that offsets are not proposed because it is in considered that the prescribed adivities associated with the Project will result in a significant residual impact on connectivity areas. This statement is incorrect, and does not take account of advice previously provided by EHP. Connectivity areas are areas of emmant vegetation outside urban areas containing prescribed regional ecosystems that are required for ecosystem functioning (based on the definition in the Environmental Offsets Regulation 2014). The significance of the vegetation for connectivity must be considered in the context of the local and regional landscape. In previous advice, EHP provided the results of an assessment of connectivity using the Landscape Fragmentation and Connectivity tool for both the Rookwood and Eden Bann development footprints. In both analyses, the inundation as a result of impoundments would result in significant connectivity impacts due to loss of core remnant vegetation areas.	EHP recommends that offsets under the Environmental Offset Act 2014 for project impacts on connectivity (prescribed matter 3 Connectivity areas) should be required as a condition of approval. Impacts on connectivity can be mitigated by protection of non-remnant regional ecosystems within the local landscape that would contribute to connectivity along the Fitzroy River adjacent to the impoundments.	Proponent to provide response	Assessment of Project impacts on connectivity were addressed in the draft EIS. Additional information is provided in the additional information to the draft EIS.	Volume 1, Chapter 8 Terrestrial fauna, Section 8.3.6	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.1.3 Appendix C Connectivity
028.19	Offsets	In contrast to providing offsets for impacts on Fitzroy River turtle nesting habitat by the approach of developing a DBMP and offset delivery plan, section 22.3.2.0 rf he EIS proposes to address impacts on aquatic turtle habitat by providing a financial settlement offset. If is on, the financial settlement offset project impacts on aquatic turtle habitat needs to be finalised prior to issuing the approvals of but it may be included as a condition of approval. The offset calculations should also apply to the white-throated snapping turtle	EHP recommends that the proposed financial settlement offset for project impacts on aquatic turtle habitat must be finalised prior to issuing the approval and included as a condition of project approval.	Proponent to provide response	Addressed in the additional information to the EIS. Potential impacts, mitigation, management and offsets in relation to white-throated snapping turtle are included.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.2 Appendix G Offset proposal for the Fitzroy River turtle and white-throated snapping turtle
028.20	World Heritage Places	The project as described in the EIS will reduce the extent of riparian vegetation in the Fitzory catchment, and therefore will be inconsistent with Queensland and Australian government approved Great Barnier Reef (GBR) sustainability policy. Note: The Office of the Coordinator General requested comments on how the project addressed action EHA10 of the Reef Sustainability Plan. Action EHA10 (2015-2020) is: 'Improve connectivity and resilience through protection, restoration and management of Reef priority coastal ecosystems including islands through innovative and cost-effective measures.' The EIS does not specifically address action EHA10 of the Reef Sustainability Plan. EHP advises that at the time of writing the Office of the Great Barrier Reef has not finalised definitions of priority coastal ecosystems.	The EIS should address project impacts on riparian vegetation in the context of the Reef 2050 Long Term Sustainability Plan and the Reef Water Quality Protection Plan 2013	Proponent to provide response	Assessment of potential project impacts on riparian vegetation against the Reef 2050 Plans EHA10 target is included in the additional information to the draft EIS.	n/a	Chapter 8 Weter quality, Section 8.2.4 Chapter 12 Environmental management plan Appendix F Revised draft environmental management plan
028.21	Cumulative and consequential impacts	The EIS does not adequately assess the potential impacts on the Great Barrier Reef World Heritage Area of more intensive agricultural development. Section 1.4.1 in the EIS states that the project will deliver 42,000 ML of water to any person or entity that makes a submission (the use is unspecified in the Resource Operations Plan). Section 12.4.2.3 states that part of that 42,000 ML agricultural development scenario proposed in the EIS is based on an increase of 2,000 ha to 3,000 ha of irrigated crops. Section 12.4.3 insufficiently discusses the potential impacts of agricultural development (Intensive animal husbandry/irrigated broad-acre cropping and intensive horticulture) on World Heritage Properties. Potential impacts identified include surface water quality and groundwater degradation and vegetation clearing.	The EIS should demonstrate how the likely increase in water use in the catchment, particularly for agriculture, will deliver outcomes for water quality and other matters consistent with the objectives o the Reef Water Quality Protection Plan 2013 and the Reef 2050 Long-Term Sustainability Plan.	Proponent to provide response	Facilitated development is addressed in the draft EIS. Further assessment regarding the potential use of 42,000 MUa high priority water for agricultural purposes is included within the additional information to the draft EIS.	Volume 2, Chapter 12 Cumulative and consequential, Section 12.4	Chapter 8 Water quality. Section 8.2.3 Chapter 11 Consequential impacts

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028.22		MNES Offsets	The impact and offset calculator tables (Tables 14-2, 14-3, 14-7 and 14-8) should stand alone and fully explain column headings (using subscripts if necessary).	Amend Tables 14-2, 14-3, 14-7 and 14-8 to fully explain column headings and cell inputs.	Proponent to Amend	Clarifications are provided in the additional information to the draft EIS.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.2 Appendix G Offset proposal for the Fitzroy River turtle and white-throated snapping turtle
028.23		MNES Offsets	Offsets for project impacts on turtle nesting habitat - Fitzroy River Turtle and White-throated snapping turtle	The proponent should revise the Fitzroy River turtle nest habitat offset management plan proposed under the EPBC Act. The proponent should prepare a Direct Benefit Management Plan and offset delivery plan for the white-throated snapping turtle consistent with the Queensland Environmental Offsets Policy. The documents may be based on the same information and research as noted above for the species management program, particularly in relation to commitments for monitoring and managing nest sites, but should also take account of the different statutory requirements for them.	Proponent to provide response	The offsets proposal as updated in the additional information to the draft EIS is considered adequate for the purposes of decision making. Direct benefit management plan framework is not provided at this time. Potential impects, mitgation, management and offsets in relation to white-throated snapping turtle are included.	n/a	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.2 Appendix 6.0 ffset proposal for the Fitzroy River turtle and white-throated snapping turtle
028.24		MNES Offsets	The area of Brigalow (Acacia harpophylla) Threatened Ecological Community (TEC) that will be inundated by the project has not been verified.	EHP recommends that the offsets for project impacts on Brigatow TEC should be based on a map verified by the Queensland Herbarium. The proponent should undertake adequate field surveys to estimate the area of Brigatow TEC hat will be impacted, and submit a map of that area for verification by the Queensland Herbarium. EHP recommends that an offset management plan for Brigatow, containing detailed commitments and success criteria, should be required as a condition of project approval.	Proponent to provide response	Noted in the additional information to the draft EIS.	n/a	Chapter 13 Project commitments Appendix D Revised project commitments
028.25		MNES Offsets	The proposed offset for black ironbox, Eucalyptus raveretiana, is based on an estimate of residual impact from surveys earried out in 2007. In previous advice, EHP recommended that the estimate of the residual impact on black ironbox should be based on more recent information. Furthermore, the offset proposal uses a one year time horizon to calculate the offset requirement. Previously, EHP advised that the time frame to successfully deliver the offset may be significantly longer than one year, and possibly up to ten years.	The proponent should carry out new surveys, or source more recent survey information, to determine the appropriate residual project impact on black ironbox. The offset for project impacts on black ironbox should have an offset delivery timeframe that is based on successful establishment of planted trees. EHP recommends that an offset management plan for project impacts on black ironbox, containing detailed commitments and success criteria, should be required as a condition of project approval.	Proponent to provide response	Noted in the additional information to the draft EIS.	n/a	Chapter 13 Project commitments Appendix D Revised project commitments

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028.26		Species management program	The species management program required under Section 332 (Tampering with animal breeding places) of the Nature Conservation (Wildlife Management) Regulation 2006 covers the Fitzory Nature Hirle, Rheodytes leukops. However, there is now a requirement for it to address the endangered white-throated snapping turtle, Elseya albagula. Furthermore, the species management program requires more detailed information (constant with the EHP guideline (available by request)), including commitments related to management, research and population monitoring activities prior to approval by EHP.	The species management program must be updated to cover the endangered while-throated snapping turtle, Elseya abagula. The species management program should include objective commitments to management, research and monitoring of Rheodyse lackops and Elseya abagula populations including, but not necessarily limited to, the following matters: recognised management strategies for achieving recovery and maintenance of sustainable populations including, but not necessarily limited to, the following matters: recognised management strategies for achieving recovery and maintenance of sustainable populations in the location and scope of impacts of the project on turtle breeding places research into the use of foraging and nesting habitat within the impoundments, and downstream to the tail-waters of the next impoundment; the research should include: o passive integrated transponder (P1) lagging of turtles prior to completion of construction (as proposed by the drift species management program, Volume 3 Apopendix M) o GPS satilitie telemetry studies to identify habitat use and migration during a range of stream for wents - modelling of the management of moundment levels, and the timing and rates of downstream releases with reference to minimising the drowing of turtle nests during the nesting and habiting periods while achieving water supply and environmental flow objectives dified by the Fitzry Basin Water Resource Plan - developing measurable and auditable actions for managing impoundment levels and the timing and volumes of water releases to minimise for monitoring and manageing nest sits including: - developing colocitive commitments for monitoring and managing nest sits including: - detening objective commitments for monitoring and managing nest sits including: - detening the period or nonitoring and management, e.g. from May to December each year for a minimum number of years (normally equivalent to age at first breeding plus 50% of the adut life expectancy—EHP considers that a minimum period	Proponent to provide response	Recommendations have been considered in the development of the species management plan as included within the draft EIS and revised for the additional information to the draft EIS.	Volume 3, Appendix M Fitzroy River turtle (Rheodyles leukops) species management program	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.1 Chapter 12 Environmental management plan Chapter 13 Project commitments Appendix C Fitzroy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan
			028 26 Continued	o objectives for nesting success, injury and mortality o specific actions for wead management at nest sites o specific actions for managing predation of nests. - details of commitments for monitoring and management of turtle passage in both directions past the impoundment wells, including: o objectives for measuring passage success with respect to turtle injury and mortality o proposed corrective action where objectives are not achieved. - the parties responsible for management actions - approval of programs by EHP before implementation - peer review of research and monitoring programs by external technically skilled experts - reporting and contingency planning, including publishing of monitoring programs and monitoring reports on a website.	Proponent to provide response			
028.27		Turtle passage and design	The design of turtle movement infrastructure for weirs is still experimental. Consequently, the proposed design should be tested and accompanied by turtle movement studies to help to demonstrate whether the structures are effective. A trial will allow for modification of design should they prove ineffective. Table 5.2 provides detail about a specifically designed turtle ramp to be installed at each weir. The table acknowledges that it is at a concept level. A turtle passage trial at Eden Bann Weir, which should be completed prior to raising the weir's level, could be based on the design of the trial started at Tartrus Weir on the McKenzie River several years ago but not completed.	EHP recommends that it should be a condition of project approval that there should be a trial, or trials, of the effectiveness of turtle passage proposals prior to the construction of the weir infrastructure. The effectiveness should be tested in collaboration with EHP's turtle experts.	Proponent to provide response	Noted. Potential impacts, mitigation, management and offsets in relation to the Fitzory River turile and white-throaded snapping further are included in the development of the species management plan as included within the draft EIS and revised for the additional information to the draft EIS.	Volume 3. Appendix M Fitzroy River turtle (Rheodyles leukops) species management program	Chapter 5 Fitzroy River turtle and white-throated snapping turtle, Section 5.1 Chapter 12 Environmental management plan Chapter 13 Project commitments Appendix R Evised project commitments Appendix F Fitzroy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan

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029.01	Capricom Conservation Council	Project rationale	E1.2 GAWB: up to 30,000 ML, Local government authority: up to 4,000 ML intended use of the remaining 42,000 ML; mining development in the Bowen and Surat coal basins; potentially some agricultural development within the Fitzroy Agricultural Cornidor. Only 's of barrage used – what about RRC is currently promoting the need and desire for this development for economic growth in Rockhampton - Agricultura: Fitzroy Industry and Infrastructure Study (DIP 2007) identified that the potential existed for animal production, fodder crops and horitocitive scompiled in 2007 but no turther implementation plans were developed and no demand profiles were confirmed Regional Development Australia's Growing Central: E:4 Draft environmental impact statement June 2015 41/2073644719 Volume 1 Executive summary Queensland it is possible that some future demand for high priority water will arise The current Project concept/preliminary design is modular to facilitate staging - The GFP is designed to transfer 30,000 ML/a (and possibly more if required) from the Fitzroy system - Content Project conceptioned and the possible more if required) - Content Project conceptioned and content is possible that - Some future demand for high priority water will arise The current Project conceptioned and provide and	 No business case for majority of water – especially for agricultural use in The Fitzroy Agricultural Corridor Alternative sources of water not sufficiently considered: e.g., flood harvesting, off-stream storage, water grid interconcivity, water use difficiency, tow water use crops (especially products which require little if any irrigation, fertiliser and pesticides; 	Proponent to provide response	 Strategic, economic, technical and commercial considerations in relation to demand for water are addressed in the draft EIS. The project rationale is discussed in the context of contributing towards regional water supply security solutions following extensive State and local government analysis and investigations undretkaten as part of the Central Queensland Regional Water Supply Strategy (CQRWSS) study. The staging of the project will allow flexibility to respond to changes in fiming and demand growthe of social, cultural and enformance (view) and cost, Inclusive with the Growing Central Queensland Initiative and other stakeholders regarding demand requirements. Assessment and investigation of alternative water sources a not the scope of the Project. The CORNVSS study considered a range of alternative water supply options. 	1. Volume 1, Chapter 1 Introduction, Sections 1.4 and 16 2. Volume 1, Chapter 1 Introduction, Section 1.4.1	n/a
		Project rationale	029.01 continued.	Capacity to obtain the 30000 ML industry water and LGA from alternative sources Cost benefit analysis for 42000 ML not present.	Proponent to provide response	3. GAWB has undertaken separate analysis and assessment of water supply options in relation to its requirements for a contingent supply (http://www.gladstone- fitzroypipeline.com.au) 4. The cost-benefit analysis presented in the draft EIS is presented for each development stage up to and including the supply of 76,000 ML/a.	3. Volume 1, Chapter 1 Introduction Sections 1.5.3. and 1.6.2 4. Volume 1, Chapter 19 Economics, Section 19.4	n/a
		Project rationale	029.01 continued.	5. Mine waster use over economic life of weirs; Current excess of mine water; real cost of - purping to Surat basin (Wandoan coal was to use Nathan supply but CSG RO water excessive 25 years 6. FIIS/FAP/Soils make this highly speculative given the failure of other Fitzroy Industry Infrastructure Sub-/Fitzroy Agricultar Precind FIIS-FAP/Soils proportals, and likely cost of water for med-low value production (as opposed to 25 years of endeavours to obtain sustainable pasture fed / low irrigation production compatible for Nature conservation, biodiversity, niver health, etc	Proponent to provide response	5. While some demand for water from mining and related industries can be expected in the long term, volumes required are difficult to predict. There are no existing or proposed coal mines in the Rockhampton and Gladshone regional supply options such as separately considered other regional supply options such as connors River Dam and Nathan Dam as well as use of coal seam gas water initiatives. 6. Water demand assessments with regard to agricultural development are being progressed by others, such as the Growing Central Queensland Initiative (http://dafex.com.au/growing-central-queensland)) The proponents continue to engage with the Growing Central Queensland Initiative and other stakeholders regarding demand requirements to understand demand as it might arise and facilitate the staged development of the project.	5. Volume 1, Chapter 1 Introduction, Section 1.4.2 6. n/a	n/a

