

INLAND RAIL PROJECT - NARRABRI TO NORTH STAR (N2NS)

SSI 7474 – 6 Monthly Construction Monitoring Report (May – October 2022)

Date:	10/01/2023
To:	Dominic Crinnion Director - Infrastructure Management Planning Services Level 17, 12 Darcy Street 4 Parramatta Square Parramatta NSW 2150
From:	Trans4m Rail Joint Venture 64 – 68 Balo Street Moree, NSW 2400
Project:	Inland Rail Narrabri to North Star SP1 (the “N2NS Project”)
Distribution:	Australian Rail Track Corporation (ARTC) N2NS Project Environmental Representative (Project ER) NSW Department of Planning and Environment (NSW DPE) NSW Environment Protection Authority (NSW EPA) Transport for NSW (TfNSW) NSW Natural Resource Access Regulator (NRAR) Narrabri Shire Council Gwydir Shire Council Moree Plains Shire Council
Attachments:	Attachment A: N2NS Project - Water Usage Results (May – October 2022) Attachment B: Depositional Dust Gauge Monitoring Results (incl. Certificate(s) of Analysis) Attachment C: Airborne Air Quality (PM10) Monitoring Results Attachment D: Air Quality Monitoring Locations Attachment E: Non-conformance Report (DDG Exposure Period) Attachment F: Noise Monitoring Results Attachment G: Noise Monitoring Locations Attachment H: Calibration Certificates Attachment I: Edgeroi Silos and Loading Facility - <i>TM815-02F01 Edgeroi vibration monitoring (r1), dated 29/7/2022</i> Attachment J: Ten Mile Creek Bridge Piling - <i>TM815-03F01 Ten Mile Creek vibration monitoring (r1), dated 29/7/2022</i> Attachment K: Bobbiwaa Creek Bridge Piling - <i>TM815-04F01 Bobbiwa Creek vibration monitoring (r1), dated 29/7/2022</i>

	<p>Attachment L: Bellata Vibration Monitoring Report – <i>TM815-05D01 Bellata Station Vibration Monitoring (r1), dated 08/12/2022</i></p> <p>Attachment M: Traffic Inspection Records</p>
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Construction works on the Narrabri to North Star SP1 Project (N2NS Project) commenced on the 10th April 2021 following the NSW Environment Protection Authority (NSW EPA) issuing the full Environment Protection Licence (EPL) on the 1st April and the Department of Planning, Industry and Environment (NSW DPIE) approving the Project’s Construction Environmental Management Plan (and Sub-Plans) on the 7th April 2021.

As detailed in the N2NS Project’s Condition of Approval (CoA) C14, the following Construction Monitoring Programs have been developed for the N2NS Project and are contained within the relevant Sub-Plans to the Construction Environmental Management Plan:

- Noise and Vibration Monitoring Program; as per Section 11 and Appendix E of the Construction Noise and Vibration Management Sub-Plan (CNVMP);
- Water Usage Monitoring Program; as per Section 7.2.1 of the Construction Soil and Water Management Sub-Plan (CSWMP);
- Air Quality Monitoring Program; as per Section 7.2.2 and Appendix D of the CSWMP; and
- Physical Condition of local roads Monitoring Program; as per Section 5 of the Construction Traffic, Transport and Access Management Sub-Plan (CTTAMP).

As required under CoA C20, this 6 Monthly Construction Monitoring Report has been prepared to summarise the results of these Construction Monitoring Programs.

The environmental works undertaken during this reporting period included the following:

- Review and update of the Project’s CEMP and Sub-plans (i.e. CEMP, Construction Biodiversity Management Sub-Plan and the Construction Noise and Vibration Management Sub-Plan).
- Development of the N2NS Project’s EPL Relinquishment Process.
- Preparation of environmental deliverables, including but not limited to: Certified Professional in Erosion and Sediment Control (CPESC) Certified Erosion and Sediment Control Plans, Site Environmental Plans, Clearing and Dewatering Permits and Out of Hours Applications for works within Stages 1, 2B and 3 of the N2NS Project.
- Establishment and maintenance of Erosion and Sediment Controls in accordance with the CPESC Certified Erosion and Sediment Control Plan within Stages 1, 2B and 3.
- Suitably licenced Spotter-catchers overseeing vegetation clearing activities within Stages 1, 2B and Stage 3.
- Vegetation clearing, slashing and weed management works through Stages 1, 2B and Stage 3.
- Trans4m Rail Environmental Personnel undertook numerous environmental inspections during the reporting period. This included general Environmental / Sustainability Inspections, Pre and Post Rainfall Inspections and targeted inspections with the Project’s CPESC, the Project’s Ecologist or the Project’s Environmental Representative (ER).
- Depositional Dust Gauge (DDG) Monitoring continued at 13 locations. In addition to this, airborne particulate (PM10) matter monitoring occurred at Bellata township during this reporting period.
- Construction-phase noise monitoring occurred at sensitive receiver locations within Stages 1 and 3.
- Instream water quality monitoring occurred at key locations across the project, in line with the Project’s surface water quality monitoring program and following significant rainfall events.
- Landscaping and stabilisation of disturbed areas progressed across the alignment (Stages 1, 2B and 3) during the reporting period.
- Removal of instream temporary works (i.e. temporary waterway crossings, piling pads, etc), including the controls to mitigate direct and indirect impacts to the receiving environment and waterbodies.
- Investigation and management of environmental incidents and events on the project.



Table 1: Results and / or findings of the Construction Monitoring Programs

<p>Noise and Vibration Monitoring Program</p>	<p><u>Vibration Monitoring</u> Section 11.4 of the CNVMP and the Project’s <i>Environmental Protection Licence</i> (EPL) identifies various situations where vibration monitoring is or may be required on the N2NS Project. These situations typically include:</p> <ul style="list-style-type: none"> - Work activities with the potential to generate significant vibration levels where the vibration screening criteria is likely to be exceeded. NOTE: The minimum working distances (vibration screening criteria) are based upon the vibration objectives in Section 7.4.1 (CNVMP) for “sound structures” being 7.5mm/s peak component particle velocity and in Section 7.4.2 (CNVMP) for “unsound structures” (i.e. unsound heritage building) 2.5mm/s peak component particle velocity. These include a 32 tonne compactor, being the most vibration intensive plant proposed to be used on the Project, with an indicative minimum working distance of 10 metres for sound structures and 20 m for unsound structures. - Vibration generating activities that have the potential to impact on heritage items. - Works occurring where vibration sensitive locations occur within the minimum working distances for the N2NS Project. - Where determined by a vibration assessment and reported in the relevant CNVIS. - Where vibration related complaint(s) are received. - Where directed to undertake monitoring by an authorised officer of the EPA. <p>During the May – October 2022 monitoring period, unattended vibration monitoring was undertaken on the following occasions:</p> <p><u>Edgeroi Silos and Loading Facility</u> - Two unattended vibration monitors were installed at Edgeroi to monitor the period between 6th May and 29th June 2022. Vibration monitors were installed at the Edgeroi Grain Silo and the associated Loading Facility to monitor vibration levels being experienced by these structures. These were installed prior to bulk earthworks occurring in the area.</p> <p>Based on the measured vibration data, the vibration levels produced from the dynamic compaction works were below the nominated criteria of 25mm/s which was not exceeded throughout the monitoring period.</p> <p>Refer to Attachment I for the full Vibration Monitoring Report.</p> <p><u>Ten Mile Creek – TfNSW Bridge (Newell Hwy)</u> - Two unattended vibration monitors were installed at Ten Mile Creek to monitor the period between 20th May and 17th June 2022. Vibration monitors were installed at the northern and southern ends (at the base) of the road bridge (Newell Hwy) to monitor the vibration levels experienced by the bridge structure throughout the vibration intensive impact piling works.</p>
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	<p>Based on the measured vibration data, the vibration levels produced from the piling works were below the nominated criteria of 25mm/s which was not exceeded throughout the monitoring period.</p> <p>Refer to Attachment J for the full Vibration Monitoring Report.</p> <p><u>Bobbiwaa Creek – TfNSW Bridge (Newell Hwy)</u> - Two unattended vibration monitors were installed at Bobbiwaa Creek to monitor the period between 17th June and 29th June 2022. Vibration monitors were installed at the northern and southern ends (at the base) of the road bridge (Newell Hwy) to monitor the vibration levels experienced by the bridge structure throughout the vibration intensive impact piling works.</p> <p>Based on the measured vibration data, the vibration levels produced from the piling works were below the nominated criteria of 25mm/s which was not exceeded throughout the monitoring period.</p> <p>Refer to Attachment K for the full Vibration Monitoring Report.</p> <p><u>Bellata Station & Silos</u> – Two unattended vibration monitoring were installed on the Bellata Station and the Bellata Silos to monitor the period between 28th July and 18th November 2022. Vibration monitors were installed on the existing railway platform and the footing of the silo to monitor the vibration experienced by these structures during the construction phase of the project.</p> <p>The results of the unattended vibration monitoring were typically below the established vibration screening criteria. There were events that resulted in an instantaneous vibration level of above the vibration screening criteria which have been deemed not characteristic of the construction works taking place or deemed not related to the construction works following further investigation.</p> <p>Refer to Attachment L for the full Vibration Monitoring Report.</p> <p><u>Noise Monitoring</u></p> <p>As per Section 11.3.2 of the Project’s Construction Noise and Vibration Management Sub-Plan, attended noise monitoring is to be undertaken on the following occasions:</p> <ul style="list-style-type: none"> - Attended construction-phase noise monitoring will be carried out (6 monthly during possession) during activities for which a location and activity specific noise impact assessment has been prepared to confirm that actual noise levels are consistent with noise impact predictions and that the management measures that have been implemented are appropriate; - Prior to the applicable construction works, the noise levels of typical plant and equipment, including rental equipment, would be checked against the levels included in the CNVIS to ensure that equipment will operate at or below the assumed noise levels;
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	<ul style="list-style-type: none"> - To verify high noise impact works (above 75 dB(A)) at the nearest sensitive receiver noted in the Land Use Survey in the NVMP to confirm if respite periods are required; - Where appropriate, in response to a noise related complaint(s) (determined on a case-by- case basis) and in accordance with the OOHW Protocol or EPL; - As directed by an authorised officer of the EPA; - As otherwise required by the CNVIS, OOHW Protocol or EPL; - Following the implementation of mitigation measures or noise attenuation as a result of an exceedance of predicted noise levels; and - 12 monthly spot checks for noise intensive plant and equipment will be undertaken throughout construction to ensure compliance with the assumed noise levels in the applicable CNVIS. <p>In addition to the above list, noise monitoring can also be undertaken to assist in identifying and/or managing high risk noise events, such as during school examination periods, or as required by an EPL.</p> <p>During the May – October 2022 monitoring period, attended noise monitoring was undertaken on the following occasions:</p> <p>28th June 2022 – Construction-phase attended noise monitoring occurred adjacent the most impacted residential sensitive receivers within Stage 1 & Stage 2B. These locations included: Edgeroi, Gurley Settlers Road, Jalmar Park (CH618), Mardell and Bellata.</p> <p>12th July 2022 – Construction activity-specific attended noise monitoring occurred within Stage 3. These activities included: Rail declipping occurring at CH707.26, an excavator loading a truck at CH734.92, a ballast wagon drop at CH735.28, a grader operating at CH755.65 and a roller operating at CH755.65.</p> <p>27th July 2022 – Construction-phase attended noise monitoring occurred adjacent the most impacted sensitive receivers within Stage 1. These locations included; CH581.000 – Murrumbilla Lane, CH586.100 – Junefield Lane, CH590.200 – Smithfield Lane, CH593.500 – Queen St, Edgeroi, CH603.000 – The Clump Road, CH609.200 – Valorban Lane (taken from Ten Mile Lane), CH605.000 – Bellata, CH620.000 Truck Stop and CH625480 – Penney’s lane.</p> <p>26th September 2022 – Construction-phase attended noise monitoring occurred adjacent the most impacted sensitive receivers within Stage 1. These locations included; CH586.100 – Junefield Lane, CH590.200 – Smithfield Lane, CH607.400 – Trevana Lane, CH605.000 – Bellata and CH625480 – Penney’s lane</p> <p>This attended noise monitoring was undertaken in accordance with Sections 11.3.2 – 11.3.4 of the CNVMP, using a calibrated Class 1 Sound Level Meter (Rion NL-52) and performed by suitably qualified and trained Environmental Professionals.</p>
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	<p>Refer to Attachment F / G for further information.</p> <p>This monitoring identified the following:</p> <ul style="list-style-type: none"> - During the attended noise monitoring on the 28th June, 27th July and the 26th September, the Noise Management Level (NML) adopted for the N2NS Project (40dB) was exceeded at all monitoring locations. - The observations and contemporaneous notes taken during the noise monitoring indicated that at all locations the predominant noise source, was from non-construction sources (i.e. Newell Hwy traffic, birds calling, dogs barking, non-Project related traffic and / or wind). <p>As per the Interim Construction Noise Guideline (ICNG) (DECC, 2009), where an exceedance of the Project’s NML is related to construction activities, the following measures are to be implemented:</p> <ul style="list-style-type: none"> - <i>Apply all feasible and reasonable work practices to meet the noise affected level.</i> In this case the measures detailed in Section 10 of the N2NS Project’s CNVMP will continue to be implemented. In addition to this, work is currently being undertaken on the N2NS Project to reduce the idling times of all plant and equipment on the Project and reduce non-essential noise sources; and - <i>Inform all potentially impacted residents of the nature of works to be carried out, the expected noise levels and duration, as well as contact details.</i> The N2NS Project’s Community and Stakeholder Engagement Team notify, consult and inform all potentially impacted residential receivers and OSR prior to and during construction works occurring. Consultation works are being undertaken in accordance with the Project’s Community and Stakeholder Engagement Management Plan (CSEMP). <p>In addition to these requirements, construction phase noise monitoring will continue to occur on the project where construction noise is likely to affect residential and / or OSR.</p>
<p>Water Usage Monitoring Program</p>	<p>Environmental monitoring, in particular that of construction water usage, has been conducted for the duration of the construction phase of the Project as required under CoA C14 (b) and RMM C7.2. As per the Inland Rail Construction Water Plan Narrabri to North Star (Golder Associates, January 2020) a total of approximately 1,215ML of construction water was estimated to be used for the construction of the N2NS Project. However, the strategies developed by Trans4m Rail suggest that this will be significantly reduced. The aforementioned SSI monitoring seeks to establish the water usage volume by measuring the water usage on the N2NS Project.</p> <p>Trans4m Rail’s construction water strategy has been modified since the commencement of the Project. Construction water was initially proposed to be sourced from municipal supplies (both potable and non-potable); however Trans4m Rail has since developed contracts with numerous landholders along the alignment for the purchase of local farm dam water. In addition, a substantial amount of captured stormwater</p>



	<p>(from numerous floods and rain events since the commencement of construction) has also been used during the construction process.</p> <p>The construction water usage for the May – October 2022 reporting period include:</p> <table border="1" data-bbox="625 499 1254 602"> <tr> <td>Potable Water</td> <td>10,807.75 KL</td> </tr> <tr> <td>Non-Potable Water</td> <td>48,967.53 KL</td> </tr> <tr> <td>Total Water Use</td> <td>59,775.28 KL</td> </tr> </table> <p>The non-potable water is utilised for dust suppression, lime slacking and compaction and although at the outset of the project potable water was also used for these purposes it is now primarily used for on-site amenities only.</p> <p>The output is collated from water cart data, which outlines a number of aspects regarding the water usage including: the provider, the load volume, the source or origin of the water, the number of loads and the final destination and use of the water. This information is further separated based on whether water is potable or non-potable and individual entries are recorded for each provider to ascertain any trends that may be occurring.</p> <p>Whilst the data collection occurs on a daily basis this information is also collated on a monthly basis to be reported against baseline data to ARTC. Furthermore, this monthly data is analysed to see emerging trends within the Project for water usage and determine if any additional mitigation measures are required. The data so far reveals an overwhelming usage of non-potable water as opposed to potable water primarily due to the significant rainfall experienced throughout the region.</p> <p>The results of this monitoring are provided in Attachment A.</p>	Potable Water	10,807.75 KL	Non-Potable Water	48,967.53 KL	Total Water Use	59,775.28 KL
Potable Water	10,807.75 KL						
Non-Potable Water	48,967.53 KL						
Total Water Use	59,775.28 KL						
<p>Air Quality Physical</p>	<p>Depositional Dust Gauges (DDGs) were established at 3 locations on the N2NS project in February 2021 in accordance with the Depositional Dust Monitoring Procedure in the Project’s Construction Soil and Water Management Sub-Plan (CSWMP). The intent of the gauges were to capture background air quality (deposited dust) prior to construction activities commencing and throughout the construction process. A further 6 DDG’s were installed in Stage 3 in December 2021 and another 5 DDG’s in Stages 1 and 3 in February / March 2022. The Gurley DDG was decommissioned in March 2022 due to the completion of works in the area.</p> <p>The locations of these DDGs were generally selected based on the requirements of Appendix D of the Project’s CSWMP, the <i>A/NZS3580.1.1:2007: Methods for sampling and analysis of ambient air, Part 1.1: Guide to siting air monitoring equipment</i> and the EPL for the Project. The locational criteria considered during the selection of the monitoring locations included:</p>						



	<ul style="list-style-type: none"> - General dust catchment areas along the alignment based on the scale and nature of the construction activities occurring in the area and the density, location and proximity of surrounding sensitive receivers. - The local meteorological data and wind roses provided in the Project EIS. - The selected DDG locations are considered representative of the surrounding locations, taking into account all environmentally sensitive areas in the receiving environment. <p>Locations were selected to avoid the following (where possible):</p> <ul style="list-style-type: none"> - Where airflow is restricted, such as behind trees or structures. DDG's should have a minimum clear sky angle of 120°. - Surrounding and / or overhanging objects that might alter the dust deposition rate, such as leafy vegetation, buildings and other structures. - Interference that may occur from surrounding land uses i.e. farming, industry or unsealed access roads, etc. - Locations that are visible and accessible by the public to avoid DDGs being tampered with. <p>Monitoring locations have also been selected based on the requirements of the Project's EPL. EPL Condition P1.1, states that depositional dust monitoring must be undertaken "<i>Adjacent to the most affected sensitive receivers nearby construction works</i>".</p> <p>NOTE: The DDG locations selected on the Project comply with the locational criteria detailed above with the exception of the interference criteria. The entire N2NS alignment is in close proximity (typically <200m) to surrounding land uses (i.e. large scale intensive agriculture) that may interfere with the results. In addition to this, the DDG established adjacent Crooble Road is in close proximity to the unsealed Crooble Road. This location was selected as it's adjacent 2 sensitive receivers on Crooble Road as per the EPL (Condition P1.1) requirement.</p> <p>The adopted air quality criteria for depositional dust gauge monitoring is shown below:</p> <table border="1" data-bbox="603 1688 1337 1827"> <thead> <tr> <th>Pollutant</th> <th>Averaging period</th> <th>Criteria</th> </tr> </thead> <tbody> <tr> <td>Dust Deposition^c</td> <td>Annual</td> <td>2 g/m²/month^a 4 g/m²/month^b</td> </tr> </tbody> </table> <p>a. Maximum increase in deposited dust level. b. Maximum total deposited dust level. c. Dust is assessed as insoluble solids as defined by AS 3580.10.1-1991 (AM-19).</p> <p>The full results of the DDG monitoring are provided in Attachment B.</p>	Pollutant	Averaging period	Criteria	Dust Deposition ^c	Annual	2 g/m ² /month ^a 4 g/m ² /month ^b
Pollutant	Averaging period	Criteria					
Dust Deposition ^c	Annual	2 g/m ² /month ^a 4 g/m ² /month ^b					

	<p>The DDG monitoring during this period identified that the annual average dust deposition rate for all monitoring locations was <math><4\text{g}/\text{m}^2/\text{month}</math> with the exception of the Crooble and Croppa Creek monitoring locations. NOTE: 12 months of data not available for these DDGs. These levels are largely attributable to the Oct 22 dust deposition results, of 39.3 and 41.1 $\text{g}/\text{m}^2/\text{month}</math> for the Crooble and Croppa Creek sites, respectively. Considering the high rainfall experienced during the month of Oct 22, these results are considered abnormally high and it's suspected these elevated levels are a result of one or more of the following:$</p> <ul style="list-style-type: none"> - DDG's may potentially have been tampered with; and / or - The unsealed road adjacent the Crooble and Croppa Creek DDG locations; and / or - Commencement of the harvest season and stockpiling / movement of grain into the laydown area directly adjacent the Crooble location and into the silos at Croppa Creek; and / or - Mowing / slashing of the area surrounding the sensitive receiver (and DDG) at Crooble. <p>Both the Crooble and Croppa Creek DDG locations are subject to interference from surrounding land uses (i.e. large scale agriculture occurring within 200m of the monitoring location, carting and stockpiling of grain and an unsealed access road adjacent both DDG monitoring stations). Regardless, following the results identified above, the below actions have been taken by the Project:</p> <ul style="list-style-type: none"> - Additional dust management measures (i.e. increased watercarts and stabilisation of exposed soils) have been undertaken at these (and other) locations on-site. - The Project workforce has been toolboxed regarding dust generating activities and where required, adjusting activities to suit. This includes slowing down light and heavy vehicles where excessive dust is being generated. - DDG monitoring will continue at these locations. <p>During a recent review of the depositional dust gauge monitoring results for the Project it was identified that multiple monitoring occasions were outside the typical exposure period detailed in AS3580.1 and Appendix D (Air Quality Monitoring Program (incl. Depositional Dust Monitoring Procedure)) of the Project's Soil and Water Management Sub-Plan. The root cause for these non-compliances include:</p> <ul style="list-style-type: none"> - T4MR resource constraints and DDG collection occurring in line with other, competing priorities. - Croppa Creek (June), the collection of the DDG being missed during the May sampling round.
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A Non-Conformance Report has been generated and attached for additional information.

