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Your ref: Our ref: 12568407

24 August 2022

Tom Hatfield APA Group 580 George Street Sydney, NSW 2000

Kurri Kurri Lateral Pipeline Air Quality Assessment – Addendum

Dear Tom,

A review of the Kurri Kurri Lateral Pipeline design has been completed and the Air Quality Impact Assessment¹ (the 'AQIA') has been updated to assess any changes to the design which influence the outcomes of the AQIA.

1. **Project design updates**

The updates to the project design which affect the AQIA include:

- Access track on Lot 2 DP 779342 wet weather track for truck access from Valley View Lane
- Access track on Lot 2 DP 1249763 track from Main Road to HDD pad
- Access track on Lot 2 DP 1276814 use of additional access track to HDD pad at KP 20.8
- Transmission pipeline at KP12.0 to the east of Buchanan Road Transmission pipeline alignment to be further north, adjacent to existing residential area
- JGN offtake facility to be located on the eastern side of Lenaghans Dr on Lot 453 DP 807778

2. Impact assessment

Assessment of each of the updates based on the nearest sensitive receptors is provided in Table 1. Both the previously identified sensitive receptors were assessed (refer Section 3.4 of the AQIA) as well as new sensitive receptors located within the buffer distances for compliance with the PM_{2.5} and PM₁₀ criteria.

The buffer distances calculated in Section 5.3 of the AQIA were used as an indicator for where compliance with the criteria would be achieved and where additional mitigation would be required. No additional modelling was completed.

The Level 1 watering (2 litres/m²/h) buffer distance indicates the distance from the project footprint outside of which no exceedances of the criteria are expected to occur assuming Level 1 watering is applied during works. Where receptors are located within this buffer distance, more than Level 1 watering (Level 2) should be applied. Similarly, the Level 2 (>2 litres/m²/h) watering buffer distance indicates the distance from the

¹ GHD. (2022, March). Air Quality Impact Assessment. *Kurri Kurri Lateral Pipeline Project*.

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project footprint outside of which no exceedances of the criteria are expected to occur assuming Level 2 watering is applied during works.

For scenario 5 (general construction of associated surface facilities) no watering was assumed to be applied, therefore one buffer distance value has been calculated (based on the total emissions from construction) outside of which no exceedances of the criteria are expected to occur.

Scenario	Alignment update	Sensitive receptor location(s)	Required buffer distance	Additional mitigation
1: Combined light and heavy vehicles on unpaved roads	Access track on Lot 2 DP 779342	232 Valley View Lane (R25)	Level 1 watering: 80 m Level 2 watering: 50 m Note: reduced buffer distance for this access track due to reduced number of vehicles.	<text><text><text></text></text></text>

 Table 1
 Additional mitigation requirements



Scenario	Alignment update	Sensitive receptor location(s)	Required buffer distance	Additional mitigation
1: Combined light and heavy vehicles on unpaved roads	Access track on Lot 2 DP 1249763	527 and 532 Main Road (R12 & R13)	Level 1 watering: 230 m Level 2 watering: 110 m	527 and 532 Main Road are located 175 m and 125 m from the access track respectively, both less than 230 m therefore Level 1 watering is not sufficient for compliance. Level 2 watering is required along the entire access track. The receptors are more than 110 m from the access track therefore Level 2 watering is expected to sufficiently mitigate any impacts.
1: Combined light and heavy vehicles on unpaved roads	Access track on Lot 2 DP 1276814	No receptors within Level 1 buffer distance.	Level 1 watering: 230 m Level 2 watering: 110 m	All receptors are further than 230 m from the access track. No additional mitigation required.



Scenario	Alignment update	Sensitive receptor location(s)	Required buffer distance	Additional mitigation
2: General construction of transmission pipeline and light vehicles on unpaved roads	Transmission pipeline at KP12.0 to the east of Buchanan Road	537 and 538 Louth Park Road 311, 319 and 325 Mount Vincent Road (R16)	Level 1 watering: 190 m Level 2 watering: 110 m	<text></text>
		325 Mount Vincent Road (R16)	Level 1 watering: 190 m Level 2 watering: 110 m	The nearest receptor is located 70 m from the transmission pipeline and therefore Level 2 watering is not sufficient. To mitigate impacts at this receptor, when working within 110 m of the receptor (approximately 140 m length of the transmission line indicated below) additional measures should be considered including: - Minimising works when the wind is blowing towards the receptor (from the south) - Minimise the number of vehicles and equipment in the area at any one time



Scenario	Alignment update	Sensitive receptor location(s)	Required buffer distance	Additional mitigation
5: General construction of associated surface facilities	Location update for JGN offtake facility	No receptors within the buffer distance.	160 m	All receptors are further than 160 m from the construction footprint. No additional mitigation required.

3. Management and mitigation

Based on the five updated locations included in latest design, Level 2 watering is recommended at three locations:

- Along a section of the access track on Lot 2 DP 779342
- Along the entire access track on Lot 2 DP 1249763
- Along a section of the updated transmission line at KP12.0 to the east of Buchanan Road.

Along the updated section of the transmission pipeline alignment, where works are being completed within 110 m of the nearest sensitive receptor (325 Mount Vincent Road), in addition to Level 2 watering, works should be minimised (including vehicle traffic) when the wind is blowing towards the receptor and dust is observed leaving construction site boundary.

This is in addition to the general mitigation which should be applied throughout construction as described in Section 6.1 of the AQIA, and the other areas requiring specific dust mitigation as described in Section 6.2 of the AQIA.

Operational and cumulative impacts (including odour) are unchanged. These are described in Sections 5.4.2 and 5.4.3 of the AQIA.

The residual air quality risks associated with the Project are minor.

Regards,

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