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		Project rationale	029.01 continued.	 Barrage – improve water use efficiency and total; water cycle management instead RRC industrial park highly speculative (note Stanwell Industrial estate history, magnesium industry) 	Proponent to provide response	7. The Fitzroy Barrage was assessed and included for consideration as part of the CORWSS study and also as part of the options for the project. It is concluded that additional supply from the Fitzroy Barrage will not provide a regional water demand solution. 8. The project is proposed in the context of providing a solution towards regional water supply security. Consideration of potential future industrial urban and agricultural activities is being considered. The staging of the project will allow flexibility to respond to changes in timing and demand growth. This will ensure that the infrastructure developed is sustainable in items of performance (yield) and cost, inclusive of social, cultural and environmental considerations.	7. Volume 1, Chapter 1 Introduction, Section 1.6.1 8. Volume 1, Chapter 1 Introduction, Sections 1.4 and 1.6	n/a	
		Project rationale	029.01 continued.	9. CCC comments on the federal Government's Agricultural Competitiveness Green Paper (appendix A) expand on the environmental and economic concerns and possible alternatives to the Lower Fitzroy Infrastructure Project (LFIP), or other Fitzroy Basin dams. 10. Significant research and development into river health and agricultural options which improve ecological connectivity and biodiversity resilience is needed before any approvals or construction. 11. The needed to be a moderate approach before the entire LFIP can be approved and constructed. Assessments of the imteriane for the Fitzroy Barage freshwate supply to become vulnerable, for example to higher sea levels and storm surge which could over-top the barage or threaten the integrity of the structure would guide decision making about alternatives.	Proponent to provide response	9. Noted. 10. Agricultural development is not the scope of the EIS. As applicable assessment of impacts potentially arring from facilitated agricultural development are included within the additional information to the draft EIS. 11. The Fitzry Barrage is owned and operated by RRC. RRC and DEWS are investigating water supply security for Rochampton. The assessment considers arrous growth scenarios to determine the timing and magnitude of potential water supply shortfalls under the existing water security, including the construction of water sorages elsewhere in the Fitzry Bain. Refer to https://www.dews.gld.gov.au/datalassets/pdf_file/00033387	9. n/a 10. Volume 2, Chapter 12 Cumulative and consequential impacts, Section 12.4.2.3 11. Volume 1, Chapter 1 Introduction, Section 1.4.1	10. Chapter 11 Consequential impacts	
		Project rationale	029.01 continued.	12. Given the already modified state for riverine to lacustrine of the Barage and Eden Bann Weir sections, would it not be more sensible to improve their operations (including thing the poorly designed fishways) before considering Rookwood Weir which will drown great lengths of habitat and ritical natural flow, sedimentation and water filtering capacity above and below the final major river conjunction of the Basin? 13. The Connors Nicer Dam, despite being approved has not proceeded apparently due to limited markets for the water. CCC does not promote the Connors River Dam, despite being as comparative study is done into the biological impacts of tuper cathment storage options va. the LFIP, we are prone to poor decision making. Specifically, storages high in the cathment impoundment, of eatury turnacions in the case of the Fizzoy Barage. Lower insteam impoundment, estaury timupation as in the case of the Fizzoy Barage. Lower insteam impoundment, estaury market whole of system biological impacts (including Great Barrier Reef lagoon) than upper cathment barries.	Proponent to provide response	12. As concluded from the CQRWSS study, improved utilisation and management of existing infrastructure will not be sufficient to respond to regional water supply demands into the future. 13. Regional water supply security objectives have considered arrange of options and alternative solutions. Each optiential infrastructure development is and has been subject to its own environmental assessment. Consideration of other proposed storages as an alternative to the project addressed in the draft ES. It is determined that neither Comors River Dam nor Nathan Dam would achieve the water demand requirements in the Lower Fitzroy.	12. Volume 1, Chapter 1 Introduction, Section 1.4.1 13. Volume 1, Chapter 1 Introduction, Section 1.6.3	nia	
029.02		Project alternatives	E1.4 GAWB's Strategic Water Plan concludes that the GFP Project (with its link to the Project) is the preferred option Water storage infrastructure - Nathan Dam on the Dawson River unlikely that supply from Nathan Dam will achieve Project objectives and provide an economically viable solution to long-term water supply requirements in the lower Fizzroy system • Fitzroy Gap Dam: Environmental impacts on the aquatic ecosystems, terrestrial flora and fauna and loss of land associated with inundation will be considerably more severe than the Project due to impoundment outside of the inver bed and banks • Non-infrastructure options - Agricultural demand has the potential to be met through the take up of currently unutilised, or under-utilised, water allocations.	More detail required on the 'GFP' project. Z. GFP preferred option' needs better explanation and justification on environmental and economic grounds Nathan Dam on the Dawson River – still states '(will) primarily service coal mines and power stations in the Surat Basin; yet the main potential purchaser of water Wandoan Coal and Power Station projects have been withdrawn; also	Proponent to provide response	The GFP was subject to and obtained separate environmental approval; refer to http://www.statedovelopment.pd/gov.au/assessments-and- approvalsigidatione-titzroy-water-pipeline.html. 2. GAWB 52:004 Strategic Water Plan identified 13 water source augmentations. Evaluation of these options against water quality, security, environmental, social and water pricing criteria resulted in nine options being selected for further assessment comprising weits on the Fitzory River, weits on Baffle Creek, raising Awoonga Dam and/or Castel Hope Dam and a desaination plant (GAWB 52:103). Detailed analysis of these options is provided in GAWB's 2013 Strategic Water Plan. 3. The proposed Nathan Dam is subject to its own environmental assessment, demand studies and business case.	Volume 1, Chapter 1 Introduction, Section 1.6.2	n/a	

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	Project alternatives	029.02 continued	I. The Upper Dawson is anticipated to receive up to 85,000,000 ML of coal seam gas produced water (CGC and Santos). The Wolchese poption alone's estimated to receive asses, 35,500 Megalitess of treated CSG water per year from QGC's Queensland Curtis LNG project for beneficial use by industrial and agricultural industries. There needs to be a full business case and comparative ecological impact assessment of utilising this water rather than adding additional barriers to natural river flows. 5. This assessment of utilising this water rather than adding additional barriers to natural river flows. 6. This assessment of utilising his water rather than adding additional barriers to natural rower flows. 6. The cost of that water in existing high demand, Thigh growth rears. After al a whole of water cycle management' approach should consider that the producers of the water (CSG-LNG) should be responsible for the economic and ecologically sustainable use of the water (CSG-LNG) should supplic that the Dawson River with untested assumptions that local agricultural or industrial flow regime into the Dawson River with untested assumptions that local agricultural and perturbing costs, ransport and other costs) 7. Fitzroy Gap dam – Agreed, even if the highly variable and the Gap Dam would be flaxed for the highly variable and fragile soils of the floodplains of the Fitzry Dewson and Mackenzie.	Proponent to provide response	4., 5. and 6. The Woleebee Creek to Glebe Weir Pipeline beneficial use scheme supples treated CSC water to customers within the Dawson Valley Water Supply Scheme. Separate environmental assessment and demand analysis has been undertaken by SunWater regarding this supply of water and approved Obtained Gleenforal use approval ENBUM254412). Use of the water is regulated through the ENEVM254412. Use of the water is regulated through the ENEVM25412 of the inacordance with the Fitzry KOP. Given the location of infrastructure and distance to the Project together with current demand, it is unlikely that supply from this area will active Project Objectives and provide an economically viable solution to long-term water supply requirements in the lower Fitzroy. 7. Noted.	Volume 1, Chapter 1 Introduction, Section 1.6.2	n/a	
	Project alternatives (continued)	029.02 continued	8. The potential for 'agricultural demand to be met' needs far greater assessment than a speculative assumption that the agricultural use will produce investments in feedlots and cropping. There is an underuilising of current supply for ingeted cropping, industry or improved pasture and no evidence that 3-industrial scale cattle feedlot entities (the number assumption that business case for the previous FIS/FAP programs for Rohwood-Esomed to create the initial business case for the previous FIS/FAP prozens for Rohwood-Esomed business there are no evidence that a super structure for the potential water market then 'build it and they will come'.	Proponent to provide response	B. Agricultural development is not the scope of the project. Regional water supply security is the focus and requires strategic. Iong-term glanning for water storage infrastructure. Various State and regional stakeholders, including the Growing Central Queersland initiative have and are progressing detailed analysis in this regard; refer to http://dafou.com.au/growing-central-queensland/ Impacts arising from potential facilitated development are assessed in the additional information to the draft EIS.		Chapter 11 Consequential impacts	
029.03	Consultation	E1.6 Table E-4 Consultation phases	Consultation has been diluted due to the on-again off-again project development over seven years. Given the significance of the project to the river system there should be a formal community reference group of stakeholder established. This was standard practice for projects such as the Nathan and Connors Rivers Dams. Such a reference group would raise community awareness and provide greater optications of the significance of the project to the lists mutual series of displays and library meetings just before the EIS comments are due. Some examples of stakeholder groups o Gladston Healthy Harbour Partnership for River Health), to GRRMPA advisory Group (more recently Fizzory Partnership for River Health)), o GRRMPA advisory committees (LMAC, IRAC, TRAC) and with the on-going legal challenges to mine and port expansion, 2. It would be befter for all interests concerned to put efforts into collective understanding and participative decision making vs. decisions about the Fizzory Partnerst concerned to put efforts into collective understanding and participative decision making vs. decisions about the Fizzory being made outside the region (Coordinator General, federal Environment Minister, GAWB). 3. Example: Multi-Critteria Decision Analysis (MCDA) Also Known as Multi-Objective Decision Analysis (MCDA), http://www.lao.orgffsheryleaf-net/eaffooleaf_tool_31	Proponent to provide response	 Consultation has been ongoing since the project commenced in its current from in 2008. The project maintains al 800 free call humber, website and dedicated email address. Separate to project briefings held in the region (including Rockhampton) in 2008/2009, transition to the bilderal process facilitated a formal process for stakeholders to further review and comment on the project through the development of terms of reference. The project provides newsletters and updates at regular intervals and has conducted meetings and briefings pre- and during the drift ES release with stakholders. Consultation has been undertaken (and continues) at a Mational, State and local/regional level, through DSD, DNRM, DAF and DEHP. The EIS has is being undertaken in accordance with the requirements of the terms of reference (ToR). 	Volume 3, Appendix F Consultation Report	Chapter 2 Consultation	

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029.04		Project description	E.2 • The Project is expected to be staged, with sequencing and timing dependant on a number of demand triggers including existing and new consumers, drought conditions and security of supply requirements. • Maps Figure E2-E4	 The language appears to indicate the highly speculative about the viability of LEIP; While population Tends may be fairly indicative of future water demand, industrial demand growth is much more speculative. Seem nore uncertains is the potential for agricultural demand 'tragers', given the nature of regional soils, expected higher costs for irrigation, higher temperatures/exporation, availability and costs of fertilisers (each Phosphorus estimate to been within a few decades, certainly during the mid-life economic cycle of the weirs). The possibility of utilising the already approved Stanwell-Gladstone infrastructure corridor for two way water pipelines and possibly greater use of off-stream storage to enable utilisation of flood event / high flow years to balance the Boyne-Fitzory supply regimes, without depensive ecologically detrimental stream segmentation needs more rigorous study before any approval should be given to expanding Eden Bann and especially constructing Rookwood Weir. Need to be more detailed mapping of extent of inundation of river banks, flood runners, side guiles, wetlands, medium and low flow pool and riffe zones to betteri litistrate the habitat disruption of weirs. These maps should be accompanied with section by section description of changes to habitet type and quality e.g. o Riparian vegetation 'drowning' by higher average water, number / area of trees expected to be lost. o Weediness and erosion/collapse risks of weir 'tidal zones' o Stream depti variations from 'natural' system' including light penetration, temperature profiles 	Proponent to provide response	 The project is proposed in the context of providing a solution lowards regional water supply security. Consideration of potential future industrial urban and agricultural activities is being considered. The staging of the project will allow flexibility to respond to changes in timing and demand growth. This will ensure that the infrastructure developed is sustainable in terms of performance (yield) and cost, inclusive of social, cultural and environmental considerations. The CORWOS considered a number of supply options and solutions, including the CPP to transfer water between the Fizzoy and Boyne catchments. The GPP through the Fizzoy ROP has an interim allowance to bake water under high flow conditions without the need for a storage. Water storages on the Fizzoy River will provide long-term water security to the region. Aquatic habitat types are described in the draft EIS. 	Volume 1, Chapter 1 Introduction, Section 1.4 Volume 1, Chapter 7 Aquatic ecology, Section 7.2.1 Volume 3, Appendix L Eden Bann Weir baseline aquatic ecology report Volume 3, Appendix K Rockwood Weir baseline aquatic ecology report	n/a
029.05		Climate / Climate change	E 3 Environmental values, potential impacts and mitigation & E3.1 Climate, natural hazards and climate change. Water storages are likely to become more important for the purpose of water supply, mitigating drought and for maintaining environmental flows.	More detailed modelling of the range of possible climatic scenarios is needed. The trend since 1950s has been reducing annual regional average rainfall, interspersed with above average flow years. Consideration of risk that expensive, ecologically disruptive infrastructure may not in fact create; o significant improvements in water security during deeper longer El Nino decades o lower flow regimes o reduced flushing ann o increased risk of stagnation and o reduced version oreducing using o disruption to subsurface flows and o ground water dependant species	Proponent to provide response	1. and 2. Flow assessment has utilised 100 plus years of data including significant dry periods (1969 when the system is determined to fail and more recent 2000-2007 period of low flows). Climate and climate ohange assessment undertaken in accordance with her Tork is included in the draft ELS. Further clarification is provided in the additional information to the draft ELS.	Volume 1, Chapter 4 Climate, natural hazards and climate change, Section 4.4	Chapter 7 Surface water resources, Section 7.3
29.06		Land	E3.2 Land Sceric amenity & lighting Topography, geotogy & soils Contaminated land Land use & tenure The Project is located in a rural area, with beef cattle grazing the predominant land use. • Lange rural properties border the weir sites and impoundents, with limited public access. Public reversites thin the Project area en limited to free public access. Public reversites and Foleyale with relatively low usage. • Class A agricultural land and strategic cropping land are mapped in areas along the Fizzy. Mackenzie and Dawson rivers. • The Project's impact on agricultural land and strategic cropping land will be negligible, as there is a limited development tootprint outside of the river bed and banks. Inuclation during operations will be confined to within the river bed and banks and will not impact on the productive capacity of the surrounding land.	Recognition of predominant land as grazing need also to examine the impact of lost or altered riparian grazing, including alterations to improved grazing land management practices like: o Control grazing of riparian for fire and erosion protection o.cos of riparian and biodiversity forning investments from land mangers and Natural Resource schemes (Envirotund, NHT, Caring for Country), Reaf stewardship) o Loss of visual amenity and habitat due to decline in tree and sedge cover due to increased inucation and banks attration, o Increased vaediness between high and low weir watermarks (e.g. Parthenium, Nogoora burr, castor oil plant – some of which are toxic to wildlife and stock) 2. Limited public viewpoints ignores the small number of recreational users such as the Fitzory Cance Cub which have utilised the natural flows and shady campsites on gravel beds and shady lower river benches for decades. The historical granting of feehold right to the river Reserves. Es Gen Ram the same to the hustmaneric location, Rockowod will do the same to the same for hundreds of kilometes from the natural rok-bar at Rockwood right up to and over the sand and gravel beds of the Lower Dawson and Mackenzie.	Proponent to provide response	1. Impacts on land use practices and vegetation, including riperian are addressed in the draft EIS in accordance with the TeR. 2. Noted.	1. Volume 1, Chapter 5 Land, Sections 5.3, 5.5 Volume 1, Chapter 6 Flora, Section 6.3.2, 6.3.3, 6.3.4 Volume 1, Chapter 7 Aquatic ecology, Section 7.3.9 Volume 1, Chapter 23 Environmental management plan	n/a .

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			 Existing land use in the Project area is predominantly cattle grazing, with axisting potential contamination resulting from the storage and use of hydrocarbons, herbicides, pesticides and livestock dips. One potential contamination site is located within the Eden Ban Weir impoundment and one potential contamination site comprises the existing Eden Ban Weir. Two potential contamination sites are located within the Rookwood Weir construction forbinit. Four subject lots are listed on the Environmental Management Register for containing a livestock dip or spray race. No sites are recorded on the Contaminated Land Register. 	 Before the project is approved there should a comparative study of the recreational and tourism (camping and picnic reserves, farm stay, eoc-durism possibilities) or the natural river system and the proposed still water pondages, (camping and picnic reserves, farm-stay, eoc-durism possibilities) If approved there should be compensation, and offset investments to support and encourage greater public access and enjoyment of the river. 	Proponent to provide response	3. There is no indication from publically available material nor has the Project team bern made aware of any such commercial interests being undertaken in the area. It is not considered that development of the Project would prevent such enterprises from being established in the region. The draft EIS is considered to appropriately address the ToR in this regard. 4. As stated in the draft EIS its not intended that the project will promote recentional use of the vinc. Due to askly considerations access to and near the weir sites themselves will be prohibited.	4. Volume 1, Chapter 2 Project description, Section 2.5.1	n/a
			 The main activity occurring on properties affected by the Project is cattle grazing, breeding and fattening. There is some crop cultivation for grains near the weir sites and a small number of properties with imgation licences Reserves (primarily for the purposes of camping, water, roads and slock) will be locally impacted by the Project. In the order of 4 ha of the Ancia State Forest will be impacted as a result of Eden Bann Weir impoundment 	 Public access points currently are not well managed and landholders experience vandalism and report damage to river banks and vegetation from inappropriate use by 4WD vehicles. Any public access points created by the project will need to have a monitoring and compliance plan 6. The reference to Class A agricultural land needs to be referenced to the Land Suitability for Irrigated Agriculture along the Fitzry River, Land Services Bullett DNRQ0027, Forster, B.A., Sugars, M.A., 2000. The reports and accompanying maps show that a tiny amount of soils (<3%) are suitable for irrigated agriculture o Class 1 (model limitations) = 2 267 h ta o Class 3 (moderate limitations) = 56 00 h o Class 3 (moderate limitations) = 55 00 h o Class 3 (moderate limitations) = 55 00 h o Class 3 (unsuitable, extreme limitations) = 17700 h h . The report hows that even the Class 1 and 2 soils occur in tiny disaggregated patches making economic vability of cropping investments capable of effectively utilising the 30 000 ML agricultural water supply very risky The costs borows that even the Class 1 and 2 soils occur in tiny disaggregated patches making economic vability of cropping investments capable of effectively utilising the 30 000 ML agricultural water supply very risky The costs borows that even the Class 1 sand 2 soils occur in tiny disaggregated patches making economic vability of cropping investments capable of effectively utilising the 30 000 ML agricultural water and the Great Barnier Reath needs closer examination. The cost benefit analysis of LFIP relying largely on assumed industrial demand must include a examination of the business case for the under-utilised (and structurally compromised) Paradise Dam on the Burner River should be included. The loss of biodiversity caused by the drowning of ripatian areas could have a detrimental impact on productivity of grazing lands and needs to be better assessed. 	Proponent to provide response	 No new public access points are proposed as part of the project. Refer to 4, above. The assessment presented in the draft EIS has considered Fosters and Sugars (2000) in accordance with the ToR. An assessment of the impacts on agricultural land is in accordance with DAF requirements. Further clarification is provided in the draft EIS. T, and 8. Business cases with regard to agricultural development are being prograssed separately by others, such as the Growing Central Queensland Initiative (http://dafew.com.au/growing-central-queensland)) The propenets continue to engage with the Growing Central Queensland Initiative and other stakeholders regarding demand requirements. The cost benefit analysis includes a sensitivity analysis with regard to the value of vater, amongot others. Impacts on biodiversity are included in the draft EIS. Impacts on land use and productivity are also included. 	Kolume 1, Chapter 5 Land, Sections 5.3.2.3 and 5.3.3.3 Volume 1, Chapter 19, Section 19.4 Volume 1, Chapter 5 Flora, Section 6.2.6 and Volume 1, Chapter 5 Land, Section 5.5.3	6. Chapter 4 Land, Section 4.2.1
				11. The assessed potential contamination sites notes some potential sites though notes there are no records on the register. This seems somewhat inadequate given the possibility that we'r construction, operation increased water tables, reduced flows and sedimentation, let alone the previous suggestions (FIISFAP) of three to nine industrial scale cattle feeddos and the already mentioned speculative addition of intensified agricultural activity will potentially mobilise sats, sediments from leagey land clearing, meetal scut as Cadmin form poor quality superphosphate applied liberally during the Brigatow Scheme, mine water contaminant accumulation in fine sludge, reduced flushing and filtration from loss of riffic zones. 12. The recognition of current main use for grazing with on or off stream water and some irrigation spens somewhat lated given the laspes since the project was an election promise (FIIS 2005 ¹). Previous endeavours like pivot irrigated peanuts have been abandoned, though a tiltit irrigation to improved pastures and a trial of irrigated Leucena (results unknown) stil occurs. The variable, generally poor soils types and the cost benefits of irrigation suggest that the market for agricultural use of LFIP are tenuous.	Proponent tr provide response	 As par the draft EIS, further investigations are proposed at applicable. Noted. 	3 11. Volume 1, Chapter 5 Land, Section 5.4.3	n/a