NOTE: Reoccurring calendar invites have been previously circulated to remind relevant Project personnel of the pending DDG Bottle exchange. This will be checked to ensure the timing of this reminder is adequate.

To avoid recurrence of this, the relevant T4MR Project Personnel has also been trained in the requirement to deploy and collect DDG's within the specified timeframes (30days +/- 2 days).

Airborne Particulate Matter (PM10) monitoring continued to be undertaken during the reporting period.

The adopted pollutant criteria for PM10 monitoring on the N2NS Project is detailed below.

Pollutant	Averaging period	Criteria ¹
PM10	24 Hours	50 µg/m ³

1. Based on the Air NEPM and the Approved Methods

During the reporting period, PM10 airborne air quality monitoring was undertaken at Bellata and Croppa Creek during the following periods:

- 6th – 14th May 2022 – Croppa Creek (complaint-based monitoring).
- 11th July 2022 - Bellata.
- 30th July – 2nd August 2022 - Bellata.
- 5th – 17th August 2022 - Bellata.
- 22nd – 23rd August 2022 - Bellata.
- 26th August 2022 - Bellata.
- 30th August – 3rd September 2022 - Bellata.
- 9th – 26th September 2022 - Bellata.

NOTE: Due to flow issues (blockages of the pre-filter) experienced with the monitoring equipment during the reporting period, PM10 monitoring was undertaken periodically and not continuous, as anticipated.

The flow issues experienced causes the equipment to stop monitoring and requires cleaning of the pre-filter and restarting of the monitoring event.

To avoid recurrence of this, T4MR will inspect the monitoring equipment on a twice weekly basis to ensure continuous monitoring occurs.

Complaint based PM10 monitoring occurred at Croppa Creek (6th – 14th May) following a dust-related complaint on the 05/05/2022. During this monitoring, airborne air quality was observed to be below the adopted criteria (24hr rolling average of 50µg/m³).



	<p>During all other above-listed monitoring events, airborne air quality was observed to be below the adopted criteria (24hr rolling average of 50µg/m³).</p> <p>During the next reporting period, the PM10 airborne air quality monitoring equipment will be deployed in the township of North Star ahead of works recommencing in and around the township. NOTE: The N2NS Project’s Monitoring and Discharge Schedule will be updated and submitted to the EPA prior to monitoring commencing at this location.</p>
<p>Local Road Condition Monitoring Report</p>	<p>During the May – October 2022 reporting period, the condition of local roads was inspected on the following occasions:</p> <p><u>May 2022</u> 17th May 2022 – Weekly Traffic Inspection – Stage 1 (Various Locations). 19th, 20th 21st May 2022 – Weekly Traffic Inspection – Stage 1 (Various Locations). 28th May 2022 – Weekly Traffic Inspection – Stage 1 (Various Locations). 31st May 2022 – Weekly Traffic Inspection – Stage 1 (Various Locations).</p> <p><u>June 2022</u> 8th June 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations). 19th June 2022 – Weekly Traffic Inspection – Stage 1 (Various Locations). 21st June 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations). 26th June 2022 – Weekly Traffic Inspection – Stage 1 (Various Locations). 29th June 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations).</p> <p><u>July 2022</u> 10th July 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations). 17th July 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations) 24th July 2022 - Weekly Traffic Inspection – Stage 1 & 2B (Various Locations). 27th July 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations).</p> <p><u>August 2022</u> 01st August 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations). 07th August 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations). 17th August 2022 - Weekly Traffic Inspection – Stages 1 & 2B (Various Locations). 24th August 2022 - Weekly Traffic Inspection – Stages 1 & 2B (Various Locations).</p> <p><u>September 2022</u> 7th September 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations). 14th September 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations). 21st September 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations).</p>

	<p>28th September 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations).</p> <p><u>October 2022</u></p> <p>05th October 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations).</p> <p>12th October 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations).</p> <p>19th October 2022 - Weekly Traffic Inspection – Stage 1 (Various Locations).</p> <p>26th October 2022 – Weekly Traffic Inspection – Stage 1 (Various Locations).</p> <p>In addition to these weekly inspections, the following inspections also occurred during the reporting period:</p> <ul style="list-style-type: none"> - Daily drive-throughs were undertaken by T4MR Traffic Manager (or delegate) of selected roads with these drive-throughs recorded via an in-vehicle camera; - Joint T4MR / Moree Plains Shire Council (MPSC) Dilapidation Inspections occurred on a monthly basis of local roads utilised by the N2NS Project within the MPSC LGA; and - Dilapidation Inspections are undertaken by T4MR Traffic Manager (or delegate) on a monthly basis of local roads utilised by the N2NS Project within the Gwydir Shire Council LGA. <p>Any damage or defects identified during the above-mentioned inspections were recorded and appropriate actions taken. These actions include:</p> <ul style="list-style-type: none"> - Repair the damage (scouring and washout) to the existing causeways along Yamboon Lane caused by recent rain / flood events. These works also included a grade of Yamboon Lane. These works are currently occurring. - Repair the damage and stabilise an existing causeway on Wongabindie Road that was impacted by recent rain / flood events. This work was completed in Nov 2022. - Repair the damage and stabilise an existing causeway on Calimpa Road that was impacted by recent rain / flood events. This work was completed in Nov 2022. - Stabilise (sheeted with gravel materials) and regraded Alma Lane (between the rail alignment and County Boundary Rd). These works were completed in Nov 2022.
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The environmental focus for the next reporting period includes:

- Completion works, waste removal and landscape preparation works through Stages 1 and 3. This includes resource recovery and re-use in line with the relevant resource recovery order and exemptions and discussions with the NSW EPA.
- Progressive stabilisation of the site via the implementation of the landscape treatment design for all disturbed areas within Stages 1 and 3.
- Progressive removal of the environmental controls (i.e. erosion and sediment controls, no-go zone signage and flagging, Five-clawed Worm Skink relocation areas, etc) through Stage 1, 2B and 3.



- Post-construction weed assessment and management activities through Stages 1, 2A, 2B and 3.
- Commence the Project's EPL relinquishment process (i.e. groundcover assessments, waste and contamination inspections, etc).

Please don't hesitate to contact me should you have any further questions in relation to this report.

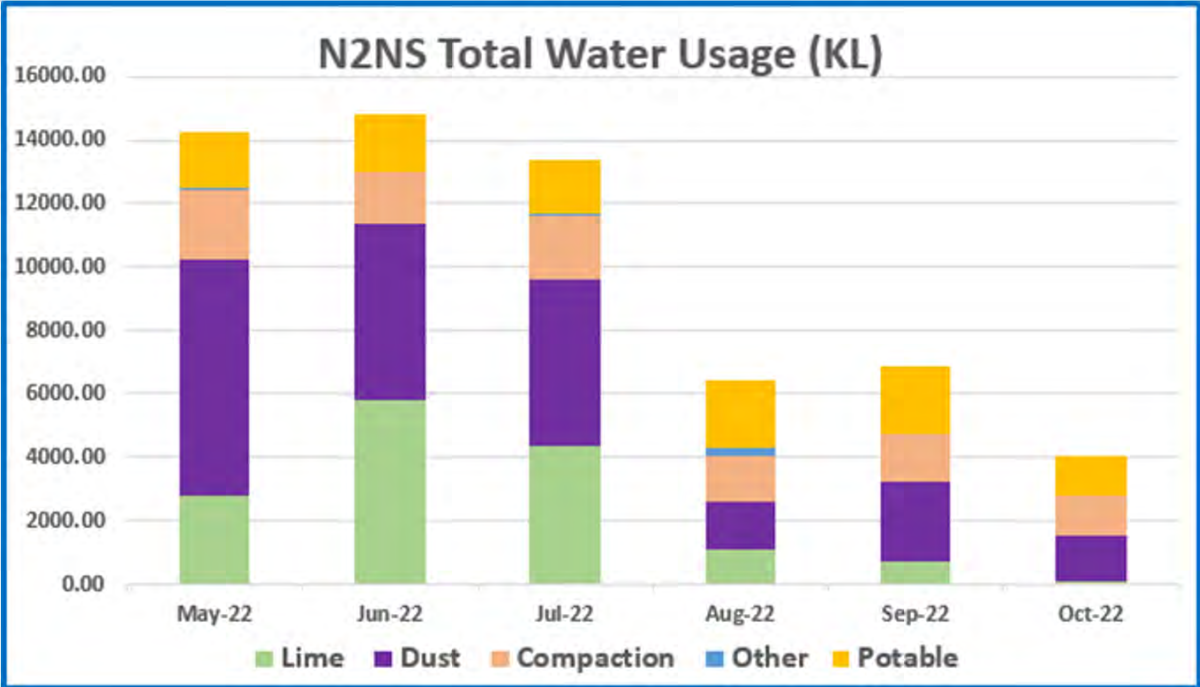
Yours sincerely



Adam Playne
Senior Environmental Advisor
Trans4m Rail

ATTACHMENTS

Attachment A: N2NS Project - Water Usage Results (May – October 2022)



Attachment B: Depositional Dust Gauge Monitoring Results (incl. Certificate(s) of Analysis)

Monitoring Period	PAD 2	PAD 4	Gurley	Crooble	Croppa Creek	Croppa / North Star Int.	North Star	Royden Road	Milguy	Wongabindi	Spring Creek	Edgeroi	Tookey Creek	Pan Creek
Units	Total Insoluble Matter (g/m ² /month)													
Criteria	4 g/m ² /month - Annual Averaging Period													
Feb-21	0.3	4.4	1.1	-	-	-	-	-	-	-	-	-	-	-
Mar-21	0.7	0.4	0.5	-	-	-	-	-	-	-	-	-	-	-
Apr-21	2.0	1.6	0.8	-	-	-	-	-	-	-	-	-	-	-
May-21	0.4	1.0	0.5	-	-	-	-	-	-	-	-	-	-	-
Jun-21	1.3	0.5	1.2	-	-	-	-	-	-	-	-	-	-	-
Jul-21	1.0	0.2	0.2	-	-	-	-	-	-	-	-	-	-	-
Aug-21				-	-	-	-	-	-	-	-	-	-	-
Sep-21	1.5	2.9	0.8	-	-	-	-	-	-	-	-	-	-	-
Oct-21				-	-	-	-	-	-	-	-	-	-	-
Nov-21				-	-	-	-	-	-	-	-	-	-	-
Dec-21	0.7	1.0	0.5	1.9	0.1	2.1	4.0	2.1	1.2	-	-	-	-	-
Jan-22	0.7	0.8	0.5	7.9	1.6	0.3	1.6	0.3	0.9	-	-	-	-	-
Feb-22	0.8	0.7	1.2	7.1	2.2	13.2	2.4	3.1	1.4	1.4	-	-	-	-
Mar-22	0.5	0.8	Decom.	4.7	4.0	4.7	2.2	1.2	1.5	5.4	3.6	3.8	2.5	1.8
Apr-22	0.2	0.4	Decom.	3.6	15.4	2.3	1.1	0.7	0.9	4.4	2.4	4.3	4.8	1.0
May-22	0.3	4.7	Decom.	10.7	-	2.3	1.5	5.6	0.9	1.9	2.5	3.3	6.4	0.3
Jun-22	0.3	2.4	Decom.	1.1	2.9	2.6	0.8	2.4	-	2.6	4.1	3.7	4.4	0.8
Jul-22	0.6	2.8	Decom.	8.4	1.4	1.6	0.9	3.3	1.0	1.3	2.9	3.2	4.4	1.5
Aug-22	1.4	1.5	Decom.	3.6	2.6	1.8	1.0	0.7	2.4	2.6	2.6	2.7	3.6	1.7
Sep-22	0.7	0.5	Decom.	6.9	2.3	2.7	0.7	1.1	2.0	0.5	5.2	2.9	2.3	1.3
Oct-22	0.3	4.3	Decom.	39.3	41.1	1.3	0.6	3.8	1.2	1.0	1.6	0.6	1.9	1.8
Annual Average	0.7	1.9	0.8	8.7	7.4	3.2	1.5	2.2	1.3	2.3	3.1	3.1	3.8	1.3

Pollutant	Averaging period	Criteria
Dust Deposition ^c	Annual	2 g/m ² /month ^a
		4 g/m ² /month ^b

a. Maximum increase in deposited dust level.

b. Maximum total deposited dust level.

c. Dust is assessed as insoluble solids as defined by AS 3580.10.1-1991 (AM-19).

Underlined data is non-compliant with typical exposure period of 30 +/- 2 days as per AS3580.10.1



CERTIFICATE OF ANALYSIS

Work Order	: EN2206017	Page	: 1 of 5
Client	: Trans 4 M Rail Joint Venture	Laboratory	: Environmental Division Newcastle
Contact	: Pippa Donaldson	Contact	:
Address	: 64-68 Balo Street Moree 2400	Address	: 5/585 Maitland Road Mayfield West NSW Australia 2304
Telephone	: ----	Telephone	: +61 2 4014 2500
Project	: Narrabri 2 North Star	Date Samples Received	: 24-Jun-2022 10:00
Order number	: ----	Date Analysis Commenced	: 28-Jun-2022
C-O-C number	: ----	Issue Date	: 12-Jul-2022 11:23
Sampler	: Georgia Butler		
Site	: ----		
Quote number	: EN/333		
No. of samples received	: 12		
No. of samples analysed	: 12		



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Signatories

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<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Thomas Regan	Laboratory Technician	Newcastle - Inorganics, Mayfield West, NSW



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

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Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
∅ = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in g/m².mth as sampling data was provided by the client.
- Sample exposure period for 007 and 008 is 34 days which is outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1.
- For dust analysis, the Limit of Reporting (LOR) referenced in the reports for deposited matter parameters represents the reporting increment rather than reporting limit.



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Pad 2 02/05/22 - 01/06/22	Pad 4 02/05/22 - 01/06/22	Crooble 03/05/22 - 02/06/22	Milguy 03/05/22 - 02/06/22	Wongabindie Rd 03/05/22 - 02/06/22
Sampling date / time				01-Jun-2022 00:00	01-Jun-2022 00:00	02-Jun-2022 00:00	02-Jun-2022 00:00	02-Jun-2022 00:00
Compound	CAS Number	LOR	Unit	EN2206017-001	EN2206017-002	EN2206017-003	EN2206017-004	EN2206017-005
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	0.3	4.7	10.7	0.9	1.9
Total Insoluble Matter (mg)	----	2	mg	5	83	189	16	33



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Roydon Rd 03/05/22 - 02/06/22	North Star Town 03/05/22 - 06/06/22	North Star/ Croppa LX 03/05/22 - 06/06/22	Spring Ck CH582.870 01/05/22 - 02/06/22	Pad 6 01/05/22 - 02/06/22
Sampling date / time				02-Jun-2022 00:00	06-Jun-2022 00:00	06-Jun-2022 00:00	02-Jun-2022 00:00	02-Jun-2022 00:00
Compound	CAS Number	LOR	Unit	EN2206017-006	EN2206017-007	EN2206017-008	EN2206017-009	EN2206017-010
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	5.6	1.5	2.3	2.5	6.4
Total Insoluble Matter (mg)	----	2	mg	99	30	47	48	121



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Edgeroi CH593.380	Pan Creek CH603.870			
				01/05/22 - 02/06/22	02/05/22 - 02/06/22	----	----	----
				02-Jun-2022 00:00	02-Jun-2022 00:00	----	----	----
<i>Compound</i>	<i>CAS Number</i>	<i>LOR</i>	<i>Unit</i>	EN2206017-011	EN2206017-012	-----	-----	-----
				Result	Result	---	---	---
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	3.3	0.3	----	----	----
Total Insoluble Matter (mg)	----	2	mg	62	6	----	----	----

CERTIFICATE OF ANALYSIS

Work Order : EN2206964 Client : Trans 4 M Rail Joint Venture Contact : Pippa Donaldson Address : 64-68 Balo Street Moree 2400 Telephone : ---- Project : Narrabri 2 North Star Order number : ---- C-O-C number : ---- Sampler : Georgia Butler Site : ---- Quote number : EN/333 No. of samples received : 12 No. of samples analysed : 12	Page : 1 of 5 Laboratory : Environmental Division Newcastle Contact : Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Telephone : +61 2 4014 2500 Date Samples Received : 19-Jul-2022 15:00 Date Analysis Commenced : 25-Jul-2022 Issue Date : 23-Aug-2022 10:45
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<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Thomas Regan	Laboratory Technician	Newcastle - Inorganics, Mayfield West, NSW



General Comments

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LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
∅ = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in g/m².mth as sampling data was provided by the client.
- Sample exposure period for 001, 002, 005, 006 and 009-012 is 33 days which is outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1.
- Sample exposure period for 003 is 63 days which is outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1.
- For dust analysis, the Limit of Reporting (LOR) referenced in the reports for deposited matter parameters represents the reporting increment rather than reporting limit.



