

## Department of ENVIRONMENT, PARKS AND WATER SECURITY

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Our ref: DEPWS2021/0157

Your ref:

Ms Kylie Fitzpatrick Department of Environment, Parks and Water Security PO Box 3675 Parap NT 0801

Dear Ms Fitzpatrick

Re: Referral - Project Caymus Bulk Fuel Storage Facility, East Arm

The Department of Environment, Parks and Water Security (DEPWS) has assessed the information contained in the above referral and provides the following comments.

## Water Resources Division

The proposed Bulk Fuel Storage Facility at East Arm industrial precinct is not anticipated to interact with groundwater resources on a local or regional scale. The proponent does not intend to use local groundwater for construction or operation purposes and has listed existing Power and Water Corporation water mains as the primary water supply for the project. The volume of water used is yet to be determined and the referral references implementing a water meter and backflow prevention control device on the water main to monitor the volume of water utilised. Current best practices should be utilised during construction phases to minimise potential leaching of contaminants into underlying shallow groundwater systems.

Culturally important water features have been considered by the proponent, stating none are found within the vicinity of the proposed project area. Management measures regarding soil erosion and surface water runoff must be addressed in the Construction Environmental Management Plan (CEMP) to minimise potential impacts on water quality.

## Rangelands Division Land Management Unit

Section of Referral	Theme or issue	Comment
14 Potential	'Where construction activities are	Section 14 identifies an ESCP will be
Environmental	scheduled to occur over the wet season (1	prepared should construction activities
Impacts and	October - 30 April), an ESCP (including	occur over the Wet season. It is
Proposed	accepted International Erosion Control	recommended that prior to the
Environmental	Association (IECA) Best Practice Erosion	commencement of any works (including
Management	and Sediment Control Guidelines 2008 (or	early works), an Erosion and Sediment
- Table 31	higher standard) where relevant) will be	Control Plan (ESCP) is developed. The

experienced professional. Erosion and by a Certified Professional in Erosion sedimentation structures will be inspected and Sediment Control (CPESC). and maintained throughout the duration of construction occurring in the wet season'. Due to the size, type of works, location and being adjacent to open unlined drains that outfall to the Darwin Harbour, should the Project Caymus Bulk Fuel Storage Facility require consent under the Planning Act 1999 the DEPWS Land Management Unit would recommend an Erosion and Sediment Control Plan Condition Precedent to the effect: Prior to the commencement of works, a Type 2 Erosion and Sediment Control Plan (ESCP) must be developed in accordance with the Department of Environment, Parks and Water Security ESCP Standard Requirements 2019 available at https://nt.gov.au/environment/soilland-vegetation. The ESCP must be developed and/or certified by a Certified Professional in Erosion and Sediment Control (CPESC) to the satisfaction of the consent authority. The ESCP should be submitted for acceptance prior to the commencement of any earth disturbing activities (including clearing and early works) to Development Assessment Services via email: das.ntg@nt.gov.au. It is unclear why the ESCP would be Table 31 Where construction activities are scheduled Environmental to occur over the wet season (1 October endorsed by DIPL, unless this is in Risk 30 April), an ESCP (including accepted reference to the expectation that a future Development Permit Condition Assessment International Erosion Control Association Considering (IECA) Best Practice Erosion and Sediment would require an ESCP. the NT EPA Control Guidelines 2008 (or higher Factors and standard) where relevant) will be prepared Objectives by a suitably qualified and experienced professional, be endorsed by DIPL and be implemented by the construction Contractor prior to works commencing.

prepared by a suitably qualified and

ESCP should be developed and certified

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Environment Division
Environmental Authorisations

Section of referral	Theme or Issue	Comment
3 Project	Potential impacts and risks to Darwin	Section 13.3.4 discusses the
description	Harbour water quality from hydrocarbon	generation of process wastewater and
Table 20 - Marine	spills (jet fuel and bunkering) during fuel	its disposal pathway after treatment
environmental	transfers at the wharf. Are the proposed	being: (1) discharge into Darwin
quality/marine	management measures adequate to	Harbour and (2) reuse on site.
ecosystems	avoid or mitigate significant impacts?	9
	9000 NO.	Contaminants within discharge
11 Sea		process water may vary depending on
Table 31 - Marine		the waste stream and treatment
environmental		method. These matters are not
quality		discussed in this section, and is not
		referenced in Table 20 (Marine
		environmental quality).
		Further information is required to
		clarify whether the proposed disposal
		options are appropriate and should
		include an assessment of
		environmental risks.
		A disabassa of a subsurius subsu
		A discharge of contaminants to
		Darwin Harbour will be subject to a
		Waste Discharge Licence in
		accordance with section 74 of
		the Water Act 1992.

Environmental Operations Unit				
Section of referral	Theme or Issue	Comment		
3 Project description	Potential impacts and risks to air quality	The proponent has modelled VOC		
Table 20 - Air quality	from hydrocarbon emissions, and	emissions from 11 proposed tanks in		
	whether emissions controls at the tank	the tank farm and concluded: 'Based		
12.2 VOC emissions	farm are required to avoid any potential	on VOC emissions of the preliminary		
Table 31 - Air quality	for significant impact.	design, the Caymus tank farm will		
Appendix D - VOC		emit a total 0.895ktpa of VOCs		
emissions and GHG		which does not exceed the 1000ktpa		
calculations		threshold set forth by the		
		Environment Protection Authority of		
		Australia. The proposed tank farm		
		design follows the environmental		
		regulations'. The proponent must		
		note that there is no 'Environment		
		Protection Authority of Australia'		
		and it is not clear how the 1000ktpa		
		threshold criteria was		
		obtained. Clarity around where the		
		1000ktpa threshold is from is		
		requested. The Northern Territory		

Section of referral	Theme or Issue	Comment
		Environment Protection Authority has not set this threshold.
		An air emissions impact assessment must be conducted in accordance with Approved Methods for the Modelling and Assessment of Air Pollutants in New South Wales, as amended (https://www.epa.nsw.gov.au/your-environment/air/industrial-emissions/modelling-assessing-air-emissions).
		The proponent must note that in addition to tank breathing and working losses, other emission sources from the development will include, but are not limited to, ship unloading and loading emissions, fugitive emissions from leakages, spills and truck loading gantry, and combustion emissions from ships. The assessment should be revised to comprehensively characterise and assess all emissions associated with the development and other emissions located in close proximity to the proposed development. If toxic air pollutants are emitted from sites close to the development, in significant quantities, these additional emissions should be assessed on a cumulative basis.  The proponent must use the correct VOC speciation profile of their tank emissions when assessing air emissions impact.  The proponent must provide a summary of total predicted impacts for each modelled toxic air pollutant and individual odorous pollutants at
		and beyond the boundary of the development.
		The proponent must install a vapour recovery unit (VRU) (no incineration) to control emissions

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Section of referral	Theme or Issue	Comment
		from the development. Refer to Part 6 'Control of volatile organic liquids' in the NSW Protection of the Environment Operations (Clean Air) Regulation 2010 for guidance. Emissions from the VRU must be included in the air quality impact assessment and any emission control efficiency proposed for the unit must be justified.
		GHG emissions estimated by the proponent shows peak emissions for the construction period will be 6019tpa CO <sub>2</sub> equivalent; and operational GHG emission is estimated as 600tpa. Construction and operational emissions will not cause a significant increase in contribution to the NT's greenhouse gas emissions.

Yours sincerely

Luis Da Rocha

Executive Director, Rangelands

24 August 2021