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				13. "FIIS/FAP Feedlots: Suitable areas for as many as 10 feedlots consisting of 15,000 head. Poggeries: Suitable for some 20 to 30 piggeries; ranging in size from 9000-72,000 head. Poggeries: Suitable for the production of fodder crops to supply the feedlots with their hay requirements. Potociature: Suitable for horticultural tree, vine and vegetable crops, such as citrus, grapes and carrots. I.4. Limited public access areas (reserves) suitable for recreation or scenic values generally consist of river crossing and shady midden dower river benches. Higher water levels (and water level variability, let alone probably lower water quality and invasive aquatic weediness) will severely limit.	Proponent to provide response	 Noted. Adressed in the draft EIS. Public access is limited and winct be encouraged as a result of Project development. Some loss of reserve areas are predicted. 	1 14. Volume 1, Chapter 5 Land, section 5.5.3	n/a
029.07		Flore	E3.3 Desktop assessments, vegetation mapping, field surveys and bio-condition assessments were undertaken to determine existing flora values Regional ecosystems are typically fragmented across the landscape as a result of historic clearing including parts of the ripartian zone of the lower Dawson, lower Mackenzie and Fitzroy rivers. In addition, 185.9 ha of high value regrowth will be lost within the Eden Bann Weir Project footprint and 372.3 ha of high value regrowth within the Rookwood Weir Project footprint. Approximately 40 ha of essential habitat are mapped within the Eden Bann Weir Project footprint and 11 ha of within the Rookwood Weir Project footprint.	I. It is noted that "further studies" are necessary to fully assess the loss, disaggregation or other impacts of the weirs and other infrastructure, construction, traffic etc. 2. What is not noted is the viability of any remediation or biodiversity offset potential for the diverse, fragmented final communities. Fixe example loss of specialist riparian communities like Colibah or Black-iron box are virtually impossible re-create away from their preferred riverine soils, flow engines let alone replicate the co-dependent ecosystems. 3. The area contains many small to medium grows and well or moderately interconnected biodiversity corritors, many of which are protected with cortod grazing regimes and fencing, existing or potential nature covenants or refugate distribution reduction of lingited agriculture needs further assessment. 5. hatural values for the intrinsic values and ecosystems sources contributions must be considered in a whole of the cybe analysis of the proposel. For example: o Loss of the shade provided by rigarian vegetation and resulting higher evaporation, hotter surfaces ware traperatures on closs for funging in the provided by rigarian vegetation and resulting higher evaporation, hotter surface water temperatures o Loss of the shade provided by rigarian vegetation and resulting higher evaporation, hotter surface water temperatures		1. It is considered that assessment meets the requirements of the Tork for the EIS. Further studies are proposed to refine the assessment as the project developments, including further opportunities for avoidance, mitigation and management of impacts. 2. An in situ offset for the impact on black-ironbox is proposed and described in the draft EIS. 3. Noted. Biodivensity is addressed in the draft EIS. No nature covenants or refuges are impact by the Project. 4. Land use and productivity impacts are addressed in the draft EIS. Califications are provided in the additional information to the draft EIS specific to land holder queries. 5. Impacts on therestial and aquate coxystems are addressed in the draft EIS specific to land holder queries. 5. Impacts on terestial and aquate coxystems are addressed in the draft EIS. Its not proposed that the weir will be cleared on vegetation prior to impoundment. Die back of vegetation will occur over a period of time. Simultaneously, as is evident from the existing Eden Bann Weir, ne-stabilishment of vegetation in the riparian zone will occur.	Z. Volume 2, Chapter 14, Section 14.3.4 Journe 1, Chapter 6 Flora, Section 5.2.6 and Chapter 5 Land, Section 5.5.3 Volume 1, Chapter 5, Section 5.5.3 and Chapter 18 Social impact assessment; Section 16.3 S. Volume 6 Flora, Section 6.3	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.4 Chapter 4 Land, Section 4.2.2 Chapter 8 Water quality, Section 8.2
		Flora continued	In accordance with the SP Act, the Project is deemed to be 'other community infrastructure', specifically water cycle management infrastructure' and is considered not assessable development. The clearing of native vegetation including regrowine vegetation and essential habital is exempt development and will not require approval or assessment against is exempt development and will not require approval or assessment against is exempt development and will not require approval or assessment against is exempt development and will not require approval or assessment against is due shall be a state of the SP Act. Offsets are not proposed in terms of Queensiand legislation for remnari vegetation. Offsets are proposed for impacts on Commonwealth listed species, namely, Brigalow TEC and loak vinobox (Eucalyptus raveretiana) in accordance with the EPBC Act Environmental Offsets Policy.	6. The application of the SP Act to apply 'not assessable exemption for impacted vegetation in in contempt of the Australian and Queensland Government's stated commitment to 'building biodiversity' resilience', ensuing 'no net loss of biodiversity', preventing more species becoming prone to exinction and the vegetation's role as a flagit ermannt riparian control and any the largest river basin feeding the eccesystem of the Great Barrier Reef. 7. The application of exemptions needs to be tested against the expectations of the UNESCO Work Heritage Committee review into the management of the 'outstanding universal values' of the Great Barrier Reef World Heritage Area. The WHA Committee review and the associated GBR Strategic Assessment Learly noted the need for whole of GBR catchment actions and the historical legacy of land clearing, agricultural practices and coastal urban and industrial developments as major factors in the decline of GBR water quality and biodiversity loss.	s	6. Legal obligations are addressed in the draft EIS and offsets as necessary and applicable are included. Community infrastructure designation provides for exempt development and is addressed in the additional information to the draft EIS. 7. An assessment of the project impacts on the GBRWHA is included in the draft EIS. An assessment agains the Reef 2050 water quality targets is included in the additional information to the draft EIS.	7. Volume 2, Chapter 9 World Heritage properties and National Heritage places	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.4 Chapter 4 Land, Section 4.2.2 Chapter 8 Water quality, Section 8.2

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		Flora continued	Introduced plants and weeds are ubiquitous across the Study area. Eight weeds listed under Queensland legislation, five of which are Weeds of National Significance were recorried during field studies. A Weed Management Plan would be prepared and implemented to prevent the introduction of new weed species into the area and minimise the spread of weeds within the site.	8. Work currently being done by GBRMPA and other groups to map and analyse, catchment by catchment, this legacy and estimate impacts of future land use changes needs to be included in the assessment of the weins – not just the loss of fiparian corridor and squatic connectivity but the impact of the suggested intensification of lingisted agriculture in the Lower Fitzroy. A search of SPP. Matters of State Environmental Significance regulated vegetation maps virtually the entire inparian corridors of both Eden Bann and Rookwood inundation zones as containing "regulated vegetation. Why does the draft EIS dismiss the extent of the loss and claim that the loss Will not require approval or assessment?" 10. There is a building body of evidence of limitations to weed control (Glyphosate resistance, changes to aquatic micro floral communities from residues herbicides, implication for amphibian morbidily from pesitides and associated surfactants to mane but a few. Juadite weeds in the Fitzroy Barrage (Hymenachne, Para Grass, Hyacinth, Water Lettuce, Salvinia) have been an intractable problem. 11. Spraying, bio-control, physical removal has been an expensive and partially successful orgoing operation. Blick welf crueis and floodylain lagoons has been detrimental to welfer quality and biodiversity (birds, fish, macro-invertebrates, turles and probably native mammals and monotemes). 12. Excessive decaying vegetation disologie in flow events and floods has been atributed as the cause of extensive fish hills due to dustoved oxygen. 13. Researchers are continuing to find new or more bios forms of cyano-bacteria in the Fitzroy (Fabro, L. CUI) 14. The increased noxious weed threat from hundreds of additional kilometers of still, lower flushing streams will create a significantly higher ecological threat, directly and indirectly from the control mechanism required.	Proponent to provide response	8. Further assessment with regard to impacts from potential facilitated development is included within the additional information to the draft EIS. 9. Refer to 6. above. 10. and 11. Noted. — Weed management would be undertaken with reference to relevant Queensland and local government legislation, guidelines and guidents and plans including: LP Act, Plant Protection Act 1999 (Qu); Biosecurity Queensland holices and guidelines: DAFT peet Management Plan 2012-2016; and Carthal Highmark Regional Council (CHRC) Park Management Plan 2012-2016; L2: An assessment with regard to decaying vegetation as a result of the project is included in the draft EIS. 13. Noted. Avater quality monitoring program is to be developed. Appropriate and applicable management measures will be applied.	10. Volume 1 chapter 23 Environmental management plan, Sections 23.4.3 and 23.5.1 13.2. Volume 1, Chapter 11 Water quality, Section 11.3.2 13. Volume 1, Chapter 23 Environmental management program, Section 23.5.2 Volume 1, Chapter 21 Cumulative impacts Volume 1, Chapter 23 Environmental management plan Volume 2, Chapter 12 Cumulative and consequential	8. Chapter 11 Consequential impacts	
		Flora continued		15. The full costing of the weed potential to: o reduce water quality, o increase aquatic species mortality o increase aquatic and pesticide to the Fitzroy Barrage. Estuary and Keppel Bay o be magnified by the numerous (hundreds) of seasonality dry side gullies, minor tribularies, billabong and floodplain becoming anoxic, nanerobic bacterial species accumulation areas, aside from breeding grounds to noxious nected schematel tab wildle, stock and humans. 16. as well as the ongoing ocst of a weed control program needs to be considered as part of the assessment of the economic vability of FIP. 17. Economic modelling must include high risk assessment for the anticipated new normal' weather patterns of higher themperatures, reduced flows, higher victuremi events like major floods as well as localised events as experienced from ex. TC Oswald (<i>Ex. Topical Cyclone Oswald tacket south hand and parallel be the estAl subtalica cast producing heavy to interest anial and with sprate late the englor causing wide-spread major river flooding. The low pressure system then stalled for 48 hours in the <i>Capricarina region of Querestian (I paralle) partse rainfall and wide-spread 24 hour tables greater flath Biodate the aviar flath greater flath and the angality soute flath greater flath greater and solated 48 hour tables greater than BIO millimetres BIOM Ex- TC Oswald Floods - January and February 2013 18. Natural flows sta species like Parthenium are spread from upper catchments regardless of how much weed control local land managers undertake.</i></i>	Proponent to provide response	 and 16. Potential impacts associated with weeds and pests as a result of the project are addressed in the draft EIS. Mitigation and management cass are included within Project costs and considered as part of the economic assessment and benefit cost analysis. Environmental management presented in the draft EIS describes the emergency preparedness and response planning measures considered as part of operations of water included within Project costs. Noted Large foods are not impaded by the weirs and flushing can courcu. Weir design has incorporated large outlet works capable of making releases of up to 58 m³/s to simulate post-winter flushing flows. 	 and 16. Volume 1 Chapter 5 Land, Section 5.5.3 Volume 1, Chapter 6 Fizas, Section 6.3.4 Volume 1, Chapter 19 Economics, Section 19.1.2 Volume 1, Chapter 19 Economics, Section 19.1.2 Volume 1, Chapter 23 Environmental management plan, Section 23.5.1 Volume 1, Chapter 19 Economics, Section 19.1.2 Volume 1, Chapter 23 Environmental management plan, Section 23.5.1 Volume 1, Chapter 22 Environmental management plan, Section 23.5.4 Volume 1, Chapter 22 Foriornetics, Section 5.2.1, 2.3.1 and 2.5.4 Volume 1, Chapter 23 Environmental management plan, Sections 23.5.1 Volume 1, Chapter 23 Environmental management plan, Sections 23.5.1 and 23.5.2 	n/a	
		Flora continued		19. Assessment should be made into who would pay for the increased Biosecurity controls and water quality risks: o Cladstone Area Water Board? o SumWater? o Local government? o Local government? o Coefficient Inders? o Coefficient Community (through increased rates, Biosecurity costs increasing water, land and general taxtion? o Compliance agencies and consultants and research funds to address the considerably increased risk?	Proponent to provide response	 Environmental management costs for project related impacts are included within Project costs and considered as part of the economic assessment and benefit cost analysis 	19. Volume 1, Chapter 19 Economics, Section 19.1.2	n/a	