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Pad 2	Pad 4	Croppa Creek Town	Crooble	Wongabindie Rd
				01/06/22-04/07/22	01/06/22-04/07/22	03/05/22-05/07/22	06/06/22-05/07/22	02/06/22-05/07/22
				04-Jul-2022 00:00	04-Jul-2022 00:00	04-Jul-2022 00:00	04-Jul-2022 00:00	04-Jul-2022 00:00
<i>Compound</i>	<i>CAS Number</i>	<i>LOR</i>	<i>Unit</i>	EN2206964-001	EN2206964-002	EN2206964-003	EN2206964-004	EN2206964-005
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	0.3	2.4	2.9	1.1	2.6
Total Insoluble Matter (mg)	----	2	mg	6	47	109	19	51



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Roydon Rd 02/06/22-05/07/22	North Star Town 06/06/22-05/07/22	North Star Croppa LX 06/06/22-05/07/22	CH593.38 "Edgeroi" 01/06/22-04/07/22	Pad 6 01/06/22-04/07/22
Sampling date / time				04-Jul-2022 00:00	04-Jul-2022 00:00	04-Jul-2022 00:00	04-Jul-2022 00:00	04-Jul-2022 00:00
Compound	CAS Number	LOR	Unit	EN2206964-006	EN2206964-007	EN2206964-008	EN2206964-009	EN2206964-010
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	2.4	0.8	2.6	3.7	4.4
Total Insoluble Matter (mg)	----	2	mg	46	14	44	71	86



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				CH582.870 "Spring Creek" 01/06/22-04/07/22	CH602.870 01/06/22-04/07/22	----	----	----
				04-Jul-2022 00:00	04-Jul-2022 00:00	----	----	----
Compound	CAS Number	LOR	Unit	EN2206964-011	EN2206964-012	-----	-----	-----
				Result	Result	---	---	---
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	4.1	0.8	----	----	----
Total Insoluble Matter (mg)	----	2	mg	79	16	----	----	----

CERTIFICATE OF ANALYSIS

Work Order : EN2207667 Client : Trans 4 M Rail Joint Venture Contact : Pippa Donaldson Address : 64-68 Balo Street Moree 2400 Telephone : ---- Project : Narrabri 2 North Star Order number : ---- C-O-C number : ---- Sampler : Georgia Butler Site : ---- Quote number : EN/333 No. of samples received : 13 No. of samples analysed : 13	Page : 1 of 5 Laboratory : Environmental Division Newcastle Contact : Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Telephone : +61 2 4014 2500 Date Samples Received : 09-Aug-2022 11:00 Date Analysis Commenced : 15-Aug-2022 Issue Date : 23-Aug-2022 10:45
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<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Thomas Regan	Laboratory Technician	Newcastle - Inorganics, Mayfield West, NSW



General Comments

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LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
∅ = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in g/m².mth as sampling data was provided by the client.
- Sample exposure period for 005 is 26 days which is outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1.
- Sample exposure period for 002 is 35 days which is outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1.
- For dust analysis, the Limit of Reporting (LOR) referenced in the reports for deposited matter parameters represents the reporting increment rather than reporting limit.



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Pad 2 04/07/22 - 03/08/22	Pad 4 04/07/22 - 08/08/22	Croppa Creek Town 05/07/22 - 02/08/22	Crooble 05/07/22 - 04/08/22	Milguy Silos 07/07/22 - 02/08/22
Sampling date / time				03-Aug-2022 00:00	08-Aug-2022 00:00	02-Aug-2022 00:00	04-Aug-2022 00:00	02-Aug-2022 00:00
Compound	CAS Number	LOR	Unit	EN2207667-001	EN2207667-002	EN2207667-003	EN2207667-004	EN2207667-005
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	0.6	2.8	1.4	8.4	1.0
Total Insoluble Matter (mg)	----	2	mg	10	57	23	148	16



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Wongabindie 05/07/22 - 02/08/22	Roydon Rd 05/07/22 - 02/08/22	North Star town 05/07/22 - 04/08/22	Croppa Moree Caravan 05/07/22 - 04/08/22	Edgeroi Silos 04/07/22 - 03/08/22
Sampling date / time				02-Aug-2022 00:00	02-Aug-2022 00:00	04-Aug-2022 00:00	04-Aug-2022 00:00	03-Aug-2022 00:00
Compound	CAS Number	LOR	Unit	EN2207667-006	EN2207667-007	EN2207667-008	EN2207667-009	EN2207667-010
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	1.3	3.3	0.9	1.6	3.2
Total Insoluble Matter (mg)	----	2	mg	22	55	16	29	57



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Pad6/Tookey Creek 04/07/22 - 03/08/22	Spring Creek 04/07/22 - 02/08/22	Pan Creek 602.82 04/07/22 - 02/08/22	----	----
Sampling date / time				03-Aug-2022 00:00	02-Aug-2022 00:00	02-Aug-2022 00:00	----	----
Compound	CAS Number	LOR	Unit	EN2207667-011	EN2207667-012	EN2207667-013	-----	-----
				Result	Result	Result	----	----
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	4.4	2.9	1.5	----	----
Total Insoluble Matter (mg)	----	2	mg	77	49	26	----	----

CERTIFICATE OF ANALYSIS

Work Order : EN2208863 Client : Trans 4 M Rail Joint Venture Contact : Pippa Donaldson Address : 64-68 Balo Street Moree 2400 Telephone : ---- Project : Narrabri 2 North Star Order number : ---- C-O-C number : ---- Sampler : Georgia Butler Site : ---- Quote number : EN/333 No. of samples received : 13 No. of samples analysed : 13	Page : 1 of 5 Laboratory : Environmental Division Newcastle Contact : Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Telephone : +61 2 4014 2500 Date Samples Received : 09-Sep-2022 09:30 Date Analysis Commenced : 12-Sep-2022 Issue Date : 07-Oct-2022 12:50
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<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Zoran Grozdanovski	Laboratory Operator	Newcastle - Inorganics, Mayfield West, NSW



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LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
∅ = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in g/m².mth as sampling data was provided by the client.
- Sample exposure period for 002 is 25 days which is outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1.
- For dust analysis, the Limit of Reporting (LOR) referenced in the reports for deposited matter parameters represents the reporting increment rather than reporting limit.



Analytical Results

Sub-Matrix: DEPOSITIONAL DUST
 (Matrix: AIR)

Sample ID

				Pad 2 03/08/22 - 02/09/22	Pad 4 08/08/22 - 02/09/22	Croppa Town 02/08/22 - 01/09/22	Crooble 04/08/22 - 01/09/22	Milguy Silos 02/08/22 - 01/09/22
Sampling date / time				02-Sep-2022 00:00	02-Sep-2022 00:00	01-Sep-2022 00:00	01-Sep-2022 00:00	01-Sep-2022 00:00
Compound	CAS Number	LOR	Unit	EN2208863-001	EN2208863-002	EN2208863-003	EN2208863-004	EN2208863-005
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	1.4	1.5	2.6	3.6	2.4
Total Insoluble Matter (mg)	----	2	mg	25	22	46	60	43



Analytical Results

Sub-Matrix: DEPOSITIONAL DUST
 (Matrix: AIR)

Sample ID

				Wongabindie laydown 01/08/22 - 01/09/22	Roydon Rd 02/08/22 - 01/09/22	North Star 04/08/22 - 01/09/22	Croppa Moree Caravan 04/08/22 - 01/09/22	Pan Creek 602.45 02/08/22 - 02/09/22
Sampling date / time				01-Sep-2022 00:00	01-Sep-2022 00:00	01-Sep-2022 00:00	01-Sep-2022 00:00	02-Sep-2022 00:00
Compound	CAS Number	LOR	Unit	EN2208863-006	EN2208863-007	EN2208863-008	EN2208863-009	EN2208863-010
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	2.6	0.7	1.0	1.8	1.7
Total Insoluble Matter (mg)	----	2	mg	48	12	17	29	31



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Pad 6 (Tookey Ck) 03/08/22 - 02/09/22	Spring CK 02/08/22 - 02/09/22	Edgeroi 03/08/22 - 02/09/22	----	----
				02-Sep-2022 00:00	02-Sep-2022 00:00	02-Sep-2022 00:00	----	----
<i>Compound</i>	<i>CAS Number</i>	<i>LOR</i>	<i>Unit</i>	EN2208863-011	EN2208863-012	EN2208863-013	-----	-----
				Result	Result	Result	----	----
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	3.6	2.6	2.7	----	----
Total Insoluble Matter (mg)	----	2	mg	64	48	48	----	----

CERTIFICATE OF ANALYSIS

Work Order : EN2209861 Client : Trans 4 M Rail Joint Venture Contact : Pippa Donaldson Address : 64-68 Balo Street Moree 2400 Telephone : ---- Project : Narrabri 2 North Star Order number : ---- C-O-C number : ---- Sampler : Georgia Butler Site : ---- Quote number : EN/333 No. of samples received : 13 No. of samples analysed : 13	Page : 1 of 5 Laboratory : Environmental Division Newcastle Contact : Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Telephone : +61 2 4014 2500 Date Samples Received : 10-Oct-2022 11:30 Date Analysis Commenced : 11-Oct-2022 Issue Date : 27-Oct-2022 12:24
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This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Thomas Regan	Laboratory Technician	Newcastle - Inorganics, Mayfield West, NSW



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
∅ = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in g/m².mth as sampling data was provided by the client.
- For dust analysis, the Limit of Reporting (LOR) referenced in the reports for deposited matter parameters represents the reporting increment rather than reporting limit.



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Pad 2 02/09/22 - 01/10/22	Pad 4 02/09/22 - 02/10/22	Croppa Town 02/09/22 - 02/10/22	Crooble 02/09/22 - 02/10/22	Milguy Silos 01/09/22 - 02/10/22
Sampling date / time				01-Oct-2022 00:00	02-Oct-2022 00:00	02-Oct-2022 00:00	02-Oct-2022 00:00	02-Oct-2022 00:00
Compound	CAS Number	LOR	Unit	EN2209861-001	EN2209861-002	EN2209861-003	EN2209861-004	EN2209861-005
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	0.7	0.5	2.3	6.9	2.0
Total Insoluble Matter (mg)	----	2	mg	12	8	40	122	37



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Wongabindie	Roydon Rd	North Star	Croppa Moree	Clump rd
				02/09/22 - 02/10/22	02/09/22 - 02/10/22	02/09/22 - 02/10/22	02/09/22 - 02/10/22	02/09/22 - 01/10/22
				02-Oct-2022 00:00	02-Oct-2022 00:00	02-Oct-2022 00:00	02-Oct-2022 00:00	01-Oct-2022 00:00
<i>Compound</i>	<i>CAS Number</i>	<i>LOR</i>	<i>Unit</i>	EN2209861-006	EN2209861-007	EN2209861-008	EN2209861-009	EN2209861-010
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	0.5	1.1	0.7	2.7	1.3
Total Insoluble Matter (mg)	----	2	mg	8	20	12	47	22



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Pad 6	Spring CK	Edgeroi	----	----
				02/09/22 - 01/10/22	02/09/22 - 01/10/22	02/09/22 - 01/10/22	----	----
				01-Oct-2022 00:00	01-Oct-2022 00:00	01-Oct-2022 00:00	----	----
<i>Compound</i>	<i>CAS Number</i>	<i>LOR</i>	<i>Unit</i>	EN2209861-011	EN2209861-012	EN2209861-013	-----	-----
				Result	Result	Result	----	----
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	2.3	5.2	2.9	----	----
Total Insoluble Matter (mg)	----	2	mg	40	89	50	----	----

CERTIFICATE OF ANALYSIS

Work Order : EN2210919 Client : Trans 4 M Rail Joint Venture Contact : Pippa Donaldson Address : 64-68 Balo Street Moree 2400 Telephone : ---- Project : Narrabri 2 North Star Order number : ---- C-O-C number : ---- Sampler : Georgia Butler Site : ---- Quote number : EN/333 No. of samples received : 13 No. of samples analysed : 13	Page : 1 of 5 Laboratory : Environmental Division Newcastle Contact : Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 Telephone : +61 2 4014 2500 Date Samples Received : 09-Nov-2022 12:25 Date Analysis Commenced : 11-Nov-2022 Issue Date : 23-Nov-2022 09:21
---	--



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Zoran Grozdanovski	Laboratory Operator	Newcastle - Inorganics, Mayfield West, NSW



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
∅ = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in g/m².mth as sampling data was provided by the client.
- Sample 007-013 exposure period is 33 days which is outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1.
- The dust gauges for samples 002-004, 006, 008, 009 were full when received by the laboratory. They may have overflowed in the field. Results for these gauges are thus reported on an 'as received' basis. No algaecide correction has been applied.
- For dust analysis, the Limit of Reporting (LOR) referenced in the reports for deposited matter parameters represents the reporting increment rather than reporting limit.



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Spring Ck 01/10/22 - 01/11/22	Edgeroi 01/10/22 - 01/11/22	Clump rd 01/10/22 - 01/11/22	Pad 6 01/10/22 - 01/11/22	Pad 2 02/10/22 - 02/11/22
Sampling date / time				01-Nov-2022 00:00	01-Nov-2022 00:00	01-Nov-2022 00:00	01-Nov-2022 00:00	02-Nov-2022 00:00
Compound	CAS Number	LOR	Unit	EN2210919-001	EN2210919-002	EN2210919-003	EN2210919-004	EN2210919-005
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	1.6	0.6	1.8	1.9	0.3
Total Insoluble Matter (mg)	----	2	mg	30	11	32	34	6



Analytical Results

Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Pad 4	Roydon Rd	Wongabindie	Milguy Silos	Crooble
				02/10/22 - 02/11/22	02/10/22 - 04/11/22	02/10/22 - 04/11/22	02/10/22 - 04/11/22	02/10/22 - 04/11/22
				02-Nov-2022 00:00	04-Nov-2022 00:00	04-Nov-2022 00:00	04-Nov-2022 00:00	04-Nov-2022 00:00
<i>Compound</i>	<i>CAS Number</i>	<i>LOR</i>	<i>Unit</i>	EN2210919-006	EN2210919-007	EN2210919-008	EN2210919-009	EN2210919-010
				Result	Result	Result	Result	Result
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	4.3	3.8	1.0	1.2	39.3
Total Insoluble Matter (mg)	----	2	mg	78	73	20	24	764



Analytical Results

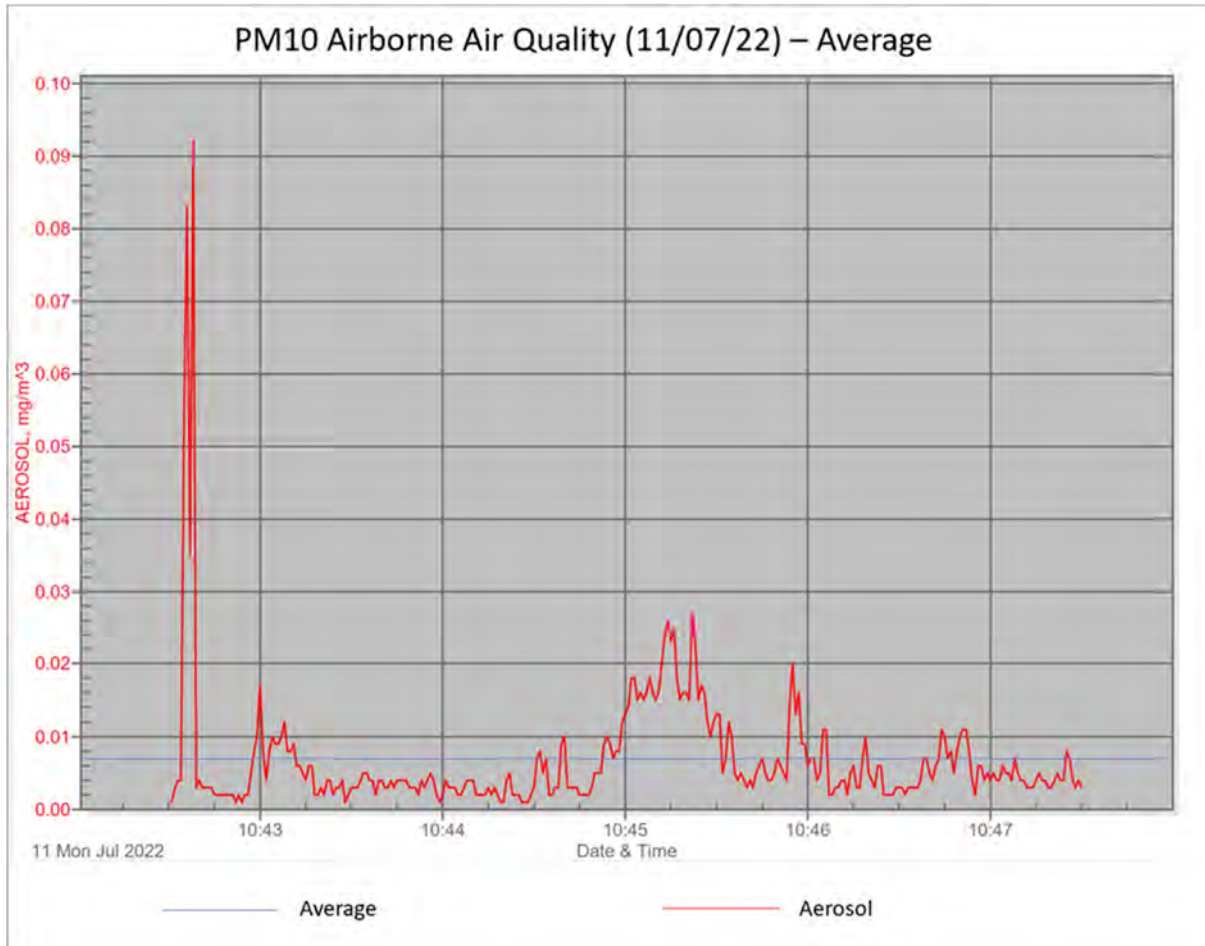
Sub-Matrix: **DEPOSITIONAL DUST**
 (Matrix: **AIR**)

Sample ID

				Croppa Town	Croppa Moree	North Star	----	----
				02/10/22 - 04/11/22	02/10/22 - 04/11/22	02/10/22 - 04/11/22	----	----
				04-Nov-2022 00:00	04-Nov-2022 00:00	04-Nov-2022 00:00	----	----
<i>Compound</i>	<i>CAS Number</i>	<i>LOR</i>	<i>Unit</i>	EN2210919-011	EN2210919-012	EN2210919-013	-----	-----
				Result	Result	Result	----	----
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	41.1	1.3	0.6	----	----
Total Insoluble Matter (mg)	----	2	mg	798	25	12	----	----

Attachment C: Airborne Air Quality (PM10) Monitoring Results

Attachment C1: 24hr (PM10) Rolling Average - Bellata (11th July 2022)



