



9 September 2019

Ms Sally Stromayr
A/Director Onshore Petroleum
Environment Division |
Department of Environment and Natural Resources
Level 1, Arnhemica House, 16 Parap Road, Parap NT 0820

Attention: Patricia Tonkin

Dear Ms Stromayr

Update of part of an Environmental Management Plan: Beetaloo Basin Kyalla 117 N2 Civil Construction Environmental Management Plan

Origin is writing to the Department of Environment and Natural Resources (DENR) to advise of a proposed update to the Beetaloo Basin Kyalla 117 N2 Civil Construction Environmental Management Plan NT-2050-15-MP-034 (referred to herein as the “EMP”).

Origin proposes to update Table 1 of the EMP to include additional disturbance to allow for wet season operations. The additional disturbance will allow for:

- **Helipad and access track (0.6 ha):** the construction of a new helipad to allow for wet season staff and material movement. This will be utilised when the access track to the site is not passable.
- **Haul roads (1.5 ha):** hauls road will be constructed adjacent to the existing access track as a safety measure. This new haul roads will separate truck movements from the new helipad and lease pad construction sites from the drilling and camp activities. This ensures the haul truck can move from the gravel pit to the construction site without interfering with drilling and camp operations.

This proposed amendment is reflected in Table 1 below.

The proposed update will carry an increase in disturbance area of 2.1 hectare, with the total disturbance area for the Kyalla 117 N2 civil construction scope increasing from 6.6ha to 8.7 ha.

A map of the proposed addition is provided in Attachment 1.

All locations are located within the existing approved area covered under Origin’s current AAPA Certificate C2019/039.

Updated Table 1 of the Kyalla 117 N2 Civil Construction EMP

<i>Exploration Permit</i>	<i>Infrastructure Name</i>	<i>Station</i>	<i>Zone*</i>	<i>Approx Easting</i>	<i>Approx Northing</i>	<i>Disturbance Area (ha)</i>
EP117	Kyalla 117 N2 well Pad	Hayfield/Shenandoah	53	356175	8137500	4.5
EP117	Camp lease pad	Hayfield/Shenandoah	53	356448	8137813	1
EP117	Stockpile laydown	Hayfield/Shenandoah	53	356435	8137500	0.2
EP117	Access Tracks	Hayfield/Shenandoah	53	356192	8138068	0.5
EP117	Stuart highway intersection upgrade	Hayfield/Shenandoah	53	356400	8137620	0.4
EP117	Helipad and access track	Hayfield/Shenandoah	53	356272	8137816	0.6
EP117	Haul roads	Hayfield/Shenandoah	53	356208	8137590	1.5
Total Disturbance Area (Ha)						8.7

An assessment of the proposed disturbance area was included as a part of the existing land condition assessment submitted as a part of the Kyalla 117 N2 Civil Construction EMP. Consistent with the existing activities within the approved EMP, the proposed additional disturbance is located in a regional extensive, non-threatened vegetation community.

The following information regarding the environmental, cultural and pastoralist aspects have been provided for inclusion in the EMP.

Environment

- The proposed additional disturbance is located within *Corymbia* low woodland with a tussock grass understorey. The vegetation communities are regionally extensive and not threatened. A summary of the land condition assessment is provided in Attachment 2.
- The additional activity is not anticipated to result in a material risk to threatened flora and fauna, with a risk profile consistent with the existing activities within the approved EMP.
- All areas were inspected by AECOM during the recent weed survey and therefore have been baselined.
- The risk mitigation controls outlined in the existing EMP are identical and will not require any amendment to accommodate the additional scope.
- The additional disturbance has been adequately covered under the existing security titled *Agreement: Beetaloo Basin Kyalla 117 N2 civil Program Ref: NT-2050-15-34*.

Cultural Heritage:

- The proposed additional disturbance is covered by Origin's current AAPA Certificate C2019/039, with the appropriate Native Title holder and NLC clearances obtained.



Stakeholder engagement:

- Construction of the additional disturbance area is covered under existing stakeholder engagement. Additional engagement has occurred to ensure the pastoralists are aware of the proposed activities.