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029.08		Aquatic ecology	E3.4 Aquatic habitats in the Fitzroy, Mackenzie and Dawson rivers are highly dynamic • The impoundment created as a result of the existing Eden Bann Weir is the dominant aquatic habitat type within the Eden Bann Weir Project tooprint. Upstream of the existing impoundment. The Fitzroy River (as well as the Dawson and Mackenzie rivers) exists as a series of pool-riffle-run sequences Three fiss species, southern sarratog (Schorngoges ichardti); latelheny grunter (Scortum hilli); and Fitzroy River golden parch (Macquaria ambigua oriens), identified as known or likely to be present, are considered to have a bacal conservation value due to their restricted geographic range - Six turite species have been identified as known or likely to be present. The Eitzroy River turite (Endodys), while Hrotades dangping turite (Ebsey albegula); saw-shelled turite (Chedops), while Hrotades dangping turite (Ebsey albegula); saw-shelled turite (Chedona longicollis). The Fitzroy River turite is listed as vulnerable under the EPSC Act an NC Act. The white throated snapping turite, saw-shelled turite, Krefft sriver turite, broad-shelled timer turite and eastem snake-necked turite are native species listed as least concern under the NC Act	 The proposed Rookwood Weir and the raising of Eden Bann will reduce natural "highly dynamic river system by over 200 kilometres, converting a diverse riparian system from the last of Dawson and Mackenzie Weirs (Baralaba and Tartrus) to the top of the barrage pondage to a lacustrine dominated system (separate by reduced flow riflepcion termants. Even if was ecologically and economically possible to offset, mitigate, restore, replicate or invest in species protection research for vurinerable species or threatened communities, it would be impossible to replace 200 kilometres (- given the peripheral impacts above, below and beside weir pondages) of the largest river system entering the GBR lagoot. Jingh's engineence fishways and Lutic ramps cannot mitigate against the loss of the "highly dynamic" diverse river system. Increased "giveneit" daws and unter amps cannot mitigate against the loss of the "highly dynamic" diverse river system. Increased "giveneit" on advertise or of vore the top fails. The Fitzry Barrage fishway has proven marginally effective (e.g. Wire tooth Jewfsh, Sawynok, V) with various suitades to re-design, re-rebuild, add additional fish ways, Vepen floodplain modifications to increase alternative passage -5 yearly vs. 25 yearly. The ElS also appears to acknowledge that the existing Eden Bann fish loch is not fully effective; 		 and 2. Potential changes to aquatic habitat are addressed the draft EIS. Miligation and management are proposed. Where residual impacts remain offsets are provided as appropriate. 4. and 5. Fishways and turtler ramps are designed in accordance with best available information and proposed to be implemented in conjunction with monitoring programs inclusive of adaptive management provisions. DNF and DEHF guidelines and recommendations have been considered and adopted as appropriate and are reflected in the proposed implation and management measures. As appropriate management plans are updated in the additional information to the draft EIS. 	1. and 2. Volume 1. Chapter 7 Aquatic ecology, Sections 7 2.1, 7.3.2 and 7.3.3 Volume 1. Chapter 22 Offsets Volume 1. Chapter 24 Offsets Volume 1. Chapter 23 Environmental management plan. Sections 23.5.1 and 23.5.2 3.4. and 5. Volume 3. Appendix X Fish passage technical report Volume 3. Appendix M Fitzroy River turtle (Rheodyles leukope) species management program	3., 4. and 5. Chapter 5 Fitzroy River turtle and white-throated snapping turtle Chapter 12 Environmental management plan Appendix F Erzy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan
		Aquatic ecology (continued)	• Estuarine crocodile (Crocodylus porosus), listed as vulnerable under the NC Act, is confirmed present within the Eden Bann Weir Project foolprint. Although cocodiles are occasionally observed upstream of the proposed Rockwood Weir site they are uncommon beyond Gienroy Crossing • Studies of macroinvertebrad burstly recorded a total of 4.270 individuals from 59 families of macroinvertebrad burstly recorded a total of 4.270 individuals from 58 families during the vet season and 233 individuals from 58 families during the dry season. A total of one hundred and five species of macrophytes have been previously recorded in the Fitzrey Basin catchment, however, macrophytes abundance and diversity was relatively low within the Project footprints at the time of survey	6. The EIS appears to contain no reference to the more recently identified river dependant Dolphin species Australian Shuthin and Australian Humpback. While predominantly residing in the Fitzory Delta and nishore waters, there is a body of research showing the negative impact of dams and weirs on riverine/estuarine dolphins. 7. There needs to be an assessment of the potential water flow, water quality, altered run off, particularly if agriculture intensities" in and near the floodplain, alteration to fish species and population mix on these and other downstream megatanea. 8. "Studies have shown that costal dolphins in Q adready have elevated levels of pollutants (IDDT, FORS) in their bodies (Cagnazzi, D, SCU). Could the writes and the speculative intensities for dolp plain agrinulture being a potential contributor to increased soil, firlier and pesticide run- off have implications for dolphin health (mobidity, mortality)/further downstream? (Pixer Dolphins: Can They Be Saved? Dy E Etabeth Carpin Date: Study, May 1, 1994. 'Dams and other developments alfect river dolphins by reducing the numbers of (ISh in rivers and lower) developed agrees. 'Attp://www.internationalrivers.org/tesourcestriver.		6. Australian snubfin dolphin (Orcaella heinsohni) and Indo-Pactific humpback dolphin (Sousa chinensis) are addressed in the draft EIS as migratory and marine species protected under the EPEC Act. 7. and 8. Potentially facilitated agricultural development is addressed in the draft EIS Additional assessment has been undertaken with regard to potential consequential impacts. Results are presented in the additional information to the draft EIS.	6. Volume 2, Chapter 11 Migratory and marine species, Sections 11.4.1 and 11.4.2 7. and 8. Volume 2, Chapter 12 Cumulative and consequential, Sections 14.4.2 and 14.4.3	7. and 8. Chapter 8. Water quality, Section 8.2 Chapter 11 Consequential impacts, Section 11.4
		Aquatic ecology (continued)	• Macrophyles were uncommon in riverine (in-channel) habitats within the Eden Bann Weir Project footprint and generally in low abundance at sites assessed within the proposed Rockwood Weir footprint. Aquatic weeds recorded within the reactoment include salvinia (Salvinia molesta) and Hymenache amplexicaulis - Potentially buicb blue-green algae blooms are known to occur throughout the Fitzmy Basin actiment in response to high pH tijhon Jhuritents and low flows (Noble et al. 1997). Within the Rockwood Weir Project footprint, filamentous algae were particularly prevalent in riffle and run habitats where clear, shallow water occurred. Only low levels of blue-green algae have been recorded from the existing Eden Baan Weir impoundment (file environment) 2005). • The Project Sorgetion will result in the inundation of an additional 114.5 km of natural riverine habitat, increasing the area of impacted habitat within the Fitzry Dasin and Mackenzie subcatchments by 10 per cent. In regard to each weir: o Raksing DEden Bann Weir (to Stage 3) is expected to inundate an additional 27.5 km of natural river habitat will be inundated as a result of the proposed Rockwood Weir Stage 2, comprising approximately 21.2 km of anautal 45 km of riffle habitat. This equates to approximately 22.2 he of aquatic habitat. 29.1 km of anautal to 42.1 km of anabitat and 21.2 km of mille habitat. This equates to approximately 44.4 km of pool habitat, 29.1 km of aquatic habitat on the proposed Rockwood Weir Stage 2, comprising the proposed Rockwood Weir Stage 2, comprising the proposed Rockwood Weir Stage 2, our prising the server levels to approximately 44.4 km of pool habitat, 20.1 km of river habitat this provides for normal operating conditions as well as low spillway flow condition the weir. The approxed Rockwood Weir Stage 2, our prising they approxed Rockwood Weir Stage 2, our prising approximately 44.4 km of pool habitat, 20.1 km of river habitat. This provides for normal operating conditions as well as low spillway flow conditio	9. There appears to be no species management plans for 'non-listed turtles' despite the significant habitat and potential food source alteration from weir construction, operation and potentially agricultural interstification. 10. Highly engineed turtle range cannot guarantee increased mortality and morbidity from water quality changes, shell damage from falls over flowing weirs. 11. Given the historical segmentation of the whole basin from weirs and dams (and the possibility of further habitat tos if Counon SNev Dam is resurrected and Nathan Dame wer proceeds, there should be detailed analysis of population dynamics' species balance from the LiP barriers, and creation of desper prodages likely to focur common or non-endernic, loss threatened species over Rheodytes leukops (agity named while eyed river diver due to its preference for rifle zone enhanced, higher disolved oxygen natural pols. 12. Could he loss of such habitats plus the competitive pressure for food and nesting sites push Rheodytes leukops (agity named while eyed river diver due to the preference for rifle zone enhanced, higher blabits bus the competitive pressure for food and nesting sites push Rheodytes leukops (agity named while eyed river diver due to due to the preference for rifle zone tankande, higher sites weith the relater leuvicomment's biodiversity dottsm: the heafts' or a lease consulted own windowersity dottsm: the heafts' or a lease of biodiversity dottsm: the heaft or an lease of biodiversity dottsm: the standards? 13. Macro invertebrate studies, despite being a proxy for more detailed water quality and trophic health indicator have been acknowledged in a range of studies Quality dotswory (Group Tizoy Partnership for River Health, intermitent sampling e.g. Dee River, graduate/master research projecis). The alterefor or regimes, water chemisty changes, water depity changes, water chemisty changes, water depity changes, water depity changes, water chemisty changes, water depity changes, water chemisty ch	Proponent to provide response	 Mitgation and management measures for non-listed species are included within general measures presented in the draft EIS and included within the wider Project environmental management (plan. Nu withstanding, a muther draessures proposed for the species specific management to mapatio on the Fitzory River turke and while throaded snapping turtle apply to non-listed turtle species as well. Wird reisein and turfe ramps are designed in accordance with best available information and proposed to be implemented in conjunction with monitoring programs inclusive of adaptive management provisions. DEHP guidelines and recommendations have been considered and adopted as appropriate and are reflected in the proposed design, mitigation and management measures. While presented as features to avoid injury and mortality for listed species, design features apply to all turtle species. Water quality management measures and monitoring programs are included. and rat2. Competition for resources with more generalist EIS, including proposed mitigation and management measures for impacts on the species. The draft EIS predicts as short-term increase in macroinvertehret leavs with more generalist species has been considered and is addressed in the draft EIS, including proposed mitigation and management measures for impacts on the species. The draft EIS predicts as short-term increase in macroinvertehret bax with in the impoundment is expected. Mitigation and management are proposed to reduce the level of impact. 	 Volume 1, Chapter 7 Aquatic ecology, Sections 7.3.4, 7.3.6, 7.3.8, 7.3.9, 7.3.10 Volume 1, Chapter 23 Environmental management plan, Sections 23.5.1 and 23.5.2 Volume 3, Appendix L Filzroy River turtle (Rheodytes leukops) lechnical report Volume 3, Appendix M Fizroy River turtle (Rheodytes leukops) species management program 11. and 12. Volume 3, Appendix Lizroy River turtle (Rheodytes leukops) lechnical report Volume 3, Appendix M Fizroy River turtle (Rheodytes leukops) species management program 11. and 12. Volume 3, Appendix Lizroy River turtle (Rheodytes leukops) lechnical report Volume 1, Appendix M Fizroy River turtle (Rheodytes leukops) species management program 13. Volume 1, Chapter 7 Aquatic ecology, Section 7.3.3, 7.3.6 and 7.3.9 	nía

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		Aquatic ecology (continued)		14. Microbial studies (cyano-bacteria, anaerobic bacteria, diatoms, etc become even more important due to their importance to the food chain, decomposition cycle and even greater sensitivity to water flow quality chemical etc changes. 15. The economic viability of the project is substantially based on the suggested 36 000 ML for infereive agriculture. This needs much more analysis due to the probability of increased soil, fertiliser and pesticide run-off.	Proponent to provide response	14. Noted. Assessment is considered appropriate to the nature, scale and extent of the potential impact in accordance with the ToR. Potential impacts on blue-green algaes are addressed in the draft EIS. 15. The economic vability of the project considers all stages of development. The staging of the project will allow fexibility to respond to changes in timing and demand growth. This will ensure that the infrastructure developed is sustainable in terms of performance (yield) and cost, inclusive of social, outural and environmental considerations. Demand growth is predicted from industry, urban and agricultural development. The cost beneficially is for each project stage includes a sensitivity analysis with regard to the value of water, amongst others.	14. Volume 1, Chapter 11 Water quality, Section 11.3.2 Volume 1, Chapter 23 Environmental management pan, Sections 25.1 and 23.5.2 15. Volume 1, Chapter 19 Economics, Section 19.4	n/a
		Aquatic ecology (continued)	 The lock is in a configuration known to work (although physical model studies are required to assist with refinement of entry / exit conditions and sedimentation management) 	16. Similarly the economic cost and environmental harm from aquatic weeds and their management (spraying etc) deserves much greater independent scruthy. This should include modelling for new Biosecurity risks/species, polential of greater dimatic variability dreatmes favouring weedy species in high evaporation, limited flow weir storages (particularly the backwater gully which will rarely get lisked even in hood times (checkout the weed histoy of Long Island Environmental Reserve, Ramsay Creek, Limestone Creek and Lion Creek right near the Barrage – until al large localised rain events bocur these site stream accumulate all manner of aquatic weed and expensive control programs are ineffective and expensive control programs are ineffective and expensive control becautioned in the direct and indirect cost (water quality, low oxygen levels, fairwor Valer Cuality Advisor Quand CQ Mme Reabilitation Group have suggested there are shifts in algae communities and levels of neuro-toxicity (Fabbro, L. CQU).	Proponent to response	16. Potential impacts associated with weeds and pests as a result of the project are addressed in the draft EIS. Mitigation and management measures are proposed. Environmental management costs are included within Project costs and costal endysis. If 2. The draft EIS is considered to address the requirements of the ToR. Direct and indirect impacts associated with the project have been considered. Avoidance, mitigation and management measures are proposed. Costs associated with the measures are included within the project costs. It 8. Potential impacts in relation to build write measures are included within the project as a address in the draft EIS. The proponents are involved in monitoring and reporting programs within the Fitzory Basin and contribute to the orgoing collection of data and assessment of water quality in the cathement. The Project will include costention for the development of water quality in management plans and these will include costate from of related the time of development as applicable.	15. Volume 1, Chapter 6 Flora, Section 6.3.4 Volume 1. Chapter 7 Aquatic ecology, Section 7.3.10 Volume 1. Chapter 23 Environmental management plan, Section 23.5.1 B. Volume 1. Chapter 7 Aquatic ecology, Section 7.2.2 Volume 1. Chapter 11 Water quality, Sections 11.2.3, 11.2.4, 11.2.5 and 11.3.2	nia
		Aquatic ecology (continued)	 The lock is in a configuration known to work (although physical model studies are required to assist with refinement of entry / exit conditions and sedimentation management) 	19. Given the lower reaches of river system, proximity to the delta (limiting the 'normalisation' of water before it reaches the already truncated tidal zone – Fitzroy barrage roughly halved the ~100k tidal zone) and scale of the expected inundated riverine habitat, occurring as it close along the largest river basis entering the GBR lagoon, the negative impact and inability for effectively offsetting, mitigating or replacing, is of the greatest environmental concern. A true assessment of the 'natural values', ecosystem services, natural productivity, potential negative economic 'externatilies along with alternative water security strategies is a must before approvals and possible terminal harm is down to water, soils, and the Creat Barrier Reef. 20. Ecen Bann fish boch 'rown to work needs greaters tavidy and justification before any attempt to implement and install additional larger locks at Eden Bann and Rookwood. The expensive experience of Paradise Dam and the continuing puzzle over how to fix the Fitzroy barrage fishway must be solved before any additional barrier to fish migration/reproductive fertility is approved.	Proponent to provide response	19. Assessment of potential project impacts including downstream of the project areas and on the GBRWHA is included in the draft EIS in accordance with the ToR. 20. Fishways are designed in accordance with best available information and proposed to be implemented in conjunction with monitoring programs inclusive of adaptive management provisions. DAP guidelines and recommendations have been considered and adopted as appropriate and are reflected in the proposed mitigation and management measures. As appropriate management plans are updated in the additional information to the draft EIS.	20. Volume 3, Appendix X Fish passage technical report	n/a