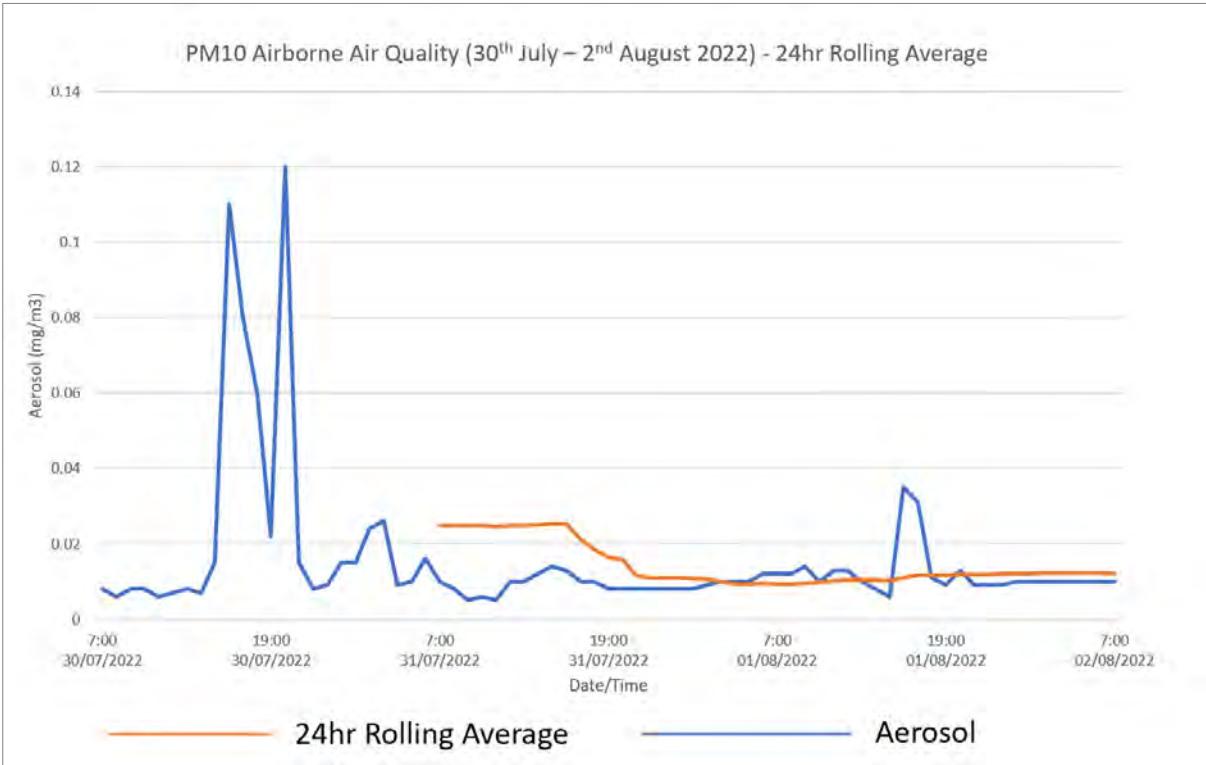
NOTES:

Criteria includes:

Pollutant	Averaging period	Criteria
PM10	24 Hours	50 µg/m ³ (0.05mg/m ³)



Attachment C2: 24hr (PM10) Rolling Average - Bellata (30th July – 2nd August 2022)



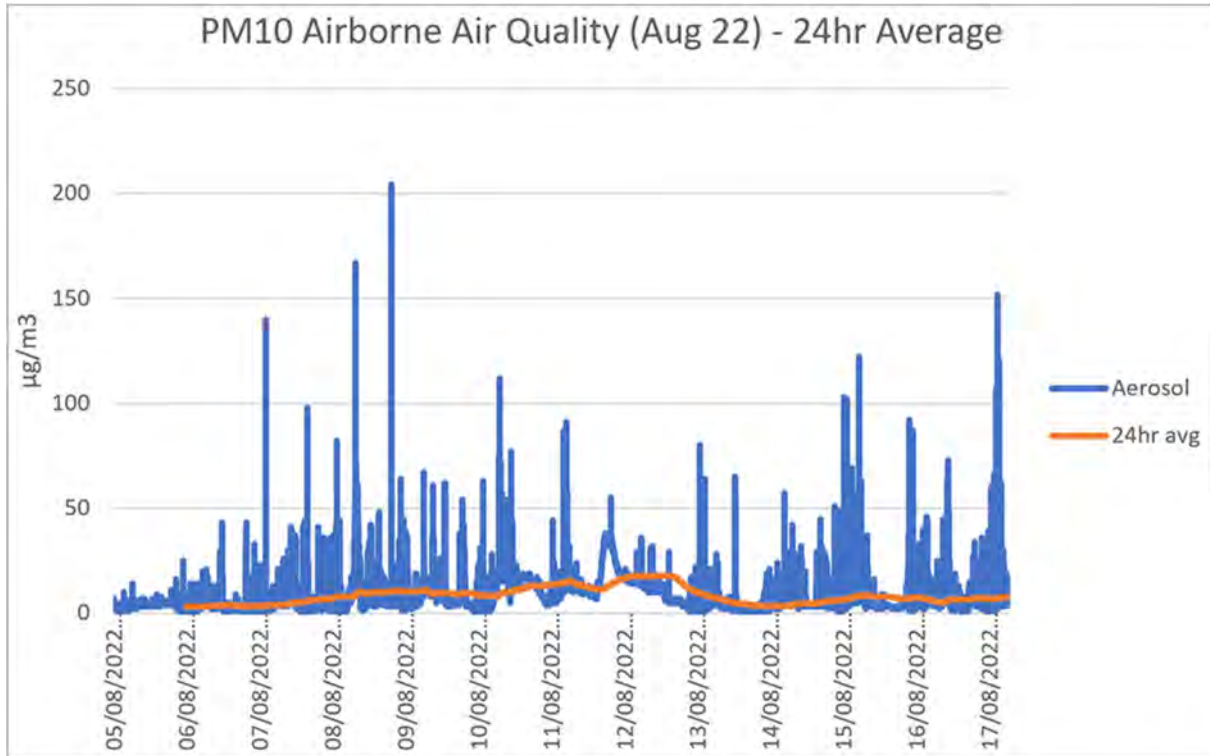
NOTES:

Criteria includes:

Pollutant	Averaging period	Criteria
PM10	24 Hours	50 µg/m ³ (0.05mg/m ³)



Attachment C3: 24hr (PM10) Rolling Average - Bellata (05th – 17th August 2022)



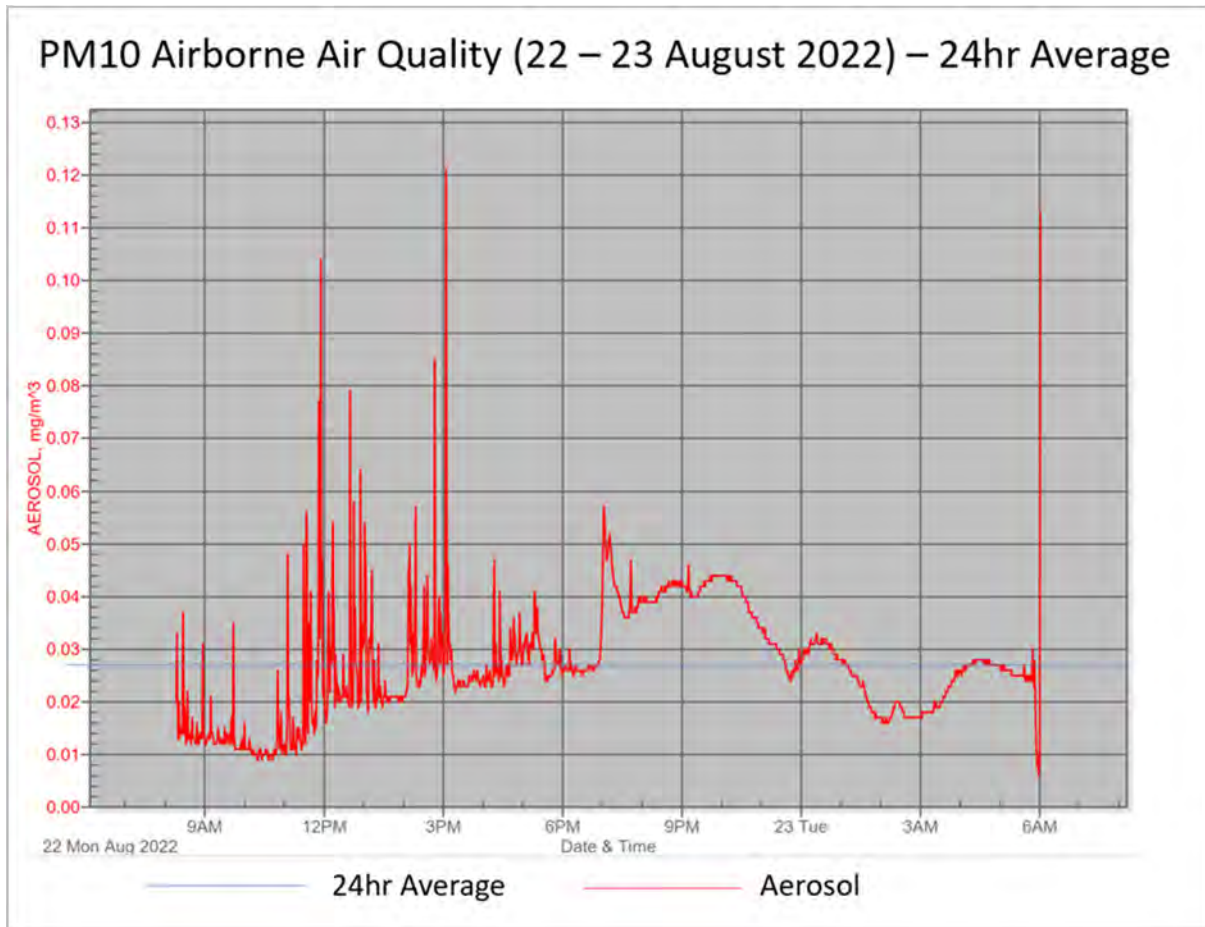
NOTES:

Criteria includes:

Pollutant	Averaging period	Criteria
PM10	24 Hours	50 µg/m ³ (0.05mg/m ³)



Attachment C4: 24hr (PM10) Rolling Average - Bellata (22nd – 23rd Aug 2022)



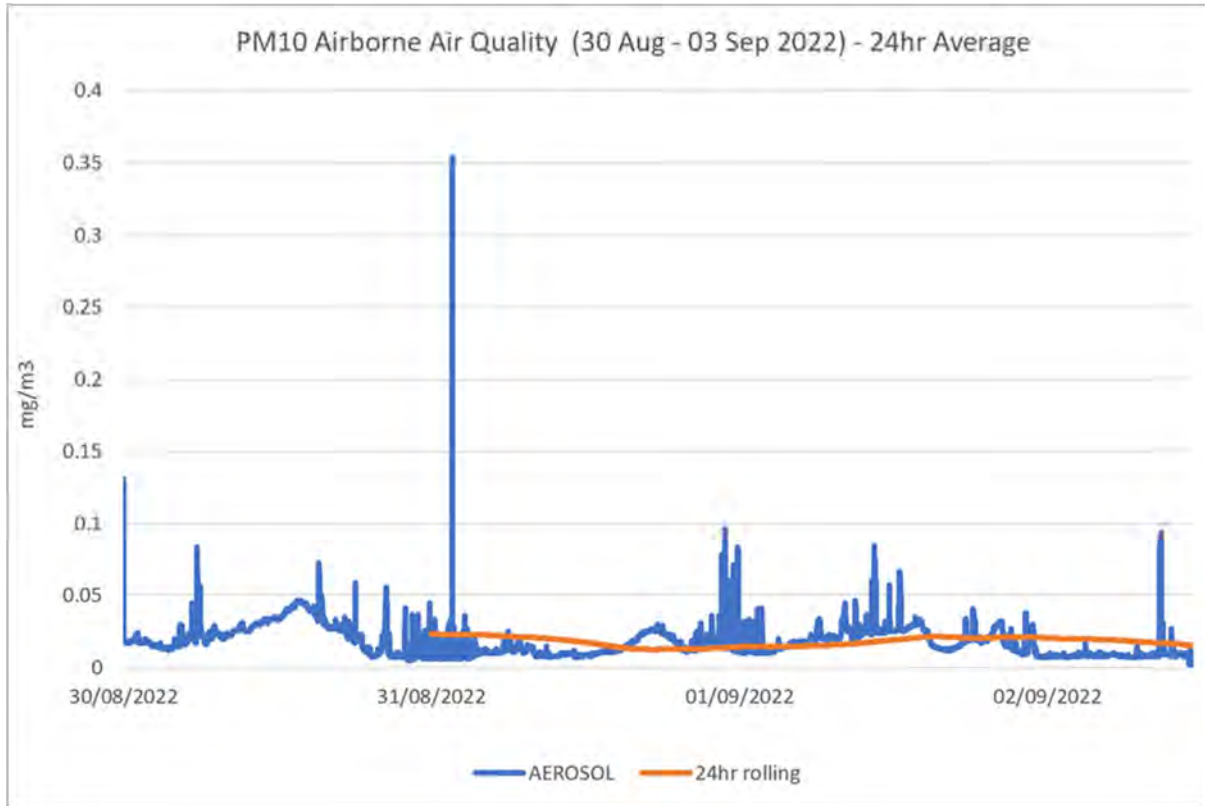
NOTES:

Criteria includes:

Pollutant	Averaging period	Criteria
PM10	24 Hours	50 µg/m ³ (0.05mg/m ³)



Attachment C5: 24hr (PM10) Rolling Average - Bellata (30th Aug – 03rd Sep 2022)



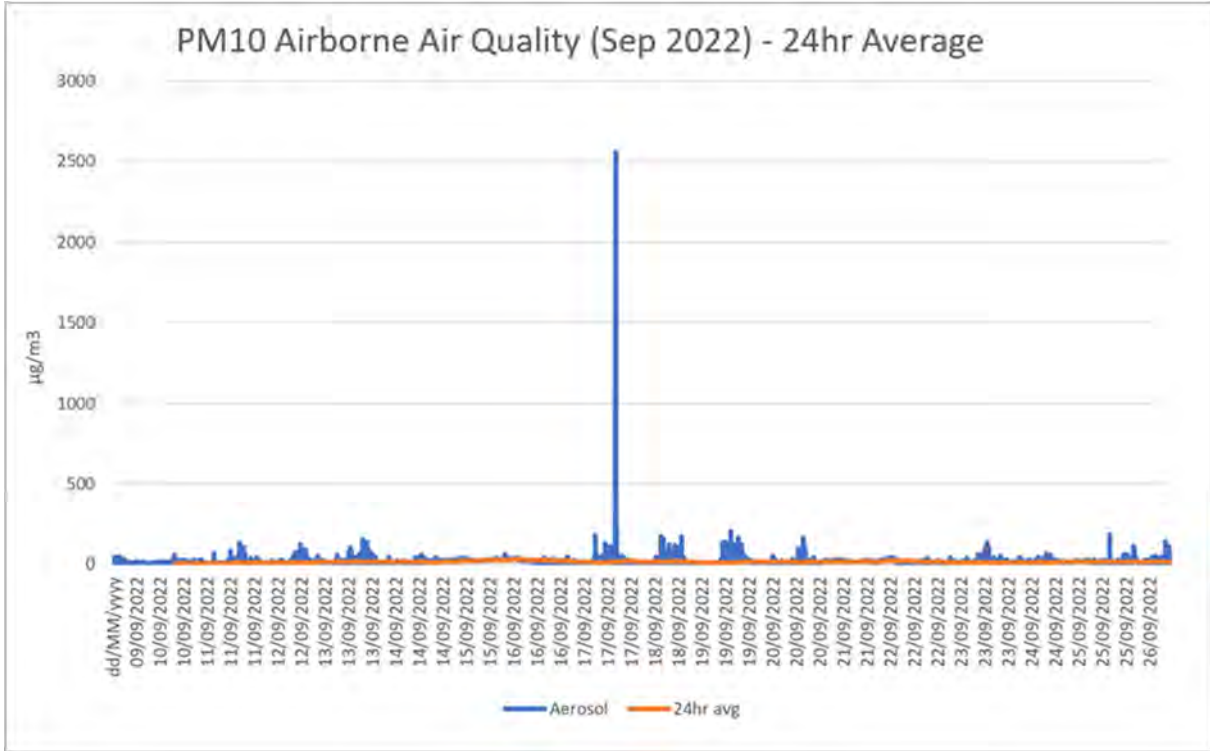
NOTES:

Criteria includes:

Pollutant	Averaging period	Criteria
PM10	24 Hours	50 µg/m ³ (0.05mg/m ³)



Attachment C6: 24hr (PM10) Rolling Average - Bellata (09th –26th September 2022)



NOTES:

Criteria includes:

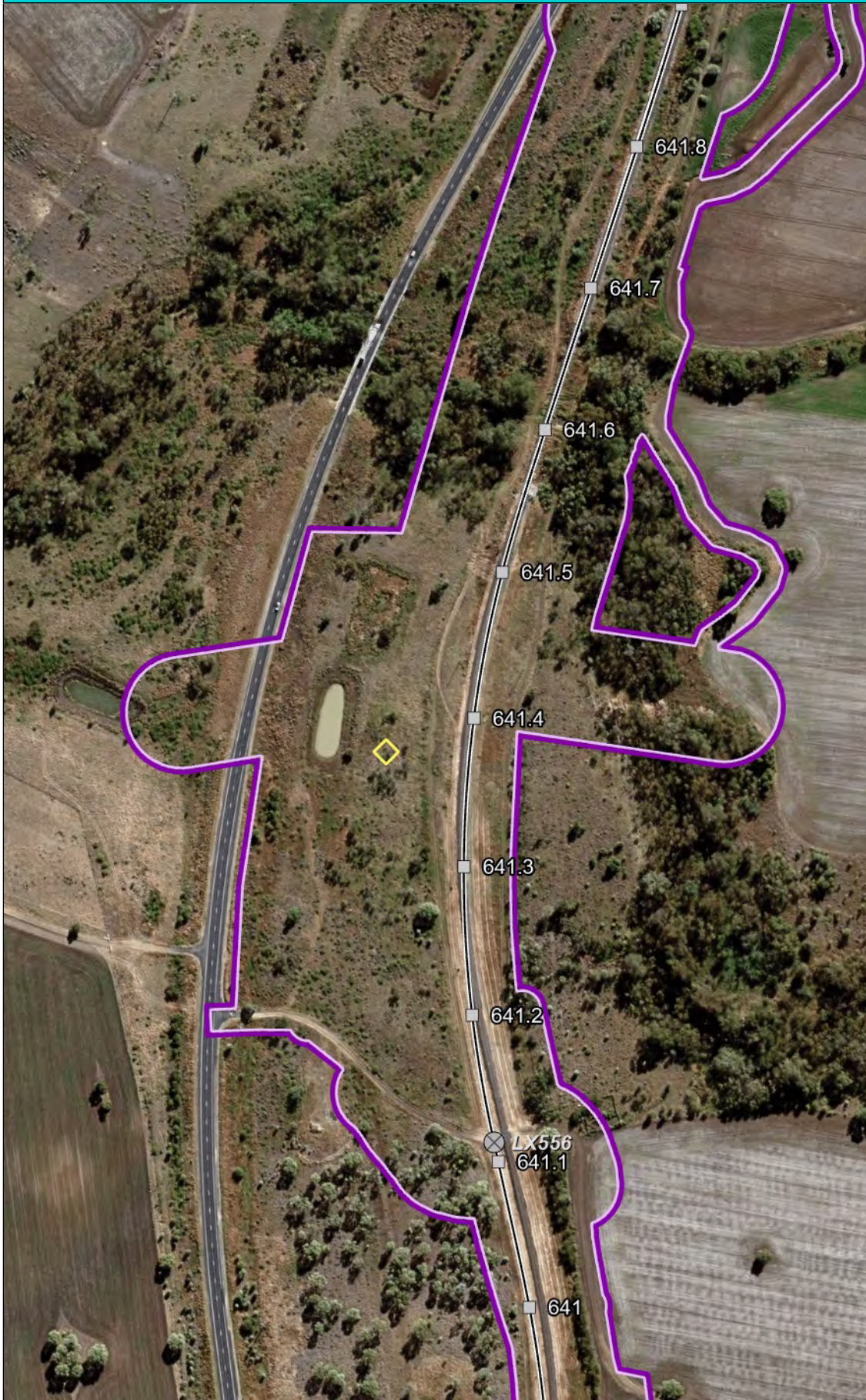
Pollutant	Averaging period	Criteria
PM10	24 Hours	50 µg/m ³ (0.05mg/m ³)



