



26 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: Lind Pugh*

Dear Sally Stromayr

**Update of a 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 a new fence line design.

The proposed modification to the fence line was recently identified during discussions with the Hayfield/ Shenandoah pastoralist. The original fence line was to be located within Origin's disturbance footprint, with the fence line following the outline of the lease pad, access track, camp pad and helipad (as described in Attachment 1). The pastoralist requested the fence design be modified to address the following points:

- The fence would be difficult to maintain, with too many corners and not enough room for a vehicle to drive on the outside to inspect.
- Cattle could become trapped in between the western fence line and the lease pad fence line.
- The new proposed design is something the pastoralist could beneficially re-use as a cattle holding yard post rehabilitation.

As a result of the consultation with the pastoralist, the fence line design is proposed to be modified as illustrated in Attachment 1 and Attachment 2. This will involve the installation of 1.4km of fence line, with a 4m cleared break to allow vehicle access. The alignment of the fence line will follow the boundary of the existing lease and camp pad where possible, however additional disturbance is required.

The proposed update will carry an increase in disturbance area of 0.56 hectare, with the total disturbance area for the Kyalla 117 N2 civil construction scope increasing from 8.7 ha to 9.26ha.

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**

Exploration Permit	Infrastructure Name	Station	Zone*	Approx Easting	Approx Northing	Disturbance Area (ha)
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
EP117	Fence line	Hayfield/Shenandoah	53	356494	8137708	0.56
<b>Total Disturbance Area (Ha)</b>						<b>9.26</b>

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 new 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 to the EMP.

#### Environment

- The proposed additional scope 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 3.
- 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 has 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 new disturbance is covered by Origin's current AAPA Certificate C2019/039, with the appropriate Native Title holder and NLC clearances obtained.
- **Stakeholder engagement:**
  - Stakeholder engagement has occurred to ensure the pastoralists are aware and consent to the proposed activities.

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

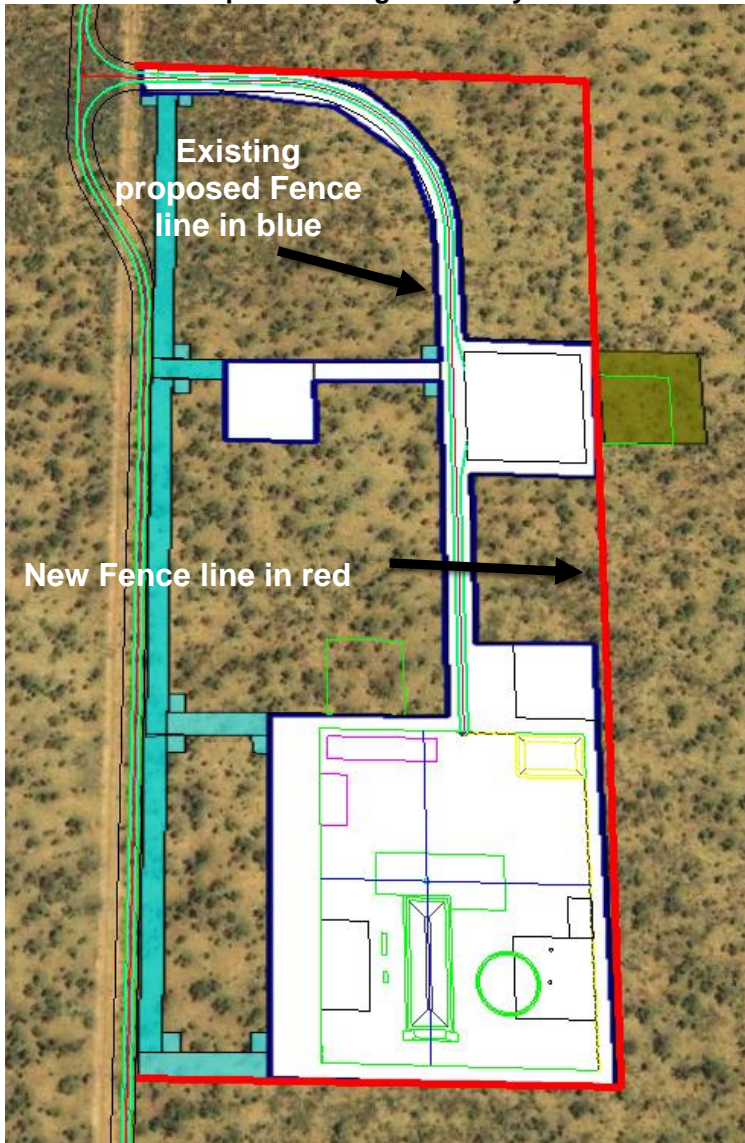
Kind Regards

A handwritten signature in black ink that reads "M. Hanson".

Matthew Hanson

Operations and Projects Manager- Growth Assets

**Attachment 1 Proposed change to the Kyalla 117 N2 fence line**









**Attachment 2- Map of Proposed Area**





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 pomaderroides</i> , <i>Brachychiton paradoxus</i> . Ground layer species include <i>Triodia 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.	