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029.09		Terrestrial fauna - birds	8.2.2.2 • A bial of 98 bird species from 41 families were recorded in wet and dry season surveys at Eden Bann Weir study area and 133 bird species from 50 families were recorded during the wet and dry season surveys within the Rookwood Weir study area. This comprised a range of different bird groups including waterbirds, raptors, parrots, forest birds, grassland birds, open woodland birds and nocturnal birds. • Three threatened species were encountered during surveys at both Eden Bann Weir and Rookwood Weir. The southern sub-species of squatter pigeon (Geophaps scripta scripta), listed as vulnerable under the EPBC Act and the NC Act, was encountered on several occasions in woodland habitats with a grass understorey. The black-necked stork (Ephippiorhynchus australis) (Figure 8-9) and the black-chinned honeyeater (Meltifineptus albogularis), both listed as near threatened under the NC Act, were also observed during field surveys. In addition to these three threatened species, the cotton pygmy-goose (Netapus coromandelianus), listed as near threatened under the EPBC Act and the NC Act, was observed at Rookwood Weir.	 Impact on birds (depending species mix, population/ competition) will vary in complex unpredictable ways. Loss of current riparian trees with overhanging branches is likely to put pressure on smaller species with encouraging more ware birds. Loss of sections of natural sedges potentially being replaced by bare or noxious weed infested banks will put pressure on bird feeding, nesting and protection sites. Turnet builders such as pardialotes and bee-aeters could be impacted if there is a loss or loss of stability of high site stream banks. Birds which use the lower grassy banks or sand gravel beds will lose resting areas, in stream refugia and potentially nesting sites. The main concerns are associated with the changes to water quality and depth and consequent variation in supply and type of food from herbivorous water birds seeming aquatic plants, macro- invertebrate, fixin, forg seeking species. These impacts are more diffuse and externely difficult to predict and manage for a whole of bird species management plan than a simplisite assessment of some habitat and other pressures on the small number of listed species. Thrests from these, incidents, turbidity changes (more sity, lower oxygem, deep colder water) reducing access to food; conversely excess sit deposition caused by increased asility risk from value table changes, inrigiton on under find species maters like terns, but this effect is shortlived if the natural fish species mix becomes dominated by catfish (already the case since the barrage) of harder to swallow invasive Tilapia. 		1 7. An assessment of potential impacts on bird species in accordance with the requirements of the ToR is included within the draft EIS. Miligation and management measures are proposed, including for water quality.	1 7. Volume 1, Chapler 8 Terrestrial fauna, Sections 8.2.1, 8.2.2, 8.3.5 and 8.3.6 Volume 1, Chapter 23 Environmental Management Plan, Sections 23.5.1 and 23.5.2	n/a
029.10		Mammals	8.22.3 • Twenty-eight mammal species were detected during field surveys at Eden Barn Weir including five introduced species and two conservation significant species: the life pied bat (Chalinolous picatus) and the echidna (Tachyglossus aculeatus). Forty-two mammal species were recorded during both the wet and dry seaons surveys at Rookwood Weir including eight introduced species and two conservation significant species: the little pied bat and echidna. Indirect evidence of koalas (Phascolarctos cinereus) in the form of faecal pellets was observed within both the Eden Bann Weir and Rookwood Weir study areas.	1. As with bird species and populations, the main concerns are the alterations and loss habitat 2. Large mature trees within the inurdation zone will be prone to death and collapses with the consequent loss of onesting holitows, flowers, seeds, and insect food sources for some species. 3. Wider stretches of river over an additional 100 kilometres and loss of shallow river crossing zones fooding of miss tream sites will buy to pressure on smaller species and forour larger predators and feral animals especially pigs which will prosper from the increased extent of the water body, (e.g. the flooded side guilles will become perfect hiding and brooding places for pigs, thus putting more pressure on the wider landscape and other mains' through fouling of water, increased bank erosion. 4. The Fizzory óparian corridor forms one of the last remaining remnant biodiversity corridors connecting the inland ranges with the coastal ecosystem. The reduction of this corridor from the weirs will add unacceptable pressure on species, including Koala.	Proponent to provide response	 4. An assessment of potential impacts on mammal species in accordance with the requirements of the ToR is included within the draft EIS. Mitigation and management measures are proposed. 	1 4. Volume 1, Chapter 8 Terrestrial fauna, Sections 8 2 2, 8 3 5, 8 3 8, 8 3 8 Volume 1, Chapter 23 Environmental Management Plan, Sections 23 5.1 and 23 5 2	n/a
029.11		Reptiles	Outensland Brigalow Belt Reptile Recovery Plan (Richardson 2006). The plan identifies a number of threats to reptiles of the Brigalow Belt, including the following that are relevant impoundment associated with the Project: o Loss of habitat due to clearing and thinning o Hydrological changes o Removal of woody debris and rocks * The plan recommends a halt to clearing and fragmentation in the vicinity of significant populations or the presence of key habitat.	1. Reptiles will experience positive and negative impacts from increased water availability though with some loss of riparian habitat. 2. Water dragons and skinks may prosper as may Keelback snakes especially if cane toad (Rhinelia marina) fourish 3. The caution is expressed in the Queensland Brigalow Belt Reptile Recovery Plan. 4. There needs to be a stronger ecosystem health monitoring regime using reptiles as a indicator (losseline and if approved part of the environmental management plan) 5. The option for reptiles to either drown in weir locks or use locks and turtles ways for increased amuch predation should be assessed.	Proponent to provide response	 - 5. An assessment of potential impacts on reptile species in accordance with the requirements of the ToR is included within the draft EIS. Mitigation and management measures are proposed. 	1 5. Volume 1, Chapter 8 Terrestrial fauna, Sections 8.2.2, 8.3.5, 8.3.6 Volume 1, Chapter 25 Environmental Management Plan, Sections 23.5.1 and 23.5.2	n/a
029.12		Amphibians	8.2.2.5	Water flow, water quality changes and shape, size and depth of water bodies will be altered with the building of the weirs. Loss of ripatian sedges and trees may reduce habitat for both tree and ground dwelling frogs. J. Dorwing of large areas of and and gravel beds will permanently destroy extensive burrowing frog habitat. Large increases in areas of lower quality, still water will favour Cane Toads. Probable shift in bird populations from smaller species (like honeyeaters) to larger frog predating species will put further diffuse pressure on amphibians. Fortbisen, pasticide, nutrient run-off if intensive agriculture ever proved viable would increase risks of deformity and species pressure. T. Fertlisen, pasticide, nutrient run-off if intensive agriculture ever proved viable would increase risks of deformity and species pressure.	Proponent to provide response	1 5. An assessment of potential impacts on amphibian species in accordance with the requirements of the ToR is included within the drat EIS. Mitigation and management measures are proposed. 6. and 7. Assessment of consequential impacts from potentially lacititated agricultural development on NMES was presented in the Volume 2 of the draft EIS in accordance with the ToR. Clarifications are provided in the additional information to the draft EIS regarding potential change in agricultural land uses and impacts that have the potential arise and affect MNES.	1 5. Volume 1, Chapter 8 Terrestrial fauna, Sections 8.2.2 and 8.4 Volume 1, Chapter 23 Environmental Management Plan, Sections 23.5.1 and 23.5.2	6. and 7. Chapter 8 Water quality. Section 8.2 Chapter 11 Consequential impacts

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029.13		Biodiversity	Back on Track Biodiversity Action - 8.2.2.6 Plan species • The purpose of the biodiversity is plan is to: identify priority threatened species for the Fizroy NRM region so that resources for covervation and management effort can be focussed and effective o Provide a framework to direct management and research as well as a strategic approach to address threats to species recovery o Raise avareness to a broader range of threatened species and threatened species issues o Guide regional investment on biodiversity conservation and ensure progress bwards the targets of the FBA Central Queensland Strategy for Sustainability: 204 and Beyond Plan	1. Federal and Queensland government strategies and investment for biodiversity protection and resilience generally state aims of no more species extinctions, no net loss of biodiversity and better science to understand ecosystem health, species recovery. 2. The LFIP lack may substantial scientific research or monihoring investments and fails to clearly acknowledge the degree of pressure the further segmentation of this essential riverime and ripatian healthat, not just cliently dependent paces about the functional process but ecological health as well as a grinultural and fahery sustainability through the Basin and Southern Creat Barrier Reef. 3. A more detailed economic study must be done to include the potential loss of intrinsi: value as well as the changes in the value of the ecosystem services of a naturally flowing (within the limits of an already heavity cleared, segmented Basin) compared to the cost of the loss of ~ 1.3 of the remaining lower Fitzory to impoundment. 4. Never fitzory to impoundment. 5. Nistory of decision making based on limited baseline ecosystem knowledge, inadequate research, failure to properly understand and value ecosystem knowledge, inadequate research, failure to properly understand and value cosystem knowledge, indequate impacts and should not proceed unless capable to passing independent peer retwee with many nations now removing invert barriers and improving water use technologies. Unless this is done all biodiversity action, the investment in biodiversity fincing, land management practices and policies will be undone.	Proponent to provide response	 Noted. The draft EIS acknowledges Commonwealth, State and local government strategies, initiatives and programs and endeavours to support practices as appropriate to the potentia impacts arising from the project. The proponents have committed to a range of milgation and management measures in line with recommendations and practices from Commonwealth, State and local government publications. Significant diset contributions are proposed in accordance with legal requirements. Environmental management measures in ine sponse to potential project impacts an included within project cost estimates. Volume 20 the draft EIS addresses indirect project impacts in the downstream and estuarine/marine areas in accordance with the ToR. The draft EIS is considered to adequately address project impacts in accordance with the TAR Milgiation and success are proposed, along with offsets as applicable. Commitments are made with regard to additional studies and surveys to supplement the draft EIS assessment relative to the stage and timing of development. The draft EIS addresses the ToR. Cumulative impacts are addressed. 	Volume 1, Chapter 6 Flora Volume 1, Chapter 7 Aquatic ecology Volume 1, Chapter 7 Arenstial Isuna 2. Volume 1, Chapter 23 Environmental Management Plan Volume 2, Chapter 14 Offsets 3. Volume 1, Chapter 19 Economics 4. Volume 2, Chapter 10 Threatened species and ecological communities Volume 2, Chapter 11 Migratory and marine species 5. Volume 1, Chapter 21 Cumulative impacts	nia
029.14		Introduced species	8.2.2.7 • Table 8-12 Introduced terrestrial fauna species	 Unnatural water impoundments generally favour all or the listed feral species and put pressure on species adapted to the historical riverine system wets and drys. This increases competition and predation of native species and the EIS barely acknowledges the problem or suggests solutions. 	Proponent to provide response	Pest and feral animal management is addressed in the draft ES. Mitgation and management is proposed. – Weed management would be undertaken with reference to relevand Queensiand and local government legislation, guidelines and plans including: LP Act; Plant Protection Act 1999; Biosecurity Queensland policies and guidelines; DAFT set factsheets; RRC Pest Management Plan 2012-2016; and CHRC Draft Area Pest Management Plan 2012-2	Volume 1, Chapter 8 Terrestrial fauna, Section 8.3.8 Volume 1, Chapter 23 Environmental Management Plan, Sections 23.4.3 and 23.5.1	nia
029.15		Terrestrial fauna - impacts	 8.3 Potential impacts and mitigation measures - 8.3.1 Overview. Activities associated with raising Eden Bann Weir and constructing Rookwood Weir have the potential to cause a number of direct and indirect impacts on local terrestrial fauna. As the infrastructure already exists, potential impacts associated with raising Eden Bann Weir are likely to be lower in magnitude and significance than developing a greenfield site at Rookwood 	1. Nost of the EIS relates to limited standard wildlife risk practices and not to the much more difficult and probably unachievable flow diversion matters. Unless there is a requirement for impoundments to include bypass channels, rather than highly engineered locks or ramps project approval and completion should dearly acknowledge the seriousness of the ecological consequences. 2. The acknowledgement that the "greenfield" site of flox/words has a higher magnitude of impact is noted; this substantiates the concerns through this submission that if water security become a critical community survival issue it would be sensible to review the Fitzroy barrage and Eden Bann options on already highly modified section of river and areas that have at least grower through a period for some ecosystem stabilisation and adaptation, rather than the vey large Rockwood component. (Have personally whitses do the efficiency is provided and the induction of the Dawson-Mackenzie: the normally unvide the concease consistency, the perpetual inundation up to and beyond this junction has the potential to massively reduce water quality and increase so lices along some of the more productive part of the lower catchment.	Proponent to provide response	 Fishways and turtle ramps are designed in accordance with best available information and proposed to be implemented in conjunction with monitoring programs inclusive of daptive management provisions. DAF and DEHP guidelines and recommendations have been considered and adopted as opporprist and are reflected in the proposed mitigation and management measures. As appropriate management plans are updated in the additional information to the draft EIS. Assessment of alternatives considers storage from the Fitzro y barrage and Eden Bam. Wari alone will not provide the volumes of water prodiced to be required to achieve medium to long-term water security in the region. 	 Volume 3, Appendix X Fish passage technical repo Volume 3, Appendix M Fitzroy River turtle (Rheodyles leukops) species management program Volume 1, Chapter 1 Introduction, Sections 1.4 and 1.6 	rt n/a

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029.16		Fauna injury and mortality	 8.3.2 Individual fauna injury and mortality & 8.3.2.1 Potential impacts. • Fauna at particular risk of vehicle strike include the squatter pigeon, echidna and regities such as the black-heade python, angle bython and bearded dragon that commonly occur on tracks throughout the region. • Small terrestrial animals within the impoundments such as skinks, geckos, rodents and juvenile animals in nests or borrows, may be trapped by rising water and be injured or drowned • Vegetation is expected to re-establish on riverbanks at the full supply levels and loss of vegetation from within the impoundment (Section 8.3.4.2) will deter use of the impoundment foraging and breeding by terrestrial fauna species. The water levels within the existing Eden Bann Weir impoundment already and this cycle will continue and is unlikely to have a notable long-term impact on terrestrial faunal assemblages upstream. 	1. Fauna deaths from construction and initial filling while of concern probably is less of a species thread than the habital toss and changes. 2. Vegetation adapted to certain soil types and moisture saturation and flowflood patterns cannot be assumed to 're-establish on riverbanks at the full supply levels'. Many species are adapted to certain patterns and worth necessarily regenerate at all or in balance along a higher point in the river channel zone. This zone will also be reduced in width due to higher pondage water levels and tress can't imgeter down that river levens on the allowing plann, only table because of sollmoisture types but by land uselgrazing regimes which allow clearing of ter-growth. 3. Tidal zones of weits and dama commonly become weedly, outcompeting or reducing recultment of native trees and esgles, exuit grasses like Buffel, Guinae, Para, Hymenachne etc, will also enduce the sike appetratixe, which might survive more permanent root zone inundation. 4. The EIS does not appear to recognise the length of time a riparian corridor need to become a diverse stable community – i.e. beyond the estimated 100 year life of the weirs. If properly assessed and costed, a monitoring, mitigation or restoration program would add substantial costs to the Project.	Proponent to provide response	1. Noted. 2. and 4. Regeneration of the riparian areas is evident from the existing Eden Bann Weir and Fitzory Barrage. 3. Wend and pest management planas are discussed in the draft EIS. Wead management vould be underkan with reference to relevant Queensiand and local government legistation, guidelines and plans including: LP Act, Plant Protection Act 1999; Biosecurity Queensiand policies and guidelines: DAFE past fachetes: RFC Pest Management Plan 2012-2016; and CHRC Draft Area Pest Management Plan 2014-2	3. Volume 1, Chapter 23 Environmental management plan, Sections 23.4.3 and 23.5.1	n'a
029.17		Habilat degradation	8.3.7 Degradation of habitat & 8.3.7.1 Potential impacts. Based on field observations, the largest contributors to habitat degradation within the Edea Bann Weir and Rookwood Weir study areas are historic land clearing associated with agriculture, livestock (within the riparina zone and in shallow water areas), feral animals (Section 8.3.8) and weeds. Construction activities have the potential to introduce and / or spread weeds, which can increase the edge effects associated with vegetation clearing. Generally, the landscape surrounding the site of Eden Bann Weir and Rookwood Weir is highly fragmented, and as such, isolated patches of vegetation are presently exposed to these processes. Earthworks and increased vehicle movements associated with construction activities at the weir site have the potential to exacerbate local levels of weed infestation.	1. The EIS acknowledges the legacy of land clearing in the study areas (though not necessarily the perinent issues of whole of Basin clearing, a matter of clear focus by UNESCO World Hentage Committee, GRR Strategic Assessment and the various Reef rescue plans stemming from these) 2. Weed spread through construction while noted as a risk is instificiently assessed long term. 3 OI note is the comment 'the landscape surrounding the site of Eden Bann Weir and Rookwood Weir is highly fragmented 4. This necessitates a more thorough assessment of the viability of case for intensification of agriculture as part of the economic fleasbilly statements. Appendix B shows a brief analysis of the study. Land subtably for imgated agriculture as one flectory Nevr IA. Forster and M.A. Sugars 2000. https://publications.gl.gov.au/dataset8oisi-lowen-fizzor/wrev.fz. 5. Orly about 3% of the land in the area of study appears, without moderate, severe limitations, suitable for sustainable agriculture. Almost 180 000 Ha is classified by soil type 5 – 'unsuitable – adreme limitations'.	Proponent to provide response	 Noted. Construction activities are managed by a construction environmental management plan that will be based on the project environmental management plan. Weed and pest management measures are included. Construction areas are opcosed to be related to the project. Noted. The Project area is highly fagmented as a result of existing land uses and not as a result of the project. S and 6. Aprolumal development and investigations into soil suitability for agriculture is not the scope of the project. Various State and regional stakeholders, including the Growing Central Queensiant Inhiste have and are progressing analysis in this regard; refer to http://idafow.com.au/growing-central-queensiand 	2. Volume 1, Chapter 23 Environmental management plan, Section 23.4.3, 23.4.8 and 23.4.11	Chapter 8 Water quality, Section 8.2 Chapter 11 Consequential impacts
		Habitat degradation continued		7. The first of these will threaten the remnant habitat patches and corridors as well as add soil loss risks to the river and GBR. The second will exacerbate the risk of phosphate leading into ground water and nitrogenous run off into and beyond the estuary. 8. The best management and mitgation plans for the direct inpact of the weirs cannot scratch the surface of the agricultural intensification risks. 9. Without fully assessing the direct and consequential economic and ecological costs of the aspect of LFIP, the business case has to stand or fall on the supplementary water supply for industrial and urban use.	Proponent to provide response	7. and 8. Consequential impacts on MNES arising from potential agricultural development. Including sediment and nutrient impacts on water quality, are addressed in the draft EIS na accordance with the ToR. Additional assessment and analysis is presented in the additional information to the draft EIS. The project is proposed in the context of providing a solution towards regional water supply security. 9. Consideration of potential future industrial urban and agricultural addivites is being considered. The staging of the project will allow flexibility to respond to changes in timing and demand growth. This will ensure that the infrastructure developed is sustainable in terms of performance (viel) and cost, indusive of social, cultural and environmental considerations.	7. and 8. Volume 2, Chapter 12, Section 14.4.2	Chapter 8 Weter quality, Section 8.2 Chapter 11 Consequential impacts
029.18		Offset -financial	22.3.3.2 Financial offset proposal • Offseting of impacts to aquatic habitat is proposed through the application of a financial offset.	 A financial offset can only effectively be applied to research and improved monitoring / compliance situations. A loss of a major riverine habitat cannot be practicably offset and therefore loss should be avoided. 	Proponent to provide response	The financial offset proposed is subsequent to the provision of mitigation and management measures being implemented.	n/a	n/a