Attachment D: Air Quality Monitoring Locations

PAD 2 - Depositional Dust Gauge (Active)

INTERNAL USE ONLY



Legend

- World Boundaries and Places
- CIZ (SPIR)
- Level Crossings
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- Ⓡ Residential Receivers
- Sensitive Receivers
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious

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0 0.06 0.1 Kilometers



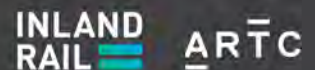
Scale: 1: 4,514

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

- Yellow Diamond - PAD 2 Depositional Dust Gauge Monitoring Location (Active)
- Purple - EPL Premise Boundary

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Croppa Creek - PM10 & DDG Monitoring Location

INTERNAL USE ONLY



Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- ⊗ Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious

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0 0.11 0.2 Kilometers

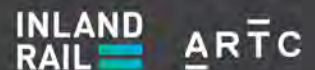
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

- Purple - EPL Premise Boundary
- Yellow Diamond - Croppa Creek DDG Monitoring Location (Active)
- Red Diamond - AQ01 PM10 Monitoring Location (Decommissioned)
- Blue Diamond - AQ02 PM10 Monitoring Location (Decommissioned)

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Crooble Depositional Dust Gauge

INTERNAL USE ONLY



Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- Ⓡ Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious

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0 0.11 0.2 Kilometers

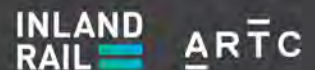
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

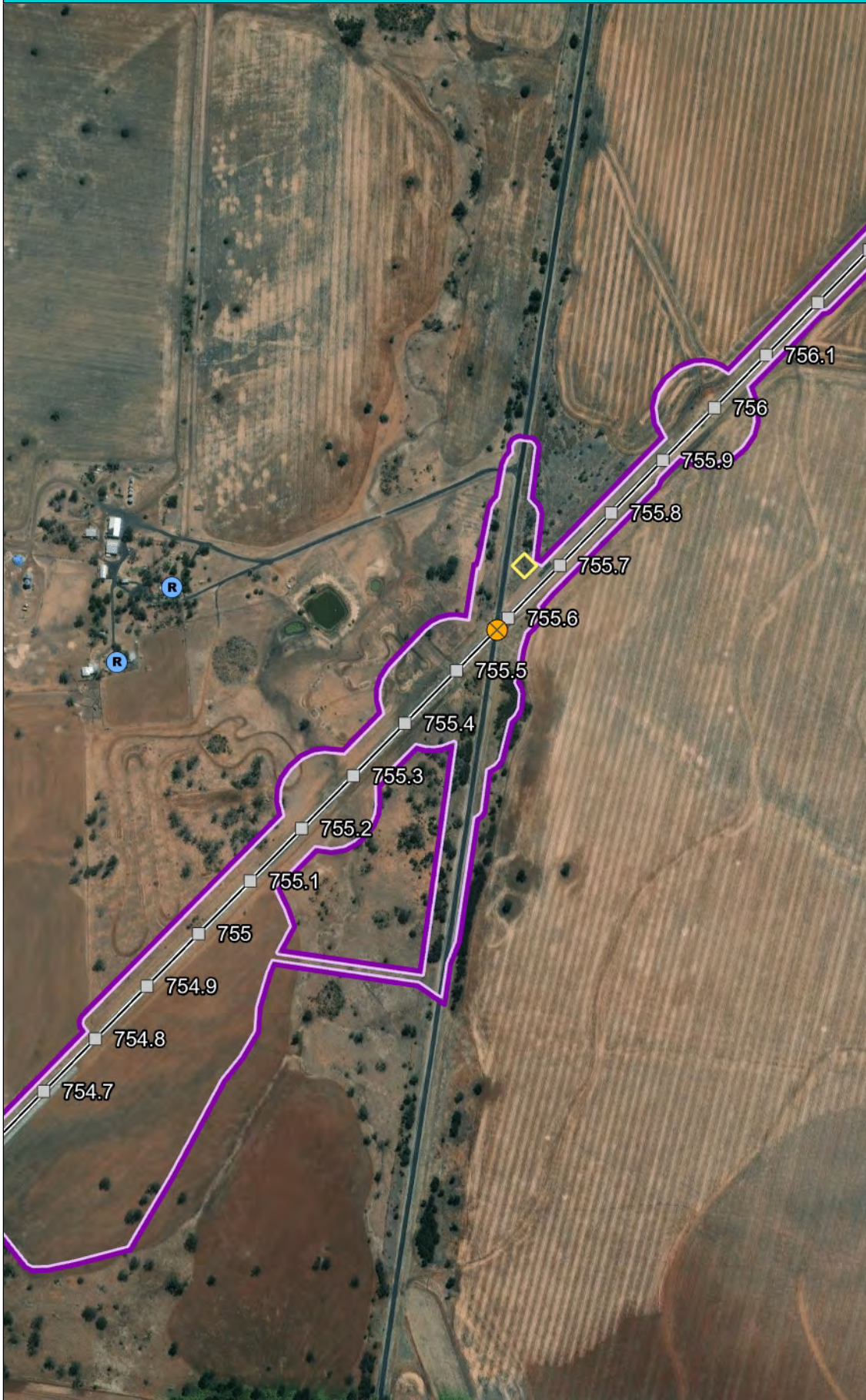
Notes:

Yellow Diamond - Depositional Dust Gauge Monitoring Location (Active)
Purple - EPL Premise Boundary

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- ⊗ Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious

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0 0.11 0.2 Kilometers

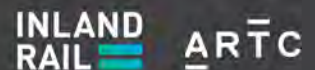
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

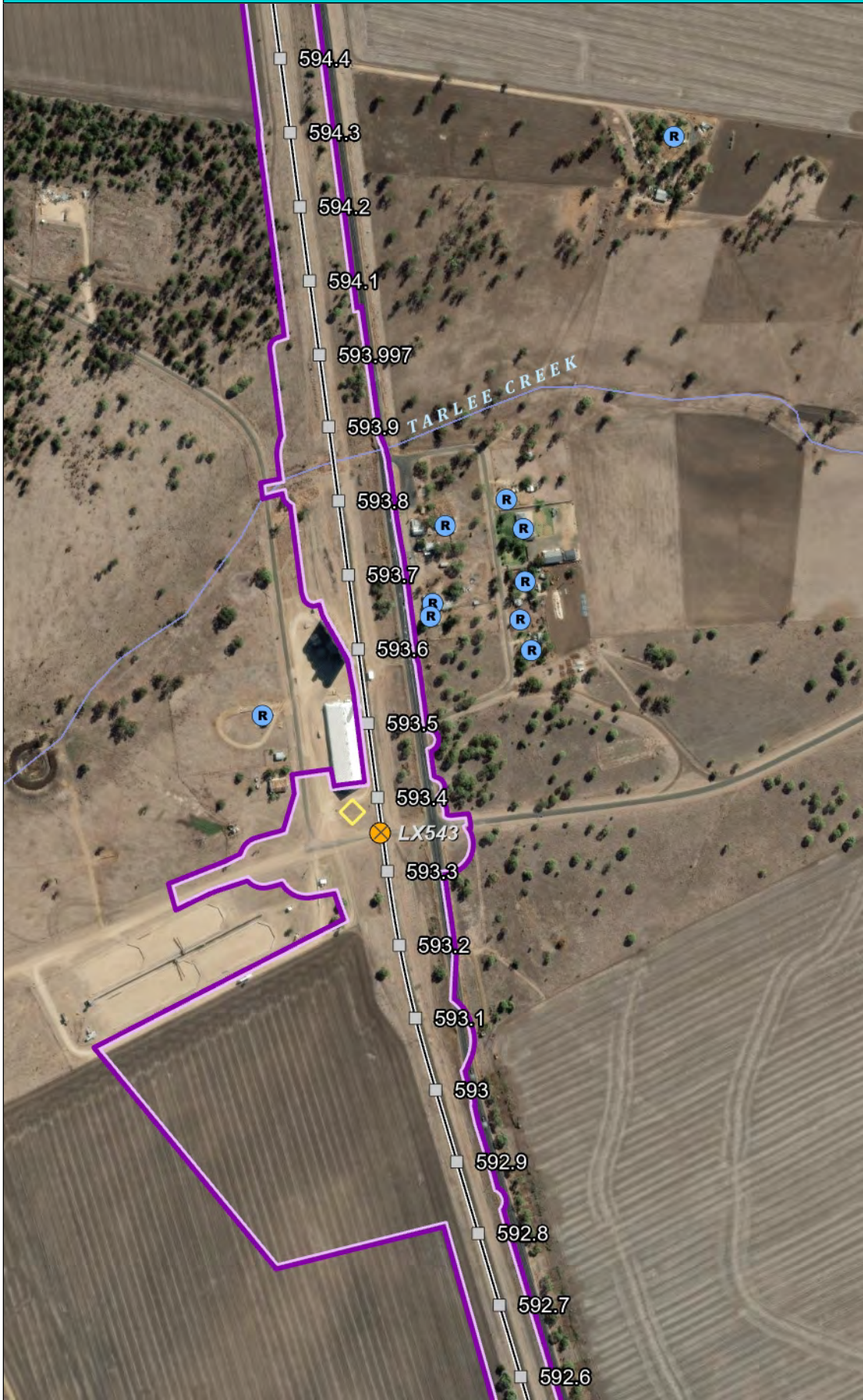
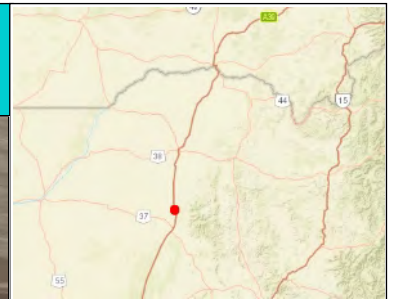
Notes:

Yellow Diamond - Croppa - North Star
Depositional Dust Gauge Location (Active)
Purple - EPL Premise Boundary

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- R Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious
- Named Watercourse LS**
 - <all other values>
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6
 - 7
 - 8
 - 9

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0 0.11 0.2 Kilometers

Scale: 1: 9,028

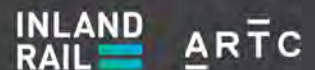
Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Yellow Diamond - Edgeroi DDG Monitoring Location (Active)

Purple - EPL Premise Boundary

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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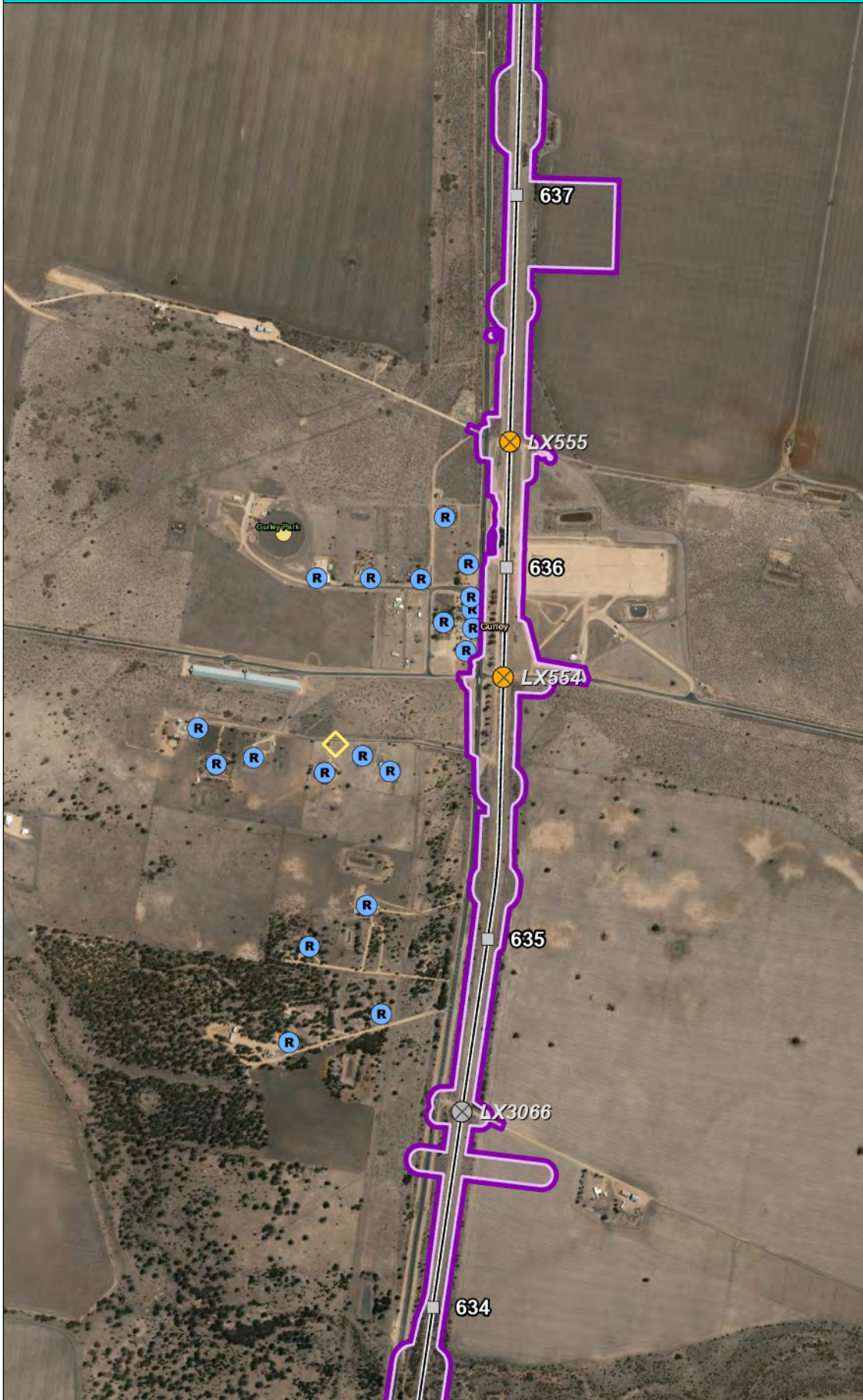
Gurley Depositional Dust Guage

INTERNAL USE ONLY



Legend

- World Boundaries and Places
- CIZ (SPIR)
- Level Crossings
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 1km
- Rail Alignment
- R Residential Receivers
- Sensitive Receivers
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious



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0 0.23 0.5 Kilometers



Scale: 1: 18,056

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Yellow Diamond - Gurley Depositional Dust Monitoring Location (Decommissioned)

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.

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Milguy Depositional Dust Gauge

INTERNAL USE ONLY



Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- Ⓡ Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious

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0 0.11 0.2 Kilometers

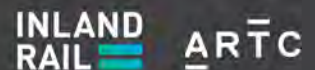
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

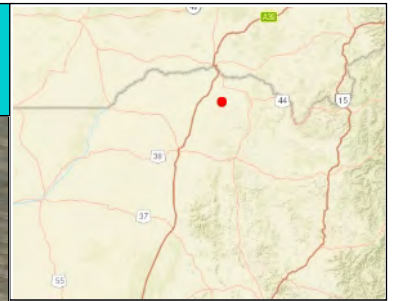
Notes:

Yellow Diamond - Milguy Depositional Dust Gauge Monitoring Location (Active)
Purple - EPL Premise Boundary

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- R Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious

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0 0.11 0.2 Kilometers

Scale: 1: 9,028

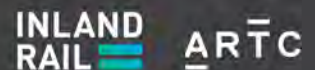
Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Yellow Diamond - North Star DDG Monitoring Location (Active)

Purple - EPL Premise Boundary

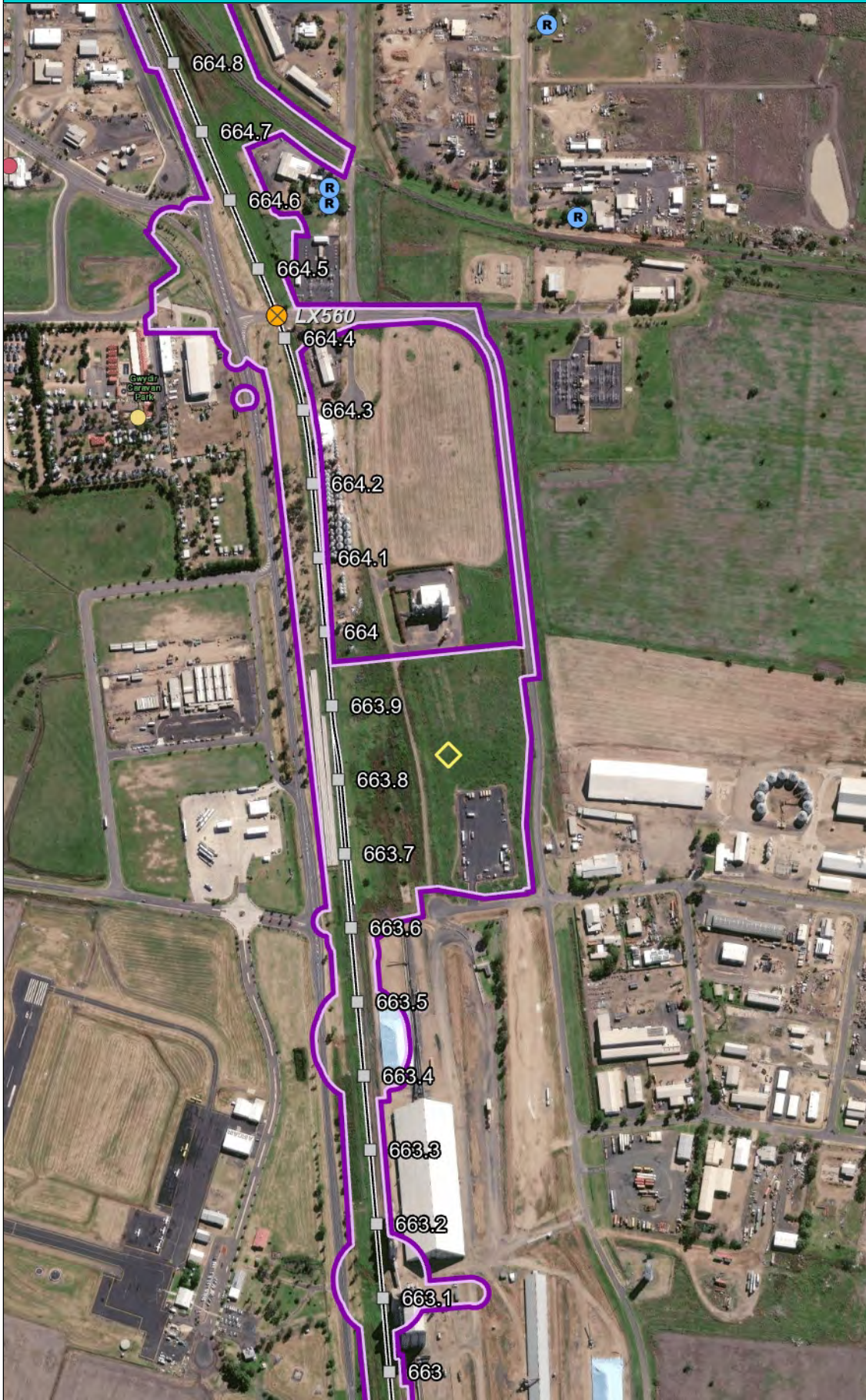
Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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PAD 4 - Depositional Dust Gauge (Active)