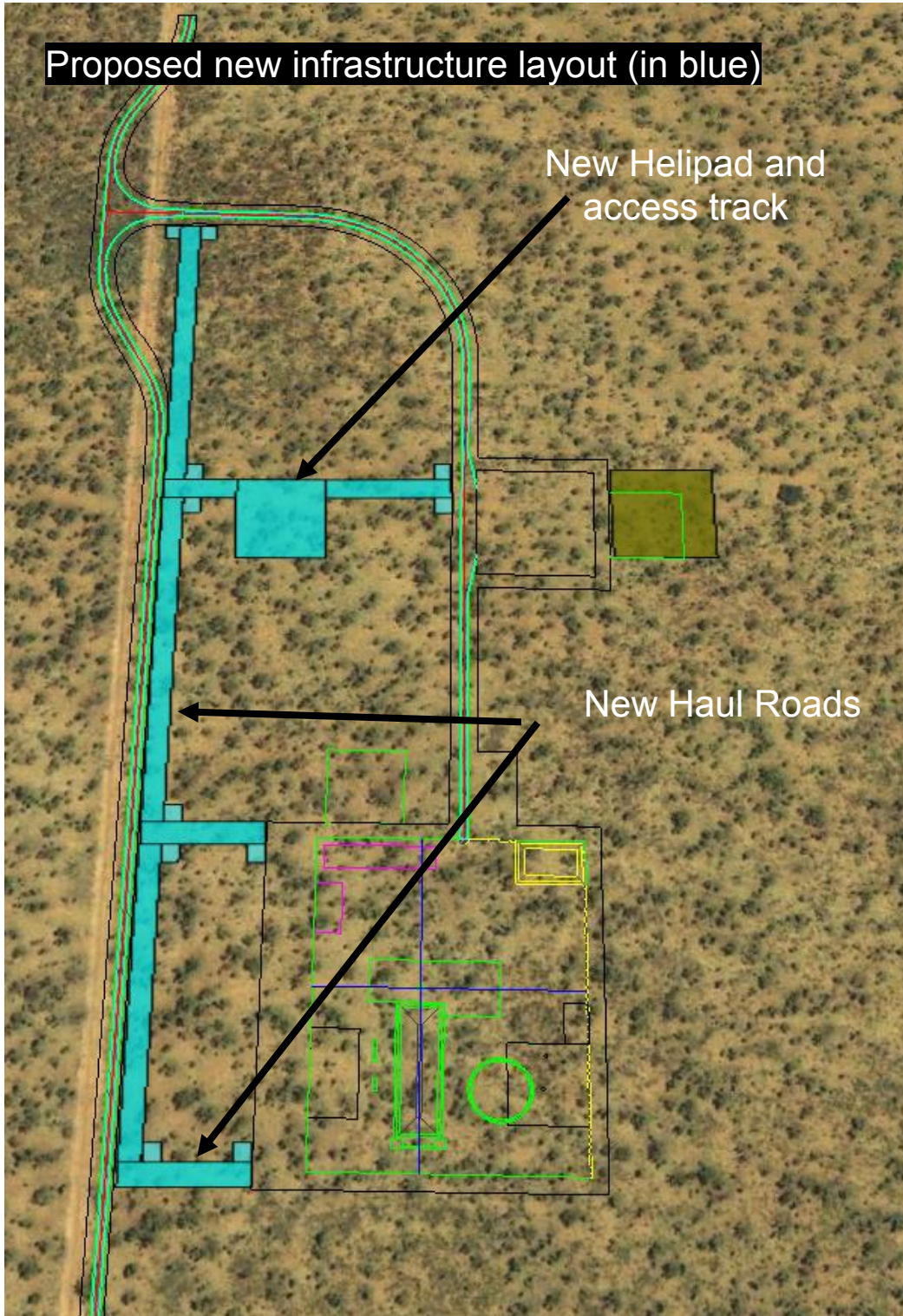
If you require any further information, please do not hesitate to call Matt Kernke on 0467700565.

Kind Regards

A handwritten signature in blue ink, appearing to read "Tracey Boyes".

Tracey Boyes
General Manager, Beetaloo and Growth Assets





Attachment 1- Map of Proposed Area





Attachment 2 Land Condition Summary of Kyalla 117 N2 site

Table 10 Kyalla 117 N2-1 Condition Description

Site ID	Kyalla 117 N2-1	Habitat photos at central point of survey site (August 2018)	
Location	-16°50' 29.01, 133°39' 0.16		
Landform and soil	Plains and rises associated with deeply weathered profiles (laterite) including sand sheets and other depositional products, sandy and earth soils		
Habitat type	<i>Corymbia</i> low woodland		
Vegetation Community	<i>Corymbia</i> low woodland/ <i>Terminalia</i> (mixed) sparse shrubland/ <i>Chrysopogon</i> (mixed) low tussock grassland This vegetation community is considered regionally extensive and not subjected to extensive clearing		
Dominant flora species	Canopy dominated by <i>Corymbia dichromophloia</i> , <i>Eucalyptus setosa</i> . Shrub layer including <i>Acacia ancistrocarpa</i> , <i>Alphitonia pomaderoides</i> , <i>Brachychiton paradoxus</i> . Ground layer species include <i>Trodia bitextura</i>		
Habitat condition	Good condition with evidence of recent grazing. Vegetation appeared to heavily burnt in recent years. No evidence of hollow bearing trees and logs. The habitat contained moderate to high refuge opportunities in the form of dense leaf litter, tussock grass cover, and woody debris. Good continuous cover adjoining adjacent woodland habitat and regionally extensive. No evidence of weeds or feral animals.		
		Additional Habitat Photos across survey site (August 2018)	
Potential Listed Threatened Species	Grey Falcon, Northern Shrike-tit, Plains Death Adder, Gouldian Finch.	