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029.19		Economics	E3.16 • The economic assessment identified that the primary benefit of the Project is an increase in the availability of high priority (high reliability) water. Other benefits include the reduced need for water management and configency strategies due to periods of supply shortfall and an increase in employment and use of local suppliers during construction. • The benefit cost analysis found that all the Project development stages that were considered provide a net gain to society. The benefit cost analysis environmental impacts associated with management, milgation and offsetting environmental impacts associated with management, milgation and offsetting sustainable development (ESD) demonstrates that the Progonents have incorporated evelopment (ESD) demonstrates that the Progonents have incorporated evelopment (ESD) demonstrates that the Progenet and development onstruction, operation and decommissioning of the Project. An iterative planning approach has been taken to the design and development of the Project, integrating both environmental and social considerations into decision making for the Project and supporting the objectives of ESD.	 The EIS should more honestly and clearly that the high priority water is for industry and that the case for an agricultural corridor is like the landscape 'marginal' of with severe limitations. Without considering the true value of a naturally 'flowing river systems' (a teacher to be a naterady segmented system) the statement about height is osciely' cannot be justified. Iterative designs and adaptive management concepts give a false or misleading hopse that should the ecological impacts prove greater than anticipated or the economics unstainable, the subsequent building of bypass channels to re-create a semblance of a natural system, or weir removal altogether are unlike to even happen. Even if they were removed or totally redesigned, it is probable that very long term changes will have happened to merime and ripation habitats and potential pushed already vulnerable species like Rheodytes into extinction. 	Proponent to provide response	1. The draft EIS is clear as to the use of water for industry as is clear through the Fizzoy WRP that provides for an allocation of 30.000 ML (of the 76.000 ML) being made available to GAWB for industrial purposes. Consideration of potential future industrial, urban and agricultural activities is being considered for the allocated 42.000 ML. The staging of the project will allow flexibility to respond to changes in timing and demand growther. This will ensure that the infrastructure developed is sustainable in terms of performance (viel) and cost, inclusive of social, cultural and wincommental considerations. 2. It is considered that the draft EIS and additional information presented provide a fair account of the existing environmental values of the project area and potential project impacts on these values are accurately reflected. Reasonable and agrinal miligation and management measures, and when a dadition to the ability to dagtively manage, update design and augment infrastructure are included in the SMP and have been discussed with DEIP. These measures are proposed in management measures being employed.	n/a	nia
029.20		Agricultural development	 19.3 Project benefits & 19.3.1 Increased ability to satisfy water demand. High priority water will be sold primarily for industrial and urban/residential uses and potentially some agricultural development (These benefits will be realised once the development is complete (i.e. from Year'3 onwards). During operations the availability of additional high priority water is expected to deliver regional benefits to business and industrial development, the specification of the Project is to provide water security for urban growth and industrial development, pus potential for thure agricultural development, thich will provide an overall benefit for the region through business and employment opportunities and increased economic activity. 	 While industry is acknowledged as the primary user the statements about 'potential for future agricultural development' are highly speculative given the limitations noted previously 	Proponent to provide response	Noted.	n/a	nia
029.21		Ecology and environment impacts	19.3.5 Ecological and social impacts. • For the purposes of the economic assessment, the BCA does not: • or unantify any additional impacts on the ecology and environment of the area, beyond those which have been avoided, mitigated, managed and/or offset (through measures such as the species management program (SMP) for the Fitzor Neve truthe, the provision of fish passage and the provision of other environmental offsets) • O Quantify any additional social impacts beyond those which have been avoided, mitigated, managed and/or offset (for example, implementation of indigenous cultural heritage management plans, upgrades to river crossings and roads, and compensation in relation to land impacts).	 This is a fundamental (failure to quantify impacts on ecology and environment). The initial FIISFAP from 8-10 year ago costed new river crossing as being in access of \$8M (Riversleigh). EIP adds replacing Glenroy and Foley vale, presumably included in the \$400 000- price tag, but does not add the cost of other infrastructure private and public investment necessary to make the agricultural corridor part of the business case meaningful. 	Proponent to provide response	 It is considered that project-telated impacts and the necessary mitigation, management and offset requirements are addressed and included as project costs within the economic assessment in accordance with the ToR. Agricultural development is not the scope of the project. Various Salte and regional stakeholders, including the Growing Central Queenslant Initiative have and are progressing analysis in this regard; refer to http://rdafcw.com.au/growing-central-queensland 	n/a	Na

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029.22		Economics	19. Economics Residual value 25 yr The need to develop a strong, growing and diversified economy The analysis of the core objectives and principles of ESD in demonstrates the Proponent's commitment to incorporate sustainability considerations throughout design, construction, operation and decommissioning of the Project. In conclusion, this EIS demonstrates that an lerative planning approach has been taken to the design and development of the Project, effectively integrating bit environmental and social considerations into decision making for the Project and supporting the objectives of ESD.	Stanwell Power station water requirements use in 25 years?? ~ end of current engineered life span let alone alternative energy likelihoods – maybe the water and food security issues could be met from the (?) Sharwell pojeline costs included (construction and operation) Operating/pumping costs for industrial and ruban supply as well as costs and maintenance of assumed agricultural users need more assessment) A 'Transition to sustainable industry agriculture urban consumption options for alternative water harvest and efficiency not explored Sink that cost water won't give Gladstone rind cost effective supply E. Extrem risk that agricultural water will be too expensive and ecologically harmful (saline soits, limited patches, compared to potential for continued improvement in soil health and ground cover management compatible with nature conservation Summary needs more substantiated beyond platitudes.	Proponent to provide response	 The staging of the project will allow flexibility to respond to changes in timing and demand growth. This will ensure that the infrastructure developed is sustainable in terms of performance (yield) and cost, inclusive of social, cultural and environmental cosiderations Noted. Not within the scope of the project. These elements have been included within the assessment undertaken for the GFP and would be included within assessments undertaken for phores should such infrastructure be required. The project proposes supply of water through run-of river means for abstration either purposes of the draft EIS. Not within the purposes of the draft EIS. Not within the purposes of the draft EIS. Not within the scope of the Project TOR. GMP has however undertaken separate analysis and assessment in this regard. Refer to thip.//www.gavb.dig.gov.au/strategive.water.plan1 Various State and regional stakeholders, including the progressing analysis in this regard; refer to the/lividiacy.out.gurgue.guest	n'a	n'a		
029.23		Biological diversity	Table 19 - 10 Comparative analysis of the NSED core objectives To protect biological diversity and maintain essential ecological processes and life support systems where there are: o threats of serious or inversable environmental damage, o lack of full scientific certainly o should not be used as a reason for postponing measures to prevent environmental degradation	 Aside from a brief mention about weirs enabling better 'environmental flow 'management, an (argument as fragile as the Flizroy corridor solis) the project is difficulty to perceive as contributing to 'biological' diversity and maintain essential ecological processes and life support systems' o If built and intensification of argriculture enabled the threats of serious or irreversible environmental damage would appear manifest. Othout and the are dated and limited in scope and validation so the case for 'full scientific certainty' has not been made Offsets – riverine, riparian and specialised endemic species cannot be offset elsewhere or financially compensated for or tokenistic added to 'research and habitat restoration' 	Proponent to provide response	The objective or guiding principle aims to 'protect biological diversity and maintain essential ecological processes and life- support systems'. The project environmental management protect biological diversity during the construction and operation phases of the Project. Where significant residual impacts have been identified offsets are proposed. In conjunction with the project environmental management plan, environmental flows will be maintained though water releases from the weirs. This will maintain river health.	n/a	n/a		
029.24		Sustainable development	19.5 Sustainable development The three core objects of ESD, as outlined by the NSESD, are: or To enhance individual and community well-being and welfare by following a path of economic development that safeguards the welfare of future generations or To provide to requity within and between generations or To provide to focyical diversity and maintain essential ecological processes and life-support systems.	Alternatives to LFIP have not fully considered Argunate of the second	Proponent to provide response	 Alternatives to a strategic regional water supply solution have been investigated (CQRWSS) and project-specific alternatives have been considered and are reported in the draft EIS. Securing a regional water supply bogether with mitigating and managing environmental impacts will facilitate that the project does not reduce or degrade the health, diversity and fourdurity of the environment or a variesely affect current and future generations while provide opportunities for economic growth. Refer to 029 23. 	1. Volume 1, Chapter 1 Introduction Sections 1.4 and 1.6	n/a		
029.25		Economic impacts	 19.4.1 - Summary of economic impacts Rookwood Stage 1 and the existing Eden Bann Weir stage 1 being considered the most preferred when considering only the provision of unallocated water held as strategic water infrastructure reserve, with this scenario delivering the highest NPV (\$453,568,000) and BCR (3.10) Rookwood Vieir Stage 2 and Eden Bann Weir Stage 3 being the most preferred, when considering estimated theoretical high priority yields, delivering a slightly higher NPV (\$912,907,000). 	1. 'Natural values' (habitat, connectivity, Water Quality algal blooms weed control , GBR impacts) ignored or dismissed as negligible, or manageable 2. EIS needs to have independent analysis of minimal options (Eden Bann 2.3 alone, barrage enhancements, unallocated supply for ther sources CSG RO, treated mine water, Paradise Dam under-utilised supply, other?) 3. Needs proof that the enhanced water security is absolutely necessary without the massive disturbance to natural system finom Rookwood. Needs research into his: 4. Cost of increased emissions of Mathane and Hydrogen subhide from drowned vegetation and saganarkisom forwing water. 5. Similarly to the officially dismissed scope three Greenhouse gas emissions for fossil fuel use, there should be at least an achorwhagement of the GH (singacst inducing - ve and -ve implications for soil carbon of the suggested industrial and agricultural end uses of water from the project.	Proponent to provide response	Environmental costs are included within the economic assessment. The draft EIS addresses the project ToR. Consideration of project atlematives are discussed. S. The need to secure a regional water supply is recognised (CQRWSS). The staging of the project will allow flexibility to respond to changes in timing and demand growth. This will ensure that the infrastructure developed is sustainable in terms of performance (yield) and cost, inclusive of social, cultural and environmental considerations. A. Addressed in the draft EIS. S. The draft EIS has addressed the ToR.	2. Volume 1, Chapter 1 Introduction Sections 1.4 and 1.6 4. Volume 1, Chapter 13 Greenhouse gas emissions, Section 13.1.3	n/a		

		D	raft EIS Submission Register - Lower Fitzroy River Infrastructure Pro	ject (July - August 2015) FOR AEIS REPORT REV 0		Proponent to complete		ter and section Relevant AEIS report chapter and section nla nla atic ecology vironmental management Chapter 5 Fitzroy River turtle and white-throated snapping turtle Chapter 12 Environmental management plan Appendix E Fitzroy River turtle and white-throated snapping turtle sets, section 14.3.3 Appendix E Fitzroy River turtle and white-throated snapping turtle sets, section 14.3.3 Appendix E Fitzroy River turtle and white-throated snapping turtle sets, section 14.3.3 Appendix E Revised draft environmental management plan Appendix C Offset proposal for the Fitzroy River turtle and white-throated snapping turtle Chapter 3 Legislation, regulatory frameworks and project approvals, 1 nla	
Sub and Issue No	Submitter	Issue - Category	Issue - Details	Submitter Recommendations / Suggested Mitigation	Direction to Proponent	Proponent response	Relevant draft EIS chapter and section	Relevant AEIS report chapter and section	
029.26		Offsets - staging	22.3.3.3 Offset staging There is yet to be a decision on the order or composition in which the proposed developments will proceed.	 Adds concern the draft EIS has been released to capitalise on anticipated creation of northern development funding sources 	Proponent to provide response	The need to secure a regional water supply is recognised (CQRWSS). The staging of the project will allow flexibility to respond to changes in timing and demand growth. This will ensure that the infrastructure developed is sustainable in terms of performance (yield) and cost, inclusive of social, cultural and environmental considerations	n/a	n/a	
029.27		Fitzroy River Turtle	22.4 Summary. A significant residual impact has been identified for the FRT	 The risks even with research and nest protection programs for the Fitzroy River Turtle can in now effective manner counter the loss of the oxygenated pools/riffle zones lost to weir inundation over 100-kilometes. What practical steps and financial steps will be set aside in the event that weirs and subsequent agricultural water use indicates the species is being pushed towards extinction? 	Proponent to provide response	Addressed in the draft EIS and further commitments included in the additional information to the draft EIS, including monitoring programs and allowances for adaptive management.	Volume 1, Chapter 7 Aquatic ecology Volume 1, Chapter 23 Environmental management plan Volume 2, Chapter 10 Threatened species and ecological communities Volume 2, Chapter 14 Offsets, section 14.3.3 Volume 3, Appendix M Fitzroy River turtle (Rheodytes leukops) species management program	Chapter 5 Fitzroy River turtle and white-throated snapping turtle Chapter 12 Environmental management plan Appendix E Fitzroy River turtle and white-throated snapping turtle species management program Appendix F Revised draft environmental management plan Appendix G Offset proposal for the Fitzroy River turtle and white-throated snapping turtle	
029.28		Regulated vegetation	22.4 Summary. Whilst impact to a second matter, regulated vegetation, will occur, the prescribed activity is exempt and an authority is not required. As such a condition requiring an offset cannot be applied under the EO Act in this regard.	1. Refer to regulated vegetation maps and impossibility of replicating soil type and surface, subsurface water/moisture, nutrient and associated complementary floral and faunal diversity to offset loss. The exemption of the prescribed activity needs further explanation and legal / policy clarification or change. Refer to Map Appendix C showing regulated vegetation within or rimmediately adjacent to much of the proposed Weis imundation zone. A similar pattern (though already modifies by the existing inundation is mapped for the Eden Bann area.	Proponent to provide response	Legal obligations are addressed in the draft EIS and offsets as necessary and applicable are included. Community infrastructure designation provides for exempt development and is addressed in the additional information to the draft EIS.	Volume 1, Chapter 3 legislation and project approvals, Sections 3.3.18 and 3.3.21	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.4	
	The Capricorn Conserva suitability for irrigated ag	tion Council provided riculture along the Fitz	documentation (and a map) attached to their submission which consisted of, CC roy River 'pie chart' (Appendix B) and a map showing the regulated vegetation of	C's submission on the Agricultural Competitiveness Green Paper submitted on 12/12/2014 (Append f the Rookwood area (Appendix C).	ix A), Land	Noted. Not within the scope of the project ToR.	n/a	n/a	
0.30.01	Department of Education & Training (Training and Skills Investment)	Social - Workforce and Procurement	The Queensland Government's Building & Construction Training Policy requires that all Queensland Government agencies (including Government owned corporations and Statutory Bodies) apply the Queensland Government Building and Construction Training Policy to eligible infrastructure projects.		Proponent to note	Noted.	n/a	n/a	
0.30.02		Social - Workforce and Procurement	DET maintains a register of indigenous owned businesses delivering services across Queensland called the Black Business Finder.		Proponent to note	Noted.	n/a	n/a	
031.01	WWF - Australia	General comment	The proposal and associated documentation do not meet current standards for good water infrastructure planning and management, nor do they meet government legislative and policy requirements. Courts have recently overturned development decisions due to failures to meet legislative requirements. To avoid a similar situation occurring, WWF-Australia recommends the issues highlighted in this submission are fully addressed before assessment of the proposed LFRP proceeds further.	The draft EIS for LFRIP is significantly deficient and fails to comply with legislative and policy requirement of both the Australian and Queensland Governments. The draft EIS should be rejected. It will require substantial amendment to fully identify impacts and set out means to ensure these impacts will be managed to achieve a net benefit to the Great Barrier Reef as a matters of national environmental significance, as well as to its Outstanding Universal Value.	Proponent to note	Noted.	n/a	n'a	
031.02		Net benefit failure	Under the Reef 2050 Long Term Sustainability Plan (Reef 2050) and the GBR Strategic Assessment Program, the Queensland and Australian Governments have committed to implementing a wide range of actions to address UNESCO's concerns regarding the declining condition of the Great Barrier Reef World Hentage Area (GBRWHA). One of the key Queensland and Australian Government commitments under these initiatives to address UNESCO's concerns is to ensure that development actions in Reef catchments deliver a 'net benefit the Great Barrier Reef (Reef 2050: EHA&, EHT 4 and EBT3') to enhance the condition of matters of national environmental significance, including the Reef s Outstanding Universal Value'. Despite this clear commitment, the proponent has failed to demonstrate in the ES how the proposed project will provide a net benefit that enhances the condition of MNES and the OUV of the Great Barrier Reef World Hentage Area. The requirement for development projects to deliver a net benefit to enhance the condition of the CBRWHA is demonstrated in the recent approval under the EPBC Act of the AQUIS development project near Cairns (EPBC 2014/7169).	To comply with government commitments and policy settings, the proponent must demonstrate that the LFRIP will provide a net benefit that enhances the condition of MNES and the OUV of the GBRWHA.	Proponent to provide response	Potential impacts on and to the GBRWHA are addressed in the draft EIS, including mitigation and management measures to protect ecosystem health and considers cumulative effects. Further assessment of potential provided in the additional information to the draft EIS together with environmental management measures.	Volume 2, Chapter 9 World Heritage properties and National Heritage places Volume 2, Chapter 12 Curulative and consequential Volume 2, Chapter 13 Environmental management system	Chapter 8 Water quality, Section 8.2 Chapter 12 Environmental management plan Appendix F Revised draft environmental management plan	