INTERNAL USE ONLY



Legend

- World Boundaries and Places
- CIZ (SPIR)
- Level Crossings
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- Ⓡ Residential Receivers
- Sensitive Receivers
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious

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0 0.11 0.2 Kilometers

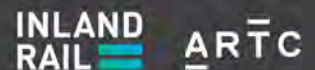
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

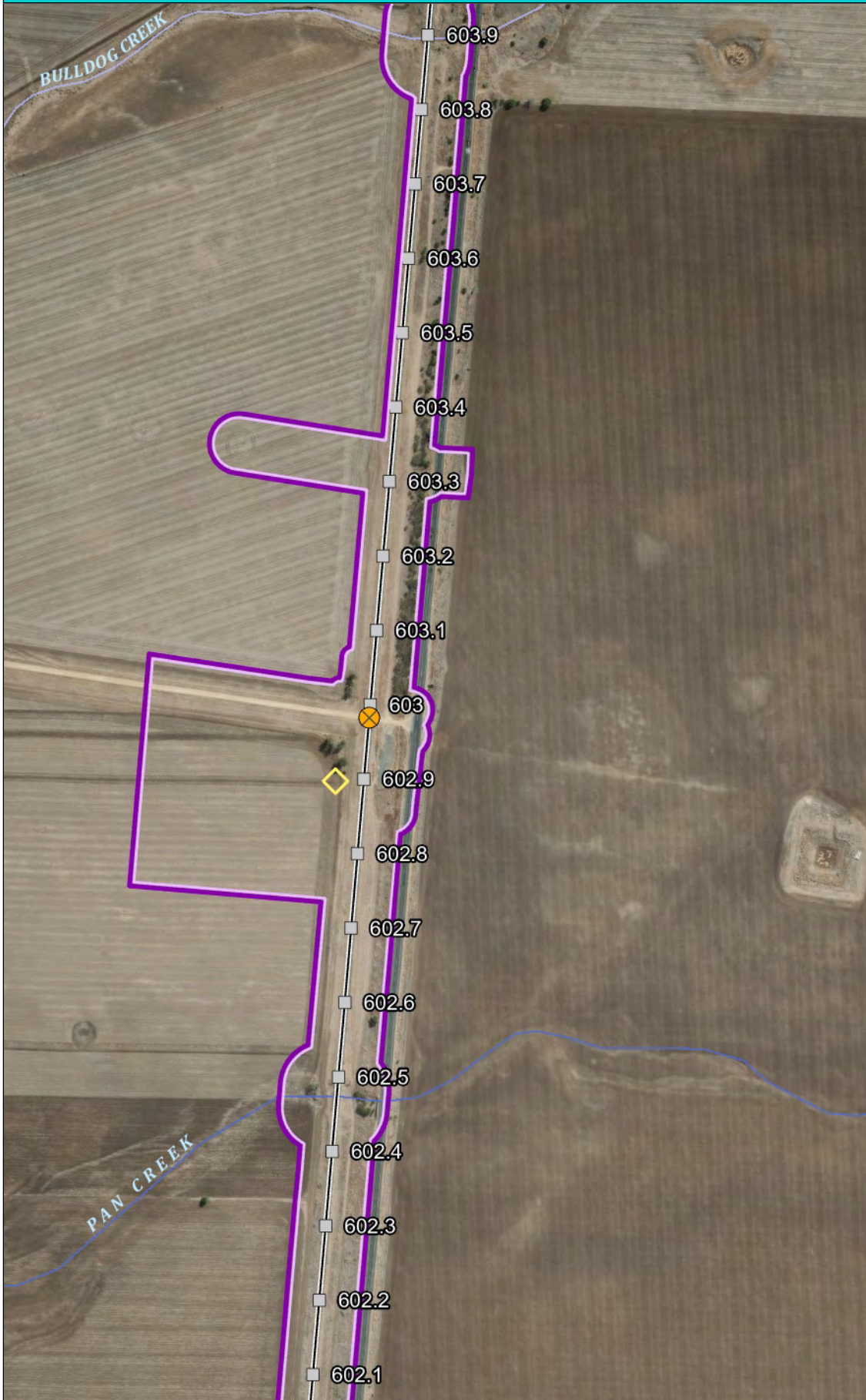
Notes:

Yellow Diamond - PAD 4 Depositional Dust Gauge Monitoring Location (Active)
Purple - EPL Premise Boundary

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious
- Named Watercourse LS**
 - <all other values>
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6
 - 7
 - 8
 - 9

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0 0.11 0.2 Kilometers



Scale: 1: 9,028

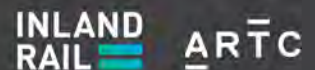
Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

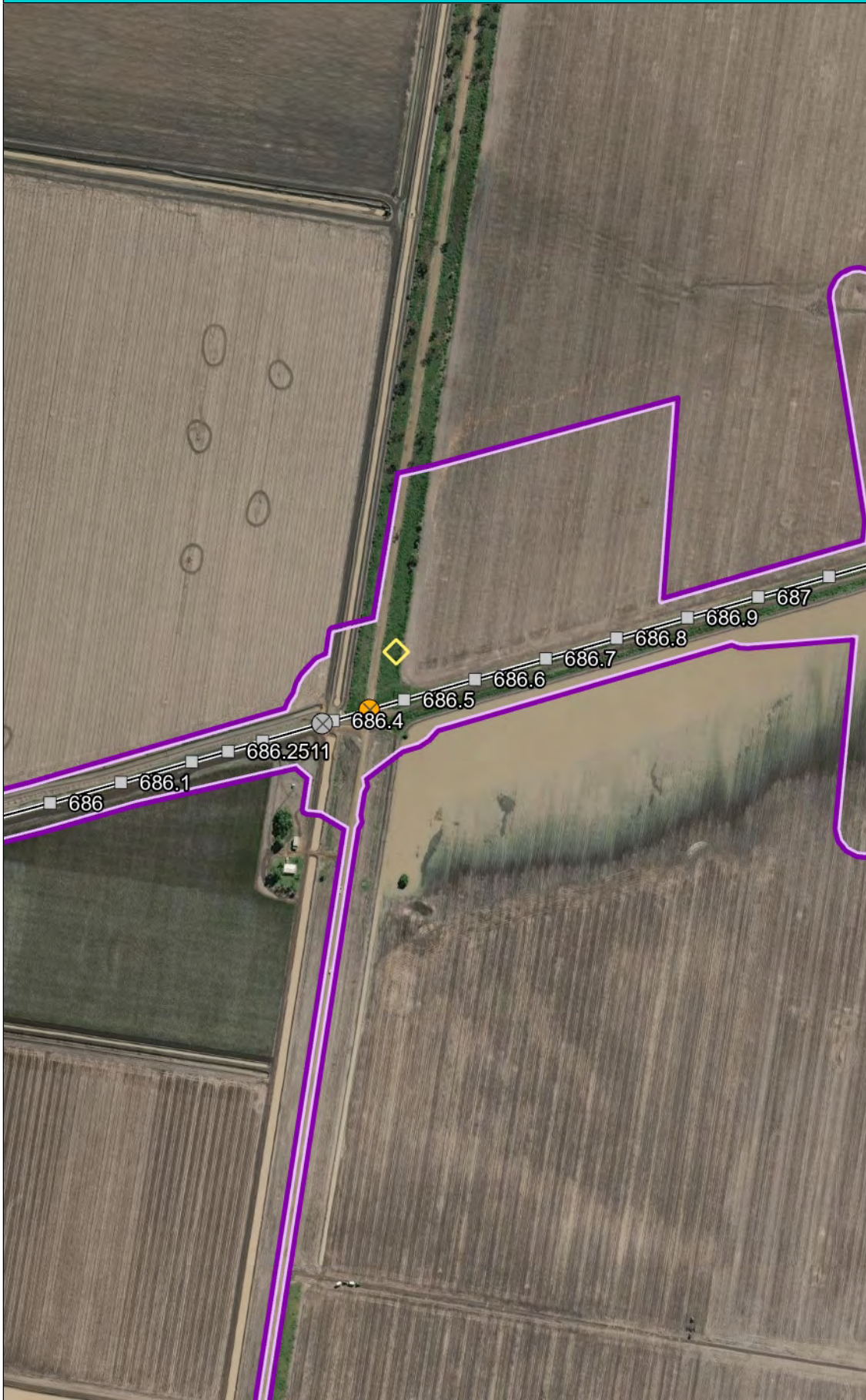
Yellow Diamond - Pan Creek DDG Monitoring Location (Active)

Purple - EPL Premise Boundary

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious

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0 0.11 0.2 Kilometers

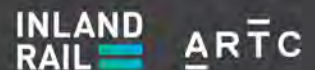
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Yellow Diamond - Roydon Rd Depositional Dust Gauge Location
Purple - EPL Premise Boundary

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Spring Creek DDG Location

INTERNAL USE ONLY



Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- ⊙ Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious
- Named Watercourse LS**
 - <all other values>
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6
 - 7
 - 8
 - 9

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0 0.11 0.2 Kilometers

Scale: 1: 9,028

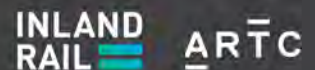
Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Yellow Diamond - Spring Creek DDG Monitoring Location (Active)

Purple - EPL Premise Boundary

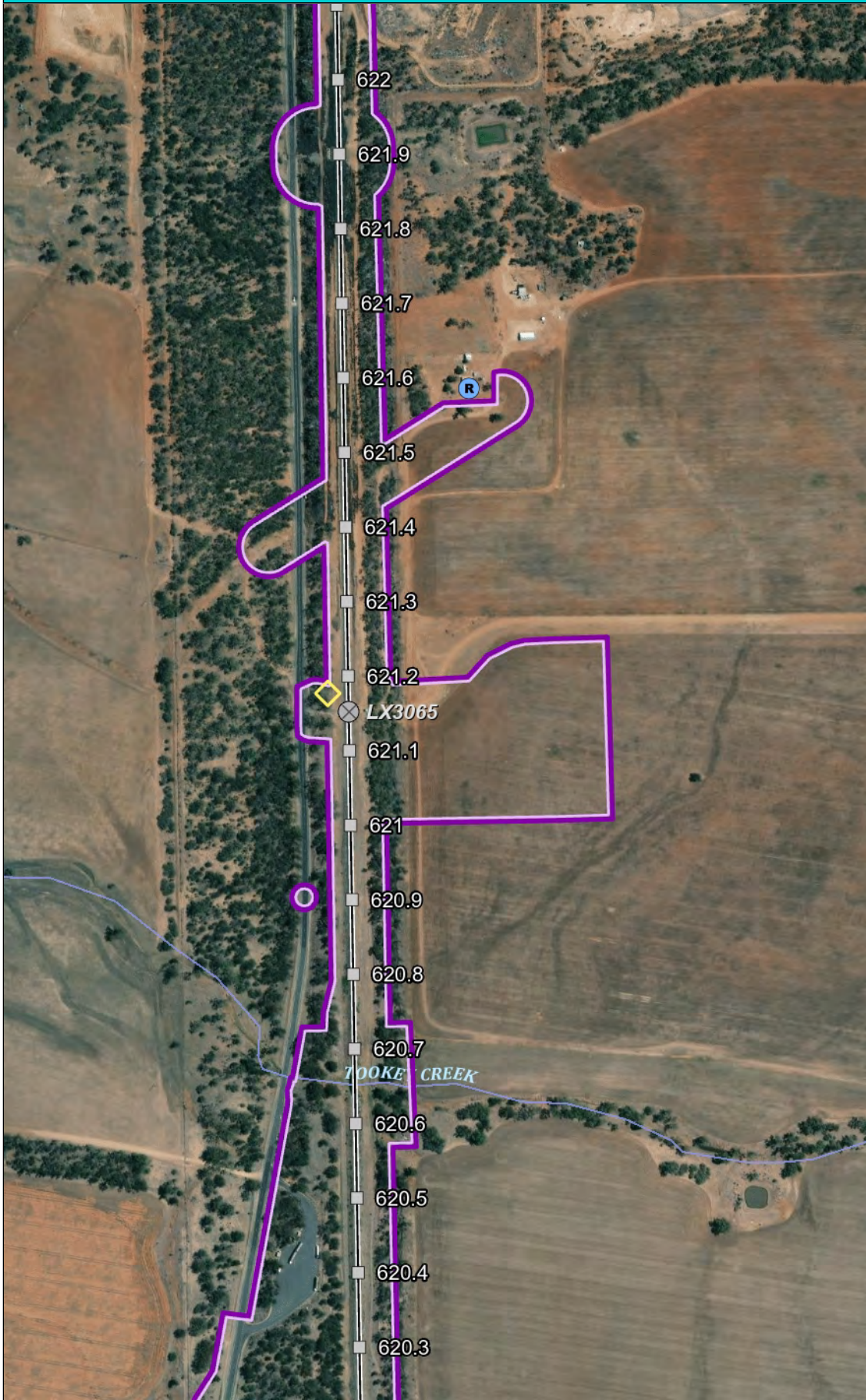
Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Tookey Creek DDG Location

INTERNAL USE ONLY



Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- R Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious
- Named Watercourse LS**
 - <all other values>
 - 1
 - 2
 - 3
 - 4
 - 5
 - 6
 - 7
 - 8
 - 9

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0 0.11 0.2 Kilometers

Scale: 1: 9,028

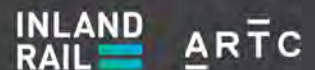
Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Yellow Diamond - Tookey Creek DDG Monitoring Location (Active)

Purple - EPL Premise Boundary

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Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 1km
- Rail Alignment
- R Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious

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0 0.23 0.5 Kilometers

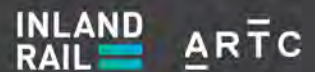
Scale: 1: 18,056

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Yellow Diamond - Wongabindie Rd
Depositional Dust Gauge Location
Purple - EPL Premise Boundary

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Bellata - PM10 Monitoring Location

INTERNAL USE ONLY



Legend

- CIZ (SPIR)
- Level Crossings**
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- Chainage 100m
- Rail Alignment
- R Residential Receivers
- Sensitive Receivers**
 - Active recreation
 - Aged care
 - Education
 - Health
 - Passive recreation
 - Religious

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0 0.11 0.2 Kilometers

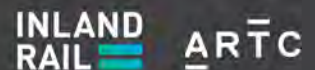
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Purple - EPL Premise Boundary
 Red - AQ03 PM10 Monitoring Location (Proposed)

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Attachment E: Non-conformance Report (DDG Exposure Period)

System NCR Summary



Project Name	ARTC Narrabri - North Star (Inland Rail N2NS) Package A		
Project No	PRJ-04902-01 (7632)		
Entered By	Adam Playne	Date Raised	03/10/2022 11:49PM (AEDT)
NCR No	SNC/N2NS/00041	NCR Date	03/10/2022
Discipline	Environment	NCR Initiated By	Adam Playne
Location	Narrabri to North Star (N2NS)	Exact Location	Multiple Locations
NCR Raised Against	Project	Company	
Description	<p>During a recent review of the depositional dust gauge monitoring results for the Project it was identified that multiple monitoring occasions were outside the typical exposure period detailed in AS3580.1 and Appendix D (Air Quality Monitoring Program (incl. Depositional Dust Monitoring Procedure)) of the Project's Soil and Water Management Sub-Plan. These include:</p> <p>June 2022 - DDG Sampling Event: - Sample exposure period for 001 (Pad 2), 002 (Pad 4), 005 (Wongabindie), 006 (Royden) and 009-012 (Edgeroi, Pad 6, Spring Creek and Pan Creek) is 33 days which is 1 day outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1. - Sample exposure period for 003 (Croppa Creek) is 63 days which is 31 days outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1.</p> <p>July 2022 - DDG Sampling Event: - Sample exposure period for 002 (Pad 4) is 35 days which is 3 days outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1. - Sample exposure period for 005 (Milguy) is 26 days which is 4 days outside the typical exposure period of 30 +/- 2 days as per AS3580.10.1.</p> <p>The root cause for these include: - T4MR resource constraints and DDG collection occurring in line with other, competing priorities. - Croppa Creek (June), the collection of the DDG being missed during the May sampling round.</p> <p>NOTE: Reoccurring calendar invites have been previously circulated to remind relevant Project personnel of the pending DDG Bottle exchange. This will be checked to ensure the timing of this reminder is adequate.</p> <p>To avoid recurrence of this, the T4MR Project Personnel will be trained in the requirement to deploy and collect DDG's within the specified timeframes.</p>		
System Contributing Factor	Failure to follow procedure		
Cause of System NCR	<p>The root cause for these include: - T4MR resource constraints and DDG collection occurring in line with other, competing priorities. - Croppa Creek (June), the collection of the DDG being missed during the May sampling round.</p>		
Related Product NCR			
NCR Contact Person	Adam Playne		
Got 3rd Party Approval?	N/A		
Comment	N/A		
Name		Date	

System NCR Summary



Closed By Pippa Donaldson

Closed Date 24/10/2022

Actions

ACT/N2NS/00606

Date	Raised By	Action Required	Assigned To	Due Date	Status
03/10/2022 (AEDT)	Adam Playne	Reoccurring calendar invites have been previously circulated to remind relevant Project personnel of the pending DDG Bottle exchange. This will be checked to ensue the timing of this reminder is adequate. To avoid recurrence of this, the T4MR Project Personnel will be trained in the requirement to deploy and collect DDG's within the specified timeframes.	Adam Playne (HSEQ Senior Advisor)	14/10/2022	Closed
Date Actioned	Action Comments	Date Verified	Verified By	Verification Comments	
26/10/2022	Actions complete. Monthly Calendar Reminders are in place for the 2nd / 3rd of each month and Enviro Team toolboxed regarding the exposure periods in AS3580 (30 +/- 2 days).				

Attachments

Upload Details	Description	Images	Upload Details	Description	Images
Adam Playne	EN2206964_0_C OA.pdf		Adam Playne	EN2207667_0_C OA.pdf	
03/10/2022 12:52PM (AEDT)			03/10/2022 12:52PM (AEDT)		

Attachments

Upload Details	Description	Images
Pippa Donaldson	221024_System NCR Close out evidence.pdf	
08/11/2022 1:06PM (AEDT)	Close out evidence - Client acceptance.	