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Sub an Issue N	d Submitter	Issue - Category	Issue - Details	Submitter Recommendations / Suggested Mitigation	Direction to Proponent	Proponent response	Relevant draft EIS chapter and section	Relevant AEIS report chapter and section
031.03		Consequential impacts assessment	In 2003 and 2004, the approval of the Nathan Dam on the Dawson River in Central QLD under the EPBC Act 1999 was overturned by the Courts because the Minister had not considered the consequential impacts to the GBR from the use of water provided from the dam. If constructed, water supplied from the Nathan Dam would have been used for industrial, urban and agricultural purposes, including irrigating approximately 30,000 hectares of land in the lower Dawson River acthment. The EPBC Act has since been amended to reflect the Nathan Dam wolf and indirect consequence of an action to be fully considered when the development action is being assessed for approval (legal advice for further information is attached to this submission). Given the similarities between the proposed Nathan Dam and the LFRIP in that both projects will provide water provided by the LFRIP is located much closer a significant risk that the use of water provided by the LFRIP is not been fully considered in the EIS- particularly as the LFRIP is located much closer a significant risk that the use of water provided by the LFRIP will potentially cause consequencies of water provided by the LFRIP will potentially cause consequential impacts to the OUV of the GBR/WHA, which needs to be fully considered in the projects EIS.	To provide guidance to the assessment of direct, indirect and cumulative impacts to the GBRWHA, the Australian Government Department of Environment in collaboration with the CSIRO, GBRMPA and AMS developed the Tramework for understanding cumulative impacts, supporting environmental decisions and informing resilience based management of the Great Barnier Reef World Hentigae Aread. In particular, the proponent has failed to properly assess direct, indirect and cumulative impacts potentially caused by: • The degradation of catchment functions and ecosystem services in the lower Fitzoy River catchment that protect and maintain the OUV of the GBR/HA • The use of 42.000 ML of water provided by the project that may potentially be utilized to increase imgated and intense agricultural production in the lower Fitzoy River Catchment, which will potentially cause Utther degradation of water quarkin in the GBR from increased sediment and nutrient pollution • The use of water for industrial purpose in the Gladstone region	Proponent to provide response	Consequential and cumulative assessment was undertaken for the Project and reported in the draft EIS. Further assessment regarding quantification of potential impacts from facilitated agricultural development are included in the additional information to the draft EIS.	Volume 2, Chapter 9 World Heritage properties and National Heritage places Volume 2, Chapter 12 Cumulative and consequential	Chapter 11 Consequential impacts
		Consequential impacts assessment continued	Also under the Reef 2050 Long Term Sustainability Plan (2050 LTSP) and the GBR Strategic Assessment Program, the Queensland and Australian Governments have committed to ensuring that the potential direct, indirect anualative impacts solentially caused to the OUV of the GBRWHA by development projects in and adjacent to the GBRWHA will be fully assessed in the Environmental Impact Statements (EIS) of development projects.	The Queensland Government's LFRIP EIS media release stated 'the Coordinator-General's evaluation of the project's EIS will take into account the Palaszczuk Government's new targets for nitrogen reduction and sediment run-off in Great Barrier Reef catchments'. The EIS clearly fails to do this. To meet the Queensland Governments nitrogen and sediment reduction targets, the LFRIP EIS must assess the potential introgen and sediment loads resulting from the land uses supported by water provided by the project. The EIS schold also contains specific mechanisms that will enable a net benefit for water quality to be achieved. All consequential and cumulative impacts should be assessed and addressed to achieve a net benefit.				
031.04		Greenhouse gas	Although the proponent has acknowledged that methane will be released to the atmosphere as the vegetation that is inundated by the LFRIP decomposes, it appears the proponent has not incorporated these emissions in the projects greenhouse gas emissions assessment. The emissions arising from consequential land uses must also be assessed and addressed.	The proponent must be required to assess the volume of GHG emissions that will be released from the decomposition of vegetation that has been inundated by the project.	Proponent to provide response	A greenhouse gas assessment in accordance with regulatory requirements is provided in the draft EIS. Scope 3 greenhouse gas emissions are not required to be assessed.	Volume 1 Chapter 13 Greenhouse gas emissions	n/a
	NB: WWF provided an A	ddendum to its submis	ssion to the Coordinator-General on 10.09.2015 and the contents of the Addendu	m revealed the following:				

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Sub and Issue No	d Submitter	Issue - Category	Issue - Details	Submitter Recommendations / Suggested Mitigation	Direction to Proponent	Proponent response	Relevant draft EIS chapter and section	Relevant AEIS report chapter and section	
031.05A		General comment	In the draft EIS, the proponent of the LFRIP has failed to properly assess cumulative and consequential impacts potentially caused to environmental values, the GBRWHA and other MNES.	The Addendum provides a background where, under the Terms of Reference for the LFRIP EIS, makes reference to; Part B s9.1, Part C s1.51 and Part C s1.5 and the requirements what the proponent is required to address.	Proponent to note	Noted.	n/a	n/a	
031.06A		Consequential impacts assessment	Issues the proponent has not adequately addressed in the draft EIS includes: Failure to properly assess consequential impacts to MNES from using water provided by the project for agricultural purposes. Although required under Part C section 1.5 of the ToR to provide a detailed assessment of the likely impacts to MNES and water quality from using water for agriculture purposes, the proponent has instead only provided a generalised statement in the draft EIS that the risk of moacts to MNES from agriculture will be low, which the proponent states is due to the adoption of improved agricultural practoses, locating requirements for intensive animal industries and that agricultural projects potentially impacting MNES will be assessed under the EPBC Act.	Given the adoption of agricultural BMP programs are voluntary, the proponents assumption that uptake of agricultural BMPs will minimise the risk of consequential impacts accurring to the GBRWHA and other MNEs from the use of water provided by the LFRIP is incorrect. Due to this, the proponent must be required to provide a detailed assessment of the consequential impacts to MNEs and other environmental values that may potentially court from utilising 42,000 MI of water for agricultural purposes in the lower Fitzroy River catchment.	Proponent to provide response	Consequential and cumulative assessment was undertaken for the Project and reported in the draft EIS. Further assessment regarding quantification of potential impacts from facilitated agricultural development are included in the additional information to the draft EIS.	Volume 2, Chapter 9 World Heritage properties and National Heritage places Volume 2, Chapter 12 Cumulative and consequential	Chapter 11 Consequential impacts	
031.07A		Cumulative impacts water quality	Issues the proponent has not adequately addressed in the draft EIS includes: Failure to properly assess cumulative impacts to water quality. Under Part B section 91 of the ToR, the proponent is required to assess the cumulative impacts to environmental values that may occur as a result of the LFNP in combination with impacts caused by existing or other proposed projects. While the proponent has provided some information about potential cumulative impacts in Chapter 12 of Volume II of the draft EIS, it has not provided any information regarding the cumulative impacts potentially caused to water quality in the lower Fitzory River catchment and the GBRWHA as a result of the construction, operation and use of water provided by the LFRIP in combination with other water quality impacts caused by the Construction, operation and use of water from existing and proposed development projects located throughout the Fitzory Basin.	For example, the proponent has failed to quantify the cumulative impacts to water quality that will potentially be caused by the LFRIP in combination with: Increased storm water runoff from urban expansion areas Waste water and toxic legary floodwater discharged from mine sites Alteration of catchment hydrology caused by diverting waterways and disturbing groundwater systems by mining operations Increased sediment and nutrient pollution resulting from agricultural expansion supported by other proposed water storages Reduced water storages In addition, the proponent has also failed to assess the potential cumulative impacts caused to water quality by the LFRIP against relevant baselines such as the Environmental Values and Water Quality Objectives of the Fitzory Basin under the Environmental Protection (Water) Policy 2009 and the water quality targets contained in the Fitzroy Basin NRM Plan.	Proponent to provide response	Potential impacts on and to the GBRWHA are addressed in the draft EIS, including mitigation and management measures and consideration of cumulative effects. Further assessment of potential project impacts as relevant to the Reef 2050 Plan is provided in the additional information to the draft EIS together with environmental management measures.	Volume 1, Chapter 11 Water quality Volume 2, Chapter 9 World Heritage properties and National Heritage places Volume 2, Chapter 12 Curulative and consequential Volume 2, Chapter 13 Environmental management system	Chapter 8 Water quality. Section 8.2 Chapter 11 Consequential impacts	
031.08A		Compliance with government commitments	Failure to comply with government commitments to UNESCO. Under the Reef 2050 Long Term Sustainability Plan (Reef 2050) and the GBR Strategic Assessment Program, the Queensland and Australian Governments have committed to implementing a wide range of actions to address UNESCO's concerns regarding the declining condition of the GBRWHA.	One of the key Queensland and Australian Government commitments under these initiatives is to ensure that development actions within and in adjacent catchments deliver a 'net benefit' the Great Barrier Keef (Reef 2050: ErHA); EHT4 and EET3), which will enhance the condition of NNES, induding the Outstanding Universal Value of the GBRWHA. Despite this clear commitment, the proponent has failed to demonstrate in the EIS how the LFRIP will provide a net benefit that will enhance the condition of the OUV of the GBRWHA and other MNES.	Proponent to provide response	Potential impacts on and to the GBRWHA are addressed in the draft EIS, including mitigation and management measures to protect cosystem health and considers cumulative effects. Further assessment of potential project impacts are relevant to the Reef 2050 Plan and is provided in the additional information to the draft EIS together with environmental management measures.	Volume 2, Chapter 9 World Heritage properties and National Heritage places Volume 2, Chapter 12 Cumulative and consequential Volume 2, Chapter 13 Environmental management system	Chapter 8 Water quality, Section 8.2 Chapter 12 Environmental management plan Appendix F Revised draft environmental management plan	
032.01	Department of Natural Resources & Mines	Land	Volume 1, Chapter 5 – Land, Section 5.3.2.2 Geology, Regional geology and Figure 5-8 (Regional Geology) As Figure 5-8 does not feature lithology, just age date codes in legend, the information displayed on the map does not link to the rock unit names and lithology used in the text.	Re-do map with lithology or rock unit name in legend. Suggest simplifying the map as the 17 Permian units with the same shade of blue is confusing.	Proponent to provide response	Revised mapping provided in the additional information to the draft EIS.	n/a	Chapter 4 Land, Section 4.1	
032.02		Land	Volume 1, Chapter 5 – Land, Figure 5-23 (Eden Bann Weir Exploration Permits for Minerals) Eden Bann Weir inset box EPM number is hard to locate when over the impoundment area on northern bank of river.	Suggest moving the label for EPM 19439 slightly north of current location so easier to identify and read.	Proponent to amend	Revised mapping provided in the additional information to the draft EIS.	n/a	Chapter 4 Land, Section 4.1	

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032.03		Project description - gauging stations	Volume 1, Chapter 2 – Project Description, Section 2.3.3.3 Gauging stations and monitoring weirs The EIS states: "SumWater's existing stream gauging station at The Gap (Figure 2.2) will be inundated by the wir reservoir as a result of raising Eden Bann Weir for the Project. The station would require reinstatement and recalibration." The Department of Natural Resources and Mines (DNRM) own and operate existing stream gauging station at The Gap GS 130005A, not SumWater. The EIS states that inundation of the existing stream gauging station would not occur until stage 2 construction is finalised. DNRM suggests the addition to this paragraph that the station could remain operational until stage 2 is complete.	Update the EIS to refer to the DNRM owned gauging station. Suggest including the following: "The station would require reinstatement and recalibration, <u>however it could remain operational until the Eden Bann Weir Stage 2 is implemented.</u> "	Proponent to amend	Amendments included in the additional information to the draft EIS.	nia	Chapter 7 Surface water resources, Section 7.5
032.04		Project description - gauging stations	Volume 1, Chapter 2 – Project Description, Section 2.3.3.3 monitoring weirs The EIS states: "An existing Department of Natural Resources and Mines (DNRM) stream gauge is located upstream of the proposed Rookwood Weir site at the Riverslee Road river crossing (Figure 2.6). This gauge will be reactification and will require ireinstatement or relicacion and recalibration. Minor works are required approximately 700 m downstream of Rookwood Weir for the construction of a new monitoring weir. The monitoring weir is proposed to be located on a natural rock bar and is designed so as not to impede fish passage. A new gauge downstream of Rookwood Weir is proposed at the same location as the monitoring weir." It would be beneficial for data continuity for the Riversiae GS 130003A that construction and installation of the replacement gauge occur prior to construction of Rookwood Weir. The EIS states that inundation of the resisting stream gauging station would not occur until stage 2 construction is finalised. DNRM suggests the addition to this paragraph that the station could remain operational until stage 2 is complete.	To maintain data continuity for the Riverslea GS 130003A, construction and installation of the replacement gauge occur prior to construction of the Rookwood Weir. Suggest including the following in the paragraph: "The existing Riverslea GS 130003A could remain operational until Rookwood Weir Stage 2 is implemented."	Proponent to amend	Amendments included in the additional information to the draft EIS.	nia	Chapter 7 Surface water resources, Section 7.5
032.05		Legislation	Volume 1, Chapter 9 – Surface Water Resources, Section 9.1.2.1 Overview The EIS states: "Fitzroy Basin Resource Operations Plan (as amended October 2011 and as amended September 2014) (Fitzroy ROP)" This reference is incorrect.	Amend the EIS: Fitzroy Basin Resource Operations Plan September 2014.	Proponent to amend	The project assessment period has utilised a number of versions of the Fizzoy ROP. Appropriate dates are thus included in the reference as considered relevant.	nia	n/a
032.06		Surface water - subcatchment areas	Volume 1, Chapter 9 – Surface Water Resources, Figure 9-1 The subcatchment areas do not correctly match the Fitzroy Water Resource Plan Schedule 2 defined sub catchment areas. This may lead to potential confusion if it was intended to match WRP defined subcatchment areas.	Amend Figure 9-1 to correctly reflect the sub catchment areas as defined in Schedule 2 of the Fitzroy Water Resource Plan.	Proponent to amend	Amendments included in the additional information to the draft EIS.	nia	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.1
032.07		Surface water - WASOs	Volume 1. Chapter 9 – Surface Water Resources, Section 9.1.2.2 Water Resource (Fitzoy Basin) Plan 2011 The EIS states: "Performance indicators for WASOs and EFOs are defined at nodes within the Fitzoy WRP plan area." WASOs are not defined at nodes built by water allocation priority for supplemented and by water allocation groups (WAGs) for unsupplemented water allocations.	Amend the EIS to reflect this issue.	Proponent to amend	Amendments included in the additional information to the draft EIS.	nia	Chapter 7 Surface water resources, Section 7.1

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032.08		Surface water - WASOs	Volume 1, Chapter 9 – Surface Water Resources, Section 9.1.2.2 Water Resource (Fitzroy Basin) Plan 2011 The EIS States: "WASDs for water allocations per water allocation group in the Fitzroy Water Management Area are listed in Table 9-1." These are unsupplemented water allocations.	Amend the EIS: "WASOs for unsupplemented water allocations per water allocation group in the Fitzroy Water Management Area are listed in Table 9-1".	Proponent to amend	Amendments included in the additional information to the draft EIS.	n/a	Chapter 7 Surface water resources, Section 7.1
032.09		Surface water - EFOs	Volume 1, Chapter 9 – Surface Water Resources, Section 9.1.2.2 Water Resource (Fitzroy Basin) Plan 2011 The EIS States: "The performance indicators for the EFOs specified in the Fitzroy WRP are." This definition could be improved by making reference to Node 0.	Amend the EIS: "The performance indicators for the EFOs specified in the Fitzroy WRP for Node 0 are:"	Proponent to amend	Amendments included in the additional information to the draft EIS.	n'a	Chapter 7 Surface water resources, Section 7.2
032.10		ROP - operational rules	Volume 1, Chapter 9 – Surface Water Resources, Section 9.3.2.4 Water allocation security objectives The EIS States: "Since changes to existing operational rules are also likely to be required, a ROP amendment will be sought, again requiring compliance with WRP objectives." A ROP amendment is a requirement following construction of a weir and/or upgrade.	Amend the EIS: "A ROP amendment will be required due to changes to existing operational rules. Amended operational rules will be required to meet WRP objectives."	Proponent to amend	Amendments included in the additional information to the draft EIS.	n/a	Chapter 13 Project commitments Appendix D Revised project commitments
032.11		Surface water - flow regimes	Volume 1, Chapter 9 – Surface Water Resources, Section 9.3.2.4 Water allocation security objectives The EIS States : Low flow or no flow (waterholes) entitlements have the potential to be impacted as a result of the project, both upstream and downstream of the wrise. It is likely that changes to stream flow regimes will alter the ability of these users to extract water under the existing licence conditions. It is acknowledged that this impact will be addressed in the amended Fizzoy ROP. It is envisaged that individual negotiations will be backed on the memded Fizzoy ROP. It is envised that individual negotiations will be backed on the memded Fizzoy ROP. It is envised that individual negotiations will be undertaken between the options for the provision of an altermative water supply. Proposed arrangements will be submitted to the State for review and approval." The statement that likely changes to stream flow regimes will alter the ability of users to extract water under existing licence conditions is incorrect. This statement should reflect existing licence conditions addressed in the amended Fizzoy ROP is not considered appropriate and should be removed. It considered necessary that the proponent engage with DNRM prior to negotiations with low flow entilement holders and during development of proposed arrangements particularly if a new water productivelocation is proposed to ensure that the time.	Amend the EIS as follows: "Low flow or no flow (waterholes) entitlements have the potential to be impacted as a result of the project, both upstream and downstream of the weirs. It is likely that changes to stream flow regimes will alter the ability of these users to extract water under the existing isense-conditiones water sharing rules as identified in the ROP. It is excloseded that this impact will be addressed in the mended Filzery ROP. It is envisaged that individual negotiations will be undertakten between the proponent and entitement holder once the Project receives a trigger and a development tscenario is determined. The negotiations will be based on the voluntary purchase staget a management is will be submitted to the State for review and approval prior to negotiations commencing to ensure that any arrangements are within the current regulatory framework."	Proponent to amend	Amendments included in the additional information to the draft EIS.	n/a	Chapter 7 Surface water resources, Section 7.1
032.12		Land tenure	Volume 1, Chapter 3 Legislative and project approvals Table 3-7 Land tenure is required to be in place prior to development approval and construction.	Insert requirement to obtain tenure, including applying for Land Act 1994 tenures prior to development or construction in Table 3-7.	Proponent to amend	Amendments included in the additional information to the draft EIS.	n/a	Chapter 13 Project commitments Appendix D Revised project commitments
032.13		Compensation	Volume 1, Chapter 2 Project description Intended tenure holder and any intention to compensate landowners is unclear.	Include information on the tenure holder for the water storage infrastructure and inundation areas, and any intention to compensate landowners as part of acquiring the tenure (by agreement or otherwise).	Proponent to amend	Land tenure and compensation are discussed in the draft EIS. Clarification is provided in the additional information to the draft EIS.	Volume 1, Chapter 5 Land, Sections 5.5.2.1, 5.5.2.2, 5.5.3.1 and 5.5.3.2	Chapter 4 Land, Section 4.2.2 Chapter 13 Project commitments Appendix D Revised project commitments