Attachment F: Noise Monitoring Results

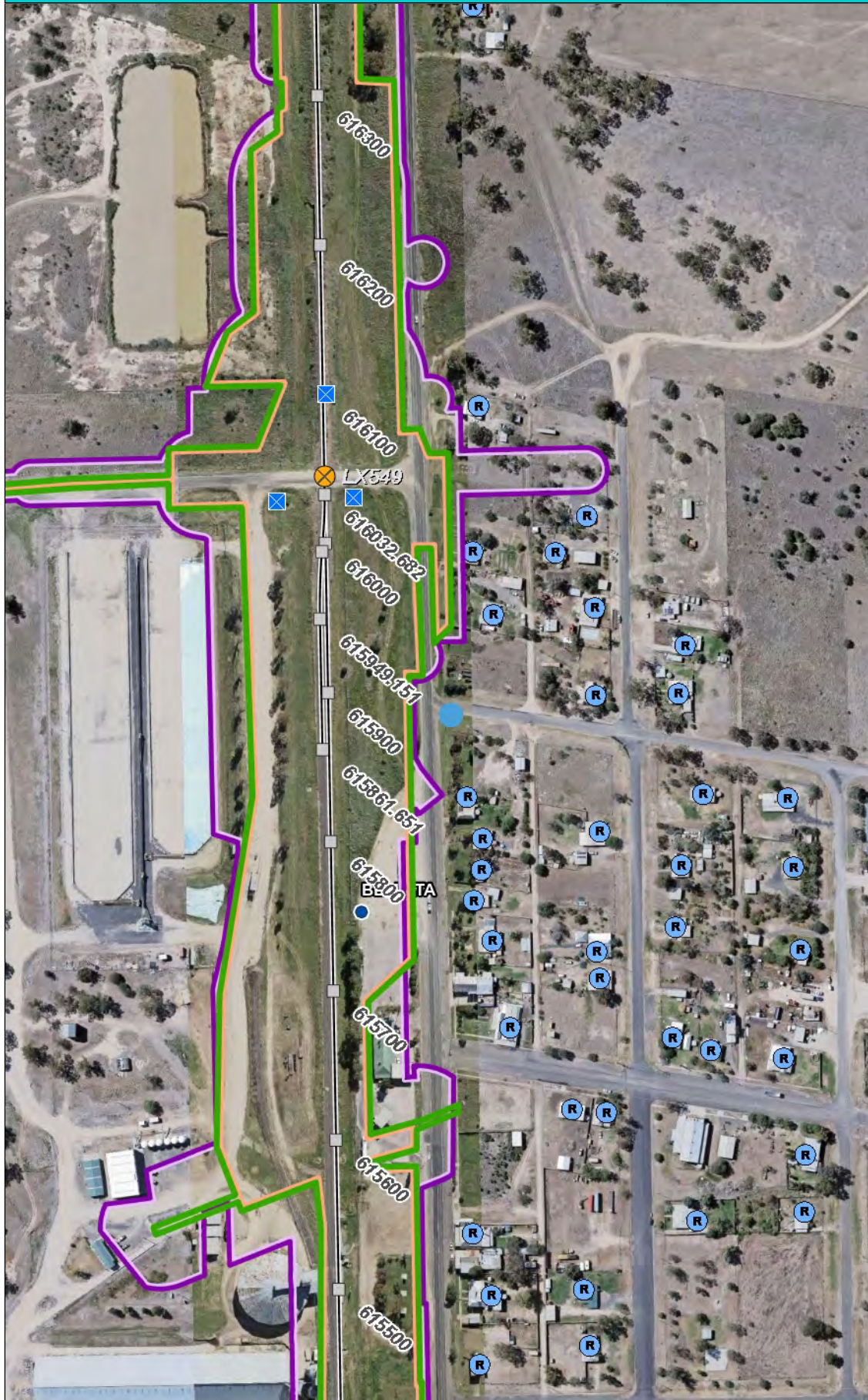
Stage 1 / 2B Attended Noise Monitoring					
Sampler	Adam Playne	Adam Playne	Adam Playne	Adam Playne	Adam Playne
Date	28/06/2022	28/06/2022	28/06/2022	28/06/2022	28/06/2022
Time	12:12 - 12:27pm	7:28 - 7:43	10:10 - 10:25	8:16 - 8:31	10:44 - 10:59
Site	Newell Hwy, Edgeroi (Resident)	Gurley Settlers Rd, east of alignment	Jalmar Park	Mardell	Oak St, Bellata
Chainage	CH593.000	CH643.000	CH617.730	CH646.700	CH616
Co-ords	30.114217, 149.799301	29.666915, 149.812729	29.898130, 149.789182	29.638674, 149.812542	29.915100, 149.791502
L _{AEQ}	59.3	54.5	48.4	48.7	60.1
L _{AF}	88.9	84.1	78	78.3	89.9
L _{AFmax}	75.9	79	66.3	59.3	80.2
L _{AFmin}	36.2	35.3	34.3	32.6	41.1
L _{AF05}	66.5	58	51.5	54	67.1
L _{AF10}	63.1	56.3	49.1	52.7	64
L _{AF50}	49	50.7	42.6	47	49.3
L _{AF90}	41.1	40.9	38.4	39.2	44.1
Construction Noise Source	Excavator working on Tarlee Rd LX	Road trains importing material	Moxy's carting material past on alignment	Water cart on Mardell Access Rd	Grader working on Millie Rd LX
	Low-loader delivering culverts	Moxy's placing material	Banging (metal on metal), within alignment	Drainage crew working at Culverts CH646.800, CH646.700 & CH646.600	Excavator and moxy placing and spreading material on alignment 200m north of monitoring location.
	Crane landing culverts in Tarlee Creek	Crane lifting culverts	Road trains side tippers hauling material past monitoring location.	Cutting tying steel, generator and grinder at above culverts.	Construction activities barely audible against other noise sources.
	Truck driving up alignment.		Reversing alarms audible.	project Trucks using Mardell - 57dB	
Non-construction Noise Source	Hwy traffic preominant noise source (peaking at 71.9dB)	LV / HV's on Hwy	LV / HV traffic on Newell Hwy	LV / HVs on Hwy, predominant noise source.	Traffic on Hwy, predominant noise source.
	Tractor working on Green Street, Edgeroi	40 - 41dB with no Hwy Traffic	Highway traffic predominant noise source.	Birds calling	Trucks left to idle at Truck Stop.
	Dog barking	Car on G/S Rd.	Birds calling.	Trucks on Highway - 58dB	Local traffic on Oak Street.
		49 - 58 dB with Truck on Hwy.	Wind gusts	No Hwy traffic - 34dB	Trucks / cars accelerating from truck / rest stop.

Stage 3 - Construction Activity Noise Monitoring					
Sampler	GB	GB	GB	GB	GB
Date	12/07/2022	12/07/2022	12/07/2022	12/07/2022	12/07/2022
Time	12:10pm	09:30am	9:27am	10:08am	10:17am
Site	Milguy Caravan North (6m from track)	Croppa Creek Bridge Location (30m from excavator loading truck)	North of Croppa Creek (10m from bottom of batter).	Croppa North Star LX (10m from work crew)	Croppa North Star LX
Co-ords	29.3481, 150.2059	-	-	-	-
Sensitive Receivers	Milguy (2) @ CH706.800	Croppa Creek Township @ CH733.950	Croppa Creek Township @ CH733.950	2 x Sensitive Receivers at CH755.200	3 x Sensitive Receivers at CH755.200
Chainage	CH707.26	CH734.920	CH735.280	CH755.65	CH755.65
LAEQ	74.8dB	56.3dB	74.3dB	65.8dB	58.1dB
LAF	101dB	76.0dB	95.2dB	91.1dB	60.2dB
LAFmax	83.6dB	71.7dB	85.9dB	74.8dB	59.9dB
LAFmin	60.3dB	38.1dB	55.1dB	44.9dB	57.3dB
LAF05	79.8dB	61.5dB	79.5dB	71.1dB	59.7dB
Construction Noise Source	Declipping - harley x 2 Picking up rollers Work crew talking (5)	Cat 323 Excavator loading 40t Truck	Ballast wagon drop Ballast train movement	Grader 670GP trimming Traffic Management Crew Truck delivery	Roller R298 operating Reversing alarms Traffic Management LX works
Non-construction Noise Source	Cars travelling	Nil	Nil	Public cars and trucks driving through LX	General public traffic through LX

Attachment G: Noise Monitoring Locations

Bellata Noise Monitoring Location (28/06/22)

INTERNAL USE ONLY



Legend

- CIZ (20220725)
- CIZ (SPIR)
- R Residential Receivers
- B Bridges
- Level Crossings
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- ⊗ Culverts
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- Railway Location
- ARTC Network
- Other Railways

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Notes:

Blue Dot - Noise Monitoring Location (28/06/2022)

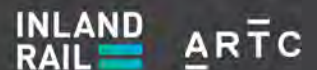


0 0.06 0.1 Kilometers

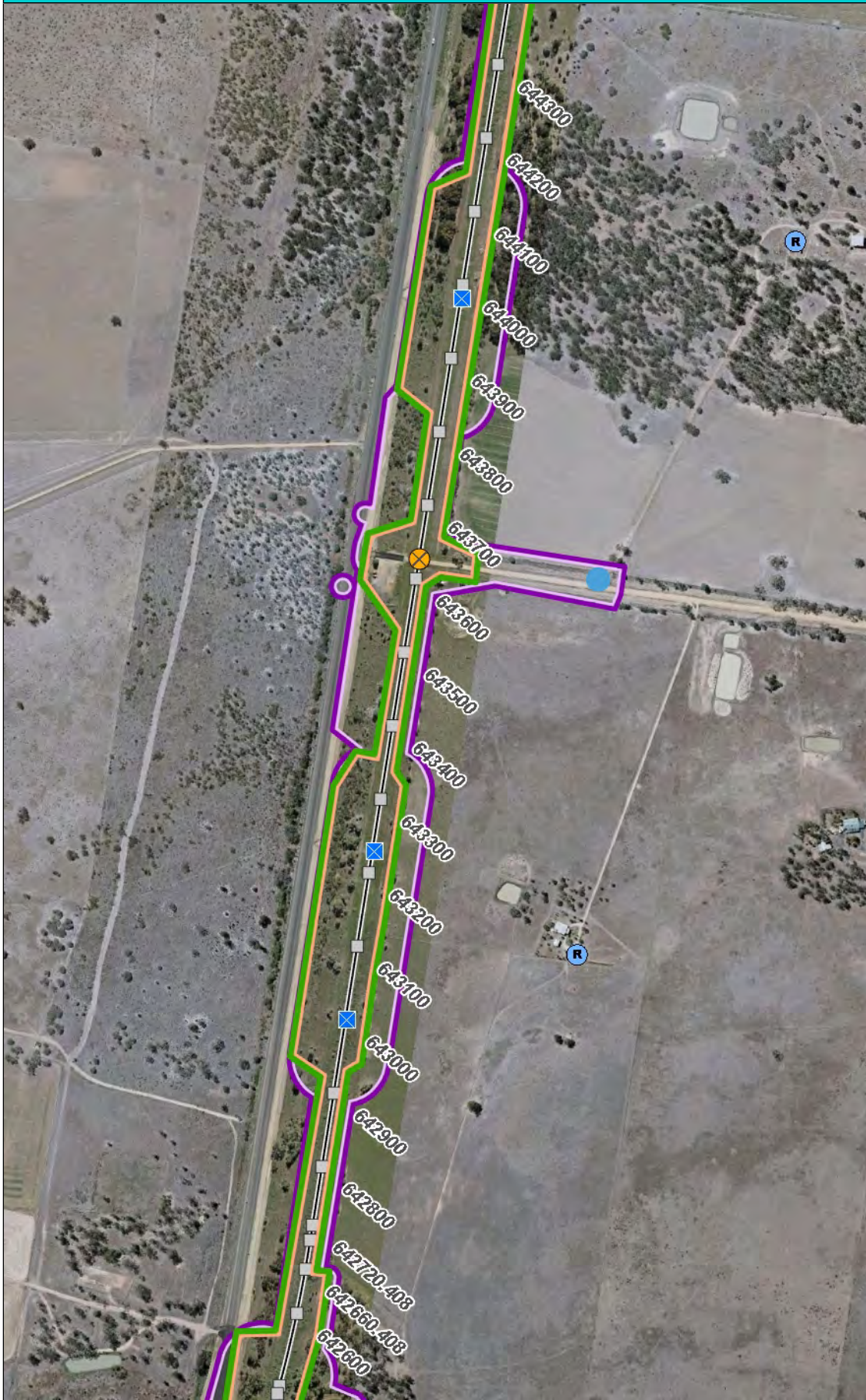
Scale: 1: 4,514

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Legend

- CIZ (20220725)
- CIZ (SPIR)
- R Bridges
- Level Crossings
 - X Public
 - X Private
 - X Pedestrian
- X Culverts
- S Signalling Points - Post IFC
- Signalling Lines - Post IFC
- Signalling Polygons - Post IFC
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.11 0.2 Kilometers

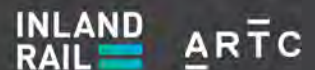
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

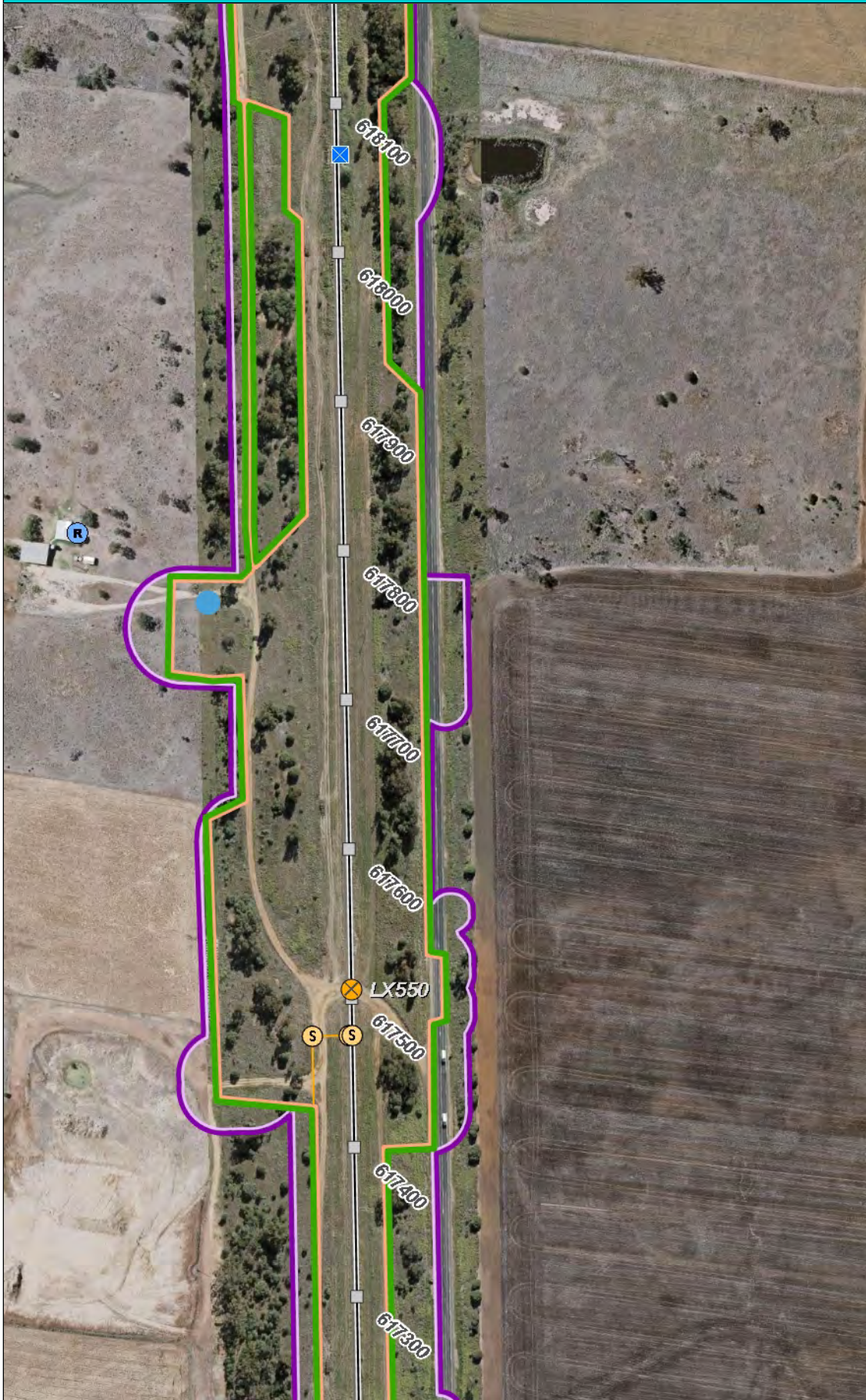
Notes:

Blue Dot - Noise Monitoring Location
(28th June 2022)

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - X Public
 - X Private
 - X Pedestrian
- X Culverts
- S Signalling Points - Post IFC
- Signalling Lines - Post IFC
- Signalling Polygons - Post IFC
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.06 0.1 Kilometers

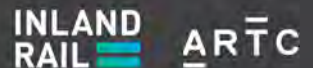
Scale: 1: 4,514

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

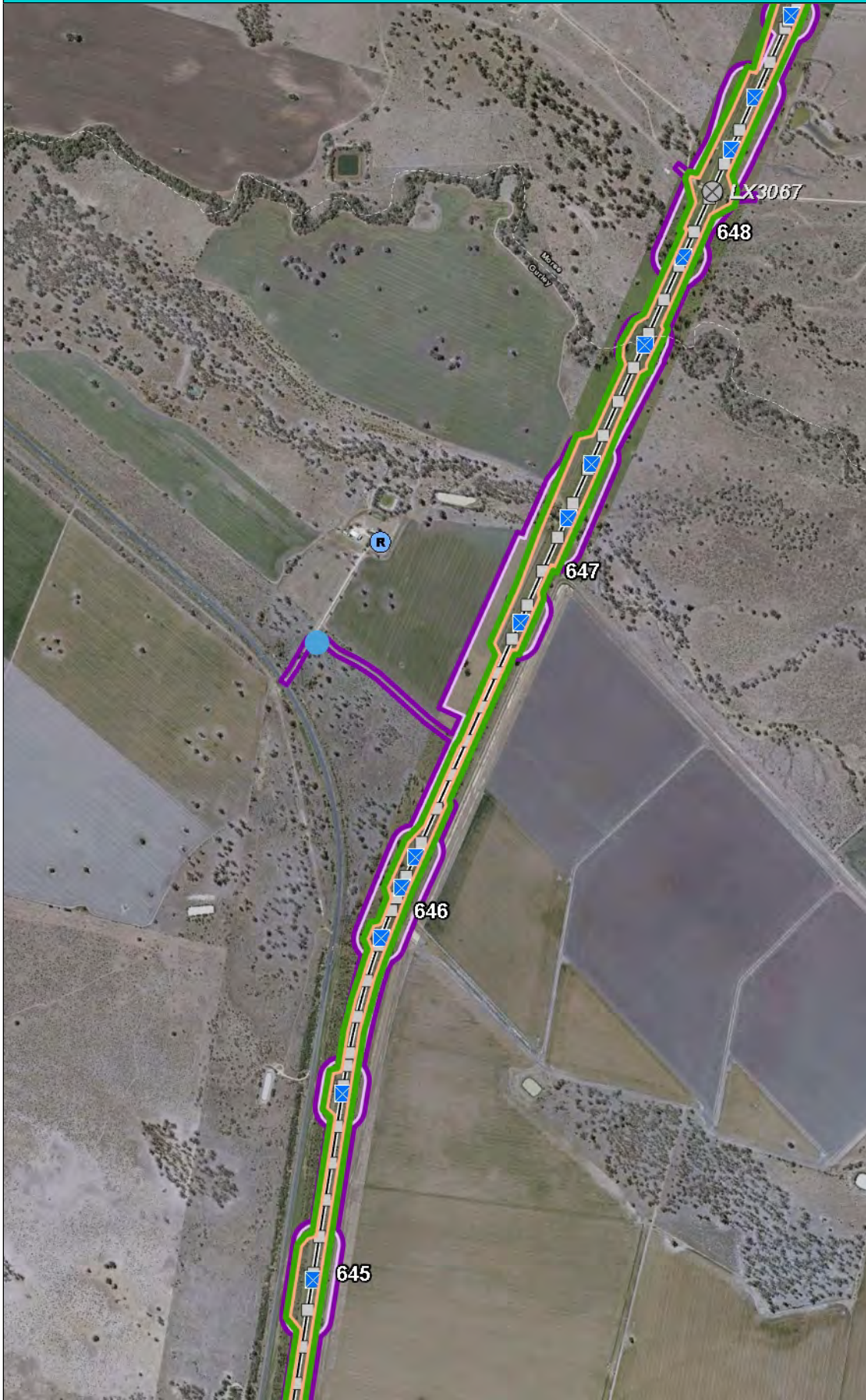
Notes:

Blue Dot - Noise Monitoring Location
(28th June 2022)

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Legend

- CIZ (20220725)
- CIZ (SPIR)
- Bridges
- Level Crossings
 - Public
 - Private
 - Pedestrian
- Culverts
- Signalling Points - Post IFC
- Signalling Lines - Post IFC
- Signalling Polygons - Post IFC
- Chainage 1km
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.23 0.5 Kilometers



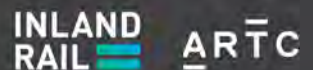
Scale: 1: 18,056

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Blue Dot - Noise Monitoring Location (28/06/2022)

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- ⊠ Culverts
- ⊙ Signalling Points - Post IFC
- Signalling Lines - Post IFC
- Signalling Polygons - Post IFC
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.06 0.1 Kilometers

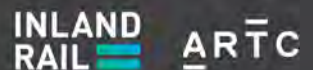
Scale: 1: 4,514

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

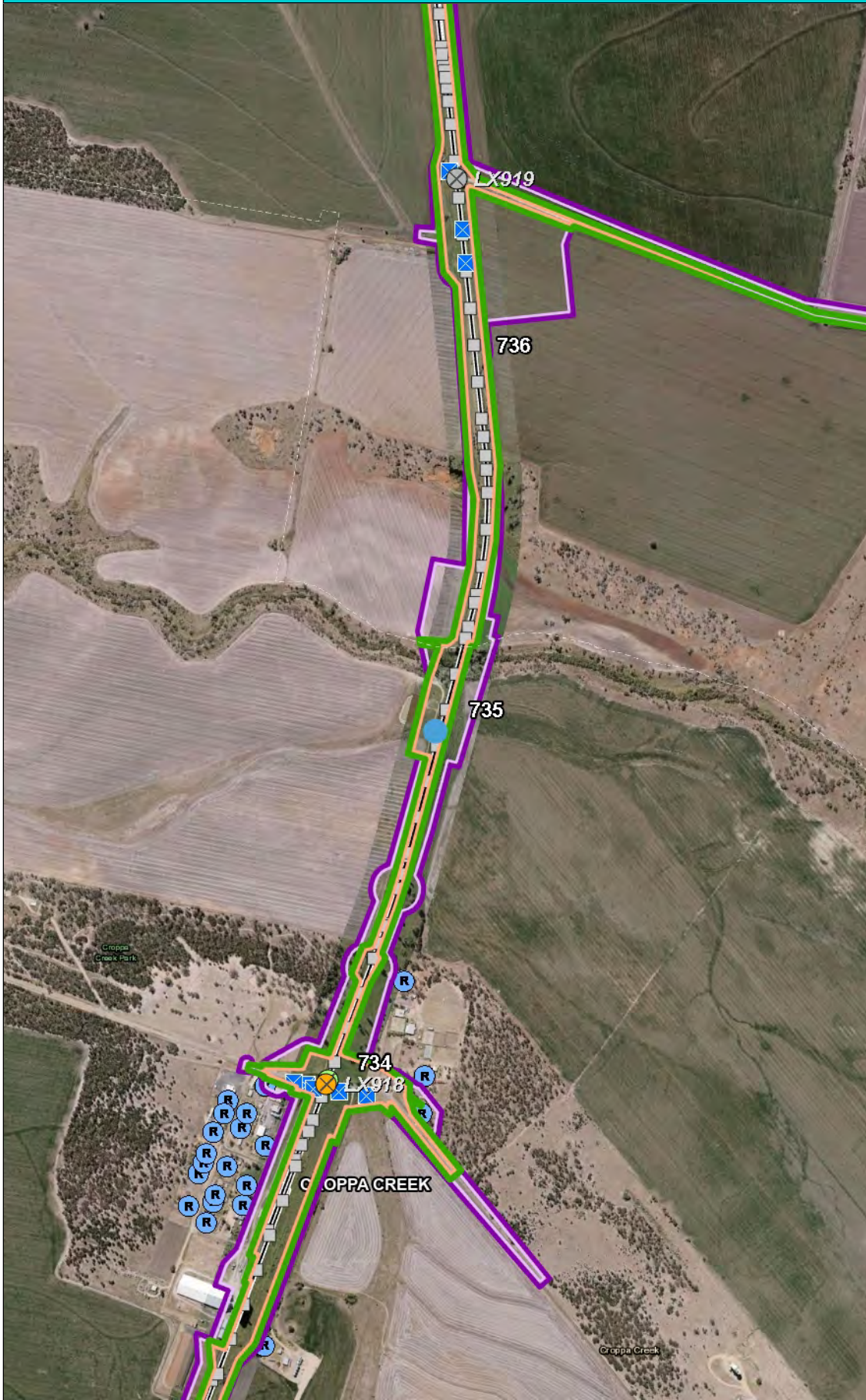
Notes:

Blue Dot - Noise Monitoring Location
(28th June 2022)

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - X Public
 - X Private
 - X Pedestrian
- X Culverts
- Chainage 1km
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.23 0.5 Kilometers

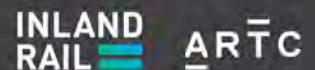
Scale: 1: 18,056

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

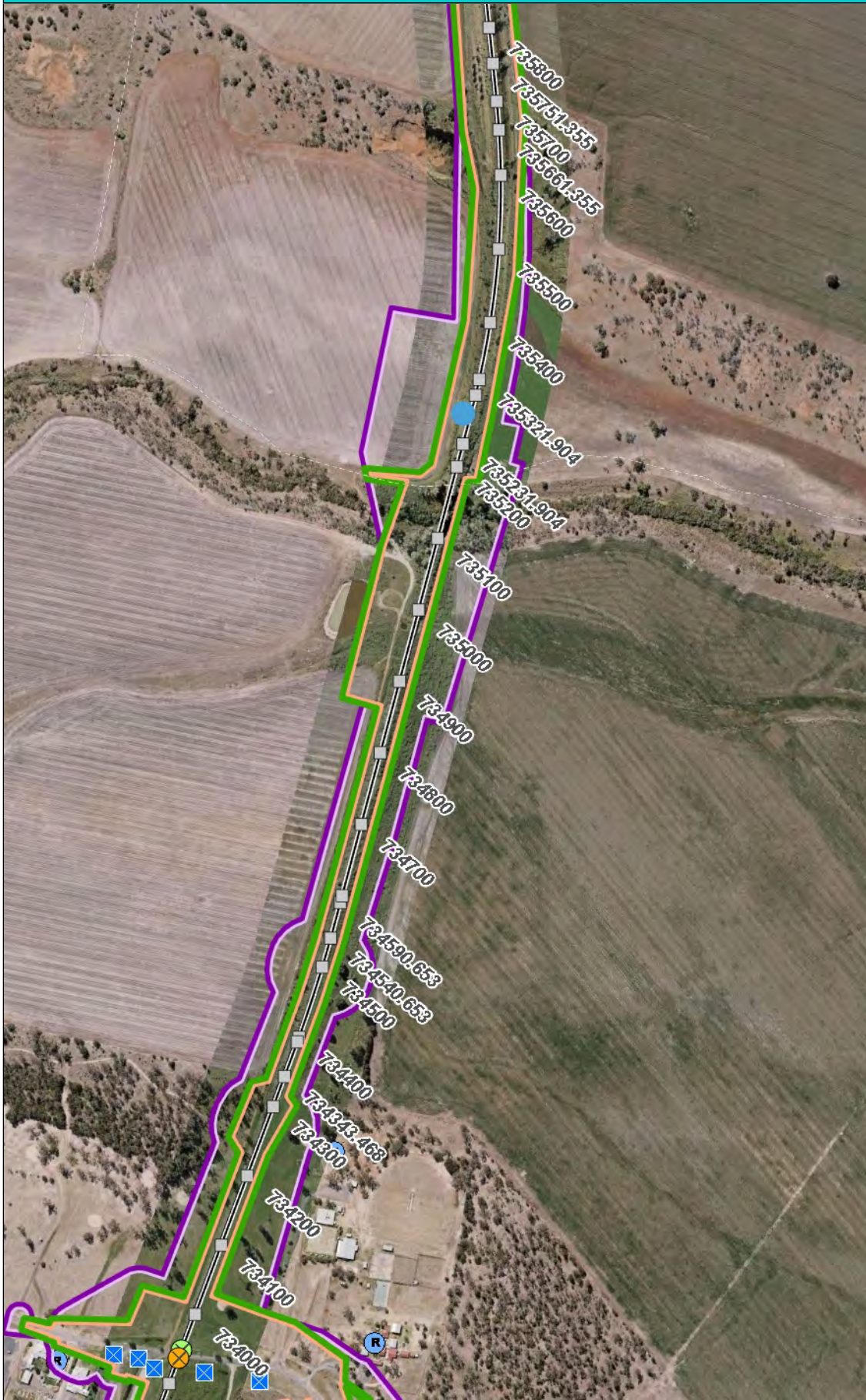
Notes:

Blue Dot - Noise Monitoring Location
(12/07/22)

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Legend

- CIZ (20220725)
- CIZ (SPIR)
- Bridges
- Level Crossings
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- ⊠ Culverts
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.11 0.2 Kilometers

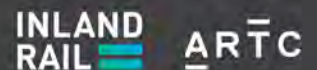
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

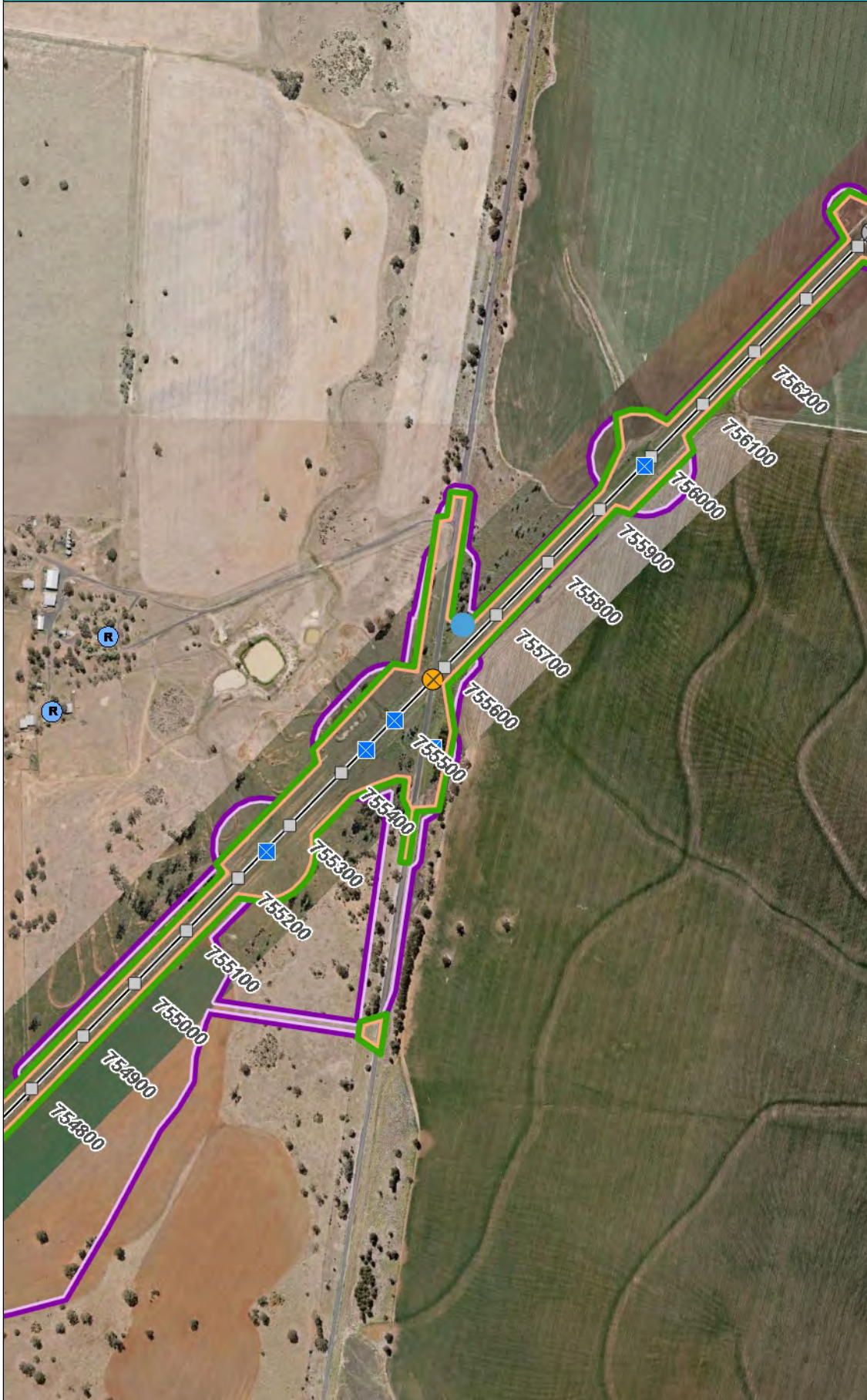
Notes:

Blue Dot - Noise Monitoring Location
(12/07/22)

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Legend

- CIZ (20220725)
- CIZ (SPIR)
- Bridges
- Level Crossings
 - Public
 - Private
 - Pedestrian
- Culverts
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.11 0.2 Kilometers



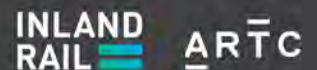
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Blue Dot - Noise Monitoring Location
(12/07/22)

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Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- ⊗ Culverts
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.11 0.2 Kilometers

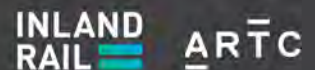
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Blue Dot - Noise Monitoring Location (12/07/22)

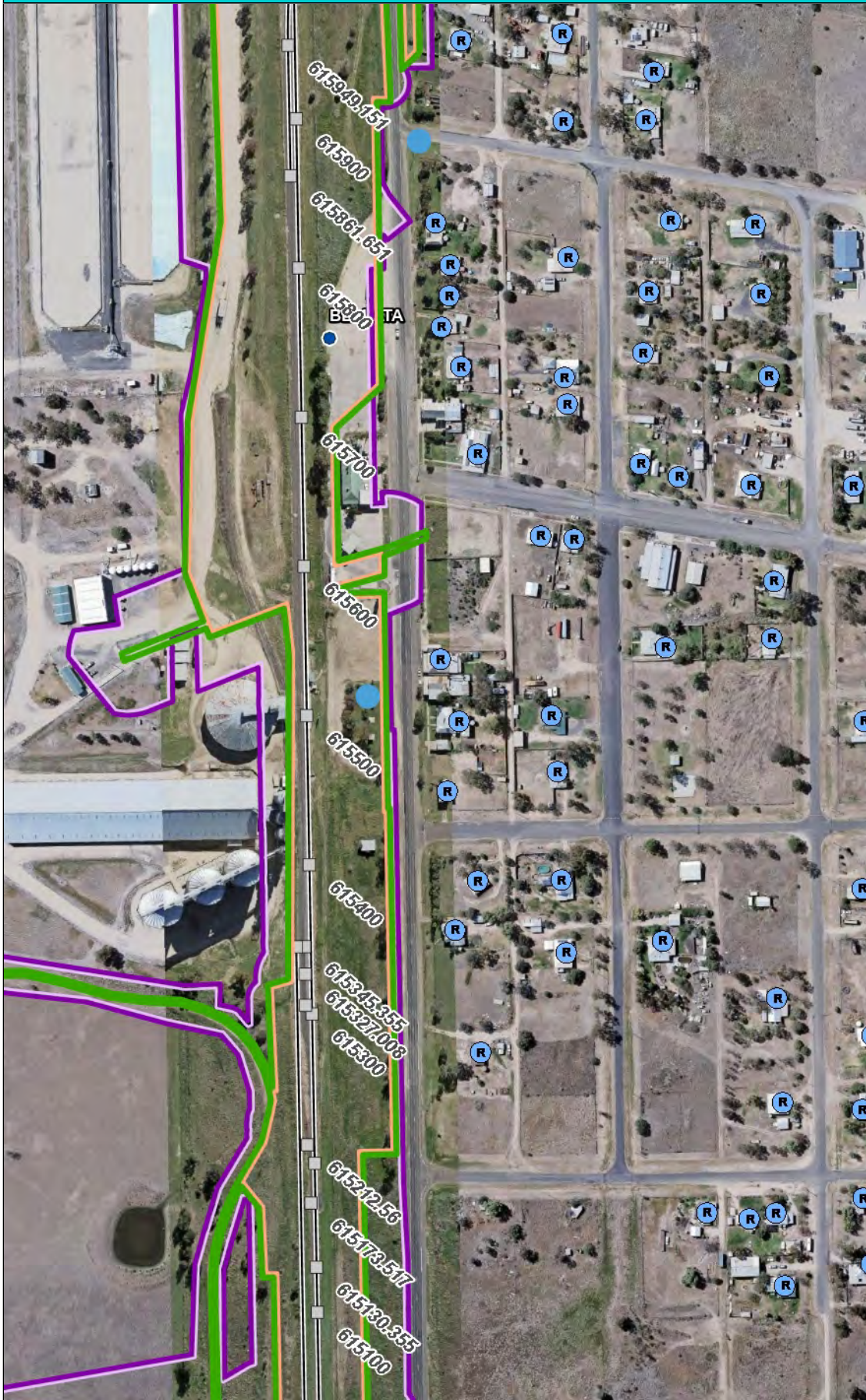
Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



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Bellata Noise Monitoring Location

INTERNAL USE ONLY



Legend

- CIZ (20220725)
- CIZ (SPIR)
- R Residential Receivers
- B Bridges
- Level Crossings
 - X Public
 - X Private