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			The LISS states that Stage 3 of Eden Bann Weir will inudate 1690 ha and Stage 2 of Rockwood will inudate 1930 ha. The Report states that storage water will be contained within the bed and banks. It is uncertain at this point what vegetation if any will need to be cleared along the Fizzor, Dawson and McKenzie rivers. Much of the mapped Category B over the river itself appears to only cover water or sand. In places these un-vegetated areas are up to 80 metres wide.					
032.14		Vegetation management	Including multication will require an operational works permitted are clearing on wegetation. Operational works are required to be assessed against the State Vegetation Management State Code (SVMSC).	In summary: If the project is required to be assessed against the SVMSC then the proponents must provide	Proponent to provide	Clearing extents are provided in the draft EIS. Clarification on the proposed CID status is provided in the additional information to the draft EIS. Assessment against SVMSC is not	Volume 1, Chapter 6 Flora, Section 6.3.2	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.4
			When viewing the Regulated Vegetation Management map (RVM) on Google Globe, most of the bed of the river is mapped as Category X with only a small area mapped as least concern 11.3.25 at the 170 km point (upstream of the ocean. There are significant areas of Category X along the banks but along the majority of the Fitzpy river there is a narrow strip (100 metres wide in places) of Category B vegetation. Therefore if the Eden Bann project floods any of the bank vegetation then there will be a potential requirement to provide offsets for the clearing of watercourse vegetation, endangered and of concern vegetation and essential habitat (EH). Mapped essential habitat is present at the Weir site.	accurate details of the projects inundation footprint so that the extent of cleaning can be determined.				
		Vegetation management (continued)	Rookwood Weir When viewing the RVM on Google Globe, some of the bed of the river is mapped as Category X but much of the bed is mapped as C foncem Category B vegetation. There is a small area of vegetation mapped as E Hand endangered Category B vegetation. Therefore if the Rookwood project floods any of the bank vegetation then there will be a potential requirement to provide offsets for the dening of vatarcourse vegetation, endangered and of concern vegetation and essential habitat (EH). Any vegetation clearing within the bed of the river where mapped as Category B will also be assessed. There are some small areas mapped as wetlands – if these areas are inundated, then an offset is likely to be required. Designation as Community Infrastructure SunWater and Gladstone Area Water Board may be able to undertake the formal designation process to have the Lower Fitzroy Infrastructure Project designated or community infrastructure only if the Minister or local poverment is satisfied the community infrastructure will facilitate the implementation of legislation and policies about environmental protection or ecological sustainability. If the project is not designated by DILGP, then the clearing of Category B vegetation will not be exempt and the project will have to be assessed against the SVMSC.		Proponent to provide response (continued)			
033	Private submitter 11	General comment	Cattle bogging, loss of access, difficulty pumping water, loss of country & fencing difficulty.		Proponent to provide response		Volume 1 Chapter 5 Land, Section 5.5.3.2 Volume 1 Chapter 18	Chapter 4 Land, Section 4.2.2 Chapter 13 Project commitments Appendix D Revised Project commitments

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034	Private submitter 12	Potential flooding	I have been unable to assess the impact either positive or negative upon my property 'Jaffad', Jackson Road, Gogango, described as portion 89 as I have not been able to determine from the maps available as to the level of fooding upon my property which comprises significant improved pastures and fertile farming.	I do not consider the project has had sufficient consultation to enable meaningful submissions to be made.	Proponent to provide response	Land use and potential Project impacts on the use of rural land for rural purposes was addressed in the draft EIS, including proposals to enter into negotiations with impacted landholders thre spart to specific impacts on their individual properties. Consultation for the project has been ongoing since 2008. Further updates are provided in the additional information to the draft EIS.	Volume 1 Chapter 5 Land, Section 5.5.3.2 Volume 1 Chapter 18 Appendix F Consultation report	Chapter 2 Consultation, Section 2.6 Chapter 4 Land, Section 4.2.2 Chapter 13 Project commitments Appendix D Revised Project commitments
035.01	Private submitter 13	Access	I am writing regarding the LFRIP, in particular the 'Rookwood Weir' stage one. Firsty congrahulations on the progress so far on such a beneficial project. The positive impacts of this project are enromous and wide reaching for the local, state and federal economy across a broad range of industries. I am concerned, and have raised the issue of access with Geraldine Squires (PEC GHD).	Our cattle grazing business and home, is located on the northern side of the Mackenzie River with our main access via the Foleyrale crossing on the Apis Creek Road. As you are aware this crossing is frequently submerged for extended periods, and is understandably a great impost to our business and personal lives. My concerns are that the proposed Rookwood Weir would exacerbate this problem and not be addressed until stage two is completed. The impacts would be fait from stage one completion.	Proponent to provide response	Land use and potential Project impacts on the use of rural land for rural purposes was addressed in the draft EIS, including proposals to entri no negotations with impacted landholders with regard to specific impacts on their individual properties. Further updates, including darfication regarding Foleyvale Crossing) are provided in the additional information to the draft EIS.	Volume 1 Chapter 5 Land, Section 5.5.3.2 Volume 1 Chapter 18	Chapter 4 Land, Section 4.2.2 Chapter 10 Transport, section 10.2.1 Chapter 13 Project commitments Appendix D Revised Project commitments
035.02		Bridge infrastructure	I note in the current EIS that there is no proposed higher level bridge for the Foleyvale Crossing for stage two development. I also note that there is a proposed high level bridge across the Fitzroy at Riverslea for stage one.	Could I suggest that there is no need for two high level bridges in such close proximity. If the Riverslea Bridge was made to satisfactory standard (two lanes instead of one) and the current local council (Stoney Creek Road) linking the Riverslea crossing to the Apis Creek Road had some upgrading, there would be no need for a high level crossing at Foleyvale. The reduced construction costs, and long term synergies this proposal creates offer considerable positives to all parties concerned. I urge you to strongly consider the merits.	Proponent to provide response	Noted. The proposed Foleyvale deck level determined accommodates a raised Rookwood Weir Stage 2 development and would not reguire additional upgrading for a potential second stage development.	nla	n/a
036.01	Private submitter 14	Water allocation viability	We hold a 1 378 megL water allocation in Zone B of the Lower Fitzroy Water Supply Scheme to which we purchased with the property, 'Lake Learmonth' in 2006. It is our understanding that the scheme was set up following the building of the EBW for the purpose of supplying water to the Stanwell Power Station. Prior to the Vier being built, the water was available (un-supplemented) from a natural permanent supply in the river. We have done extensive trials on our property in an attempt to utils the water was available (un-supplemented) from a natural permanent supply in the river. We have done extensive trials on our property in an attempt to utils the water. As result, we found that the soils low fresh the soils on from other irrigation areas also creates problems for agronomy, vermin control and contracting. The position we find ourselves in is that we have a large allocation that is urviable to use, unable to be traded or sold nor be surrendered leading to an ever increasing financial burden.	Sun water's annual allocation charge at the time of purchase in 2006 was \$344.50 (\$0.26 per ML per year) and is now \$16 508.44 per annum (\$11.98 per ML per year). We are concerned that the creation of further water storages on the lower Fizzro maney Eden Banna Rockwood) will see other current un-supplemented allocation holders charged with similar fees to those imposed upon us.	Proponent to provide response	Noted. Clarification on water allocations and entitlements relative to the project are provided in the additional information to the draft EIS.	nia	Chapter 7 Surface water resources, Section 7.1 Chapter 13 Project commitments Appendix D Revised project commitments
036.02		Agriculture - water usage	The allowance for mines to discharge surplus water into the river has had an impact on stock consumption. A number of graziers along the river have noticed stock water consumption reduced in comparison to when dams, lagoons or bore water is made available. Our off-stream stock water is sourced from a lagoon with plans to ensure all livestock have sole access to this source in due course. The use of river water for impation purposes is currently not satisfactory or economically viable, and the act of damming water which has been disposed of by mines upsteam will further compound the present situation for agricultural purposes. At present, there are approximately 12 pivots on the entire Fitzroy River that are currently not in use.	When mines are closed in years to come, open cut mines will see overflow entering the catchment and further polluting the river. The current penalties placed on companies are seen as far too levinet and an easy option in comparison to treating water before placing into the open water source. The additional storage of water on the lower Fitzroy will not see a direct increase in interest in agriculture as is already evident by the amount of water presently available but unused.	Proponent to provide response	Noted.	nla	n/a

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037.01	Department of Energy and Water Supply	Water allocation and security objectives	Vol 1, s9.3.2.4 - Surface Water Resources - Water allocation & security objectives (p9-40). The last 2 sentences of the 4th paragraph on p9-40 read: "further modelling will be undertaken once development of a specific infrastructure scenario is triggered to assess project yields agains the performance of supplies delivered by the existing infrastructure. The project is committed to maintaining existing supply reliability for current water allocation licensees." It is important to acknowledge that: • water infrastructure, such as RRC's Fitzroy Barrage, may have been developed enabling water supply with performance better than the WASO. • It is understood that the project is expected to be operated in conjunction with the existing water infrastructure, indufing Council's Fitzroy Barrage. • The yield for the project should be generated wholly by the proponent's infrastructure. These 2 sentences of the 4th paragraph referred to above are part of a paragraph that starts discussing unsupplemented entitlement performance of existing supplies from the current EBW and Fitzroy Barrage.	These 2 sentences: 1. should appear as a new and separated paragraph in this s9.3.2.4 2. include specific reference to the existing EBW and Fitzray Barrage and 3. refer to the generation of the additional yield of the project wholly by the proponent's infrastructure. For example: "Further modelling will be undertaken once development of a specific infrastructure scenario is triggered to assess project yields against the performance of supplies delivered by the existing EBW and Fitzray Barrage. The project is committed to maintaining existing supply reliability for current water allocation licensees and ensuing that the additional yield for the project is wholly attributable to the new infrastructure."	Proponent to amend	Amended in the additional information to the draft EIS.	Na	Chapter 13 Project commitments Appendix D Revised project commitments
037.02		Operational arrangements	Vol 1, s9.4 4 2 - Surface Water Resources - Operations (9-67) The last 2 sentences of the 4th paragraph read: "Since changes to existing operational rules are also likely to be required, a ROP amendment will be sought, again requiring compliance with WRP objectives." This additional work to develop operational rules may need to also consider the performance of supply provided by the existing EBW and Fitzroy Barrage.	These 2 sentences could appear as the last paragraph in this section (9.4.4.2) and should include reference to the existing EBW and Fitzroy Barrage for example: "Since changes to existing operational rules are also likely to be required, a ROP amendment will be sought, again requiring compliance with WRP objectives, and recognising the capability of the existing water supply infrastructure in any conjunctive operational arrangements."	Proponent to amend	Amended in the additional information to the draft EIS.	nia	Chapter 13 Project commitments Appendix D Revised project commitments
037.03		Legislation	Vol 1, sE1.5 - Executive Summary - Regulatory framework and EIS process (pE-8) The final sentence of the 1st paragraph does not reference the Water Supply (Safety & Reliability) Act 2008 (WS(S&R)Act).	The WS (S&R) Act 2008 should be added to the list of legislation administered under the IDAS framework.	Proponent to amend	Amended in the additional information to the draft EIS.	n/a	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.3
037.04		Legislation	Vol 1, s3.3.24 - Queensland Legislation (WS[S&R]Act). 1. s3.3.24 - attempts to summarise the WS[S&R]Act requirements. However, it omits a section very relevant to this case. Section 340 states: This chapter does not apply to- (a) A heardhous waste dam; or (b) A weir that does not have a variable flow control structure on the crest of the weir. This means any of the Act's provisions only apply for stages where gates are to be added to the crest of the weir i.e. EBW stage 3 and RW Weir stage 2.	Include this exclusion in the EIS.	Proponent to amend	Amended in the additional information to the draft EIS.	nia	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.3
037.05		Legislation	Vol 1, s3.3.24 - Queensland Legislation (WS[S&R]Act). 2. This section does not follow the flow of how the Act is applied which takes away from the ability to easily understand the legislation.	This section of the EIS would follow much better if after noting the above exclusion it next went through what a FIA is an assessment of the number of people whose safety would be at risk if the dam failed), and when one is required by the Act. The dimensional requirements should suffice since this is what catches these dams - with the variable flow control structure.	Proponent to respond	Amended in the additional information to the draft EIS.	n/a	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.3

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037.06		Legislation	Vol 1, s3.324 - Queensland Legislation (WS[S&R]Act). 3. References are continually made throughout the report to the dams being referable or non-referable. The failure impact assessment (FIA) only has effect in determining if a dam is referable when the assessment has been accepted by DEWS. Since DEWS has not even sighted a FIA, the proposed works can only be considered to be "expected to be referable or non-referable" as the case might be and not actually referable or non-referable.	Any dam that requires completion of an FIA is assessable as a "Particular Dam" (State Development Assessment WSA Module 16) or as currently in the EIS "Pursuant to Schedule 3, Par 1, Table 4(4) of the Sustainable Planning Regulation". Evidence of acceptance of the FIA needs to be provided with a "Particular Dam" application (s561 of WS(S&R) Act). After this it can continue with what makes a dam referable (number of PAR from FIA) much as it currently states. Whether a dam is referable and in the contents of the development approval not whether one is required. The EIS currently gives the misapprehension that development approval is only necessary for referable dams. Change to "expected to be referable" or not referable as the case may be or similar.	t Proponent to amend	Amended in the additional information to the draft EIS.	n/a	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.3	
037.07		Legislation - particular dams	Vol 1, s3.7 - Project approvals (Table 3-7, p3-33). The 5th row of the table on this page sets out the requirements for operational works for a referable dam. The IDAS trigger should refer to "Particular Dams" instead of referable dams. The description of why it applies reads: "The EBW is classed as a referable dam". This approval should reference the "Particular Dams" trigger instead of whether the dam is referable. As noted for s3.3 24 strictly speaking only the final stage at each weir requires approval. The list of relevant legislation includes the Water Act instead of WS (S&R) Act. This table within it are also reproduced in the Executive Summary as Table E- 2.	The "Perticular Dams" trigger applies to dams which must be Failure Impact Assessed under the WS (S&R) Act. This indicates that FIAs for EBW & RWW would need to be submitted to DEWS for acceptance for stages which include the addition of gates to the crest of the weir. The statement should be rewritten to include both EBW and RWW as "Particular Dams". Water Act should be changed to WS (S&R) Act.	Proponent to respond	Amended in the additional information to the draft EIS.	n/a	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.3	
037.08		Legislation - particular dams (operational works)	Vol 1, s3.7 - Project approvals (Table 3-7, p3-36). The 1st row on this pages reads: "A FIA must be undertaken prior to submission of the operational works application for a referable dam". The need for a FIA is based on the "Particular Dams" criteria for requiring a FIA and not based on whether the dam is referable. A FIA must be submitted before a dam can be accepted as being a referable dam.	The sentence should read: "A FIA must be accepted by the Chief Executive of the Department of Energy and Water Supply prior to submission of the operational works application for a particular dame."	Proponent to amend	Amended in the additional information to the draft EIS.	n'a	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.3	
037.09		Legislation	Vol 1, s9.3.2.8 - Surface Water Resources (Uncontrolled releases of water due to system failure - p9-59). The 2nd paragraph of s9.3.2.8 states that the dam is referable in terms of the Water Act. The relevant legislation is the WS (S&R) Act.	The reference should be corrected to the WS (S&R) Act.	Proponent to amend	Amended in the additional information to the draft EIS.	n/a	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.3	
037.10		Failure impact assessment	Vol 1, s20.4.6.2 - Hazard & risk (Failure impact assessment) p20-36 The 1st paragraph of s20.4.6.2 states that raised EBW is referable under the Water Act. Paragraph 2 of s20.4.6.2 states that the FIA for RWW shows that the weir is non-referable and that further FIAs will be undertaken at five yearly intervals.	Change the reference from the Water Act to the WS (S&R) Act 2008. In order to determine if the weirs are referable a FIA must be submitted to DEWS for assessment. If the FIA is accepted DEWS will then set time periods for ongoing FIAs in the notice of acceptance of the FIA.	Proponent to	Amended in the additional information to the draft EIS.	n'a	Chapter 3 Legislation, regulatory frameworks and project approvals, Section 3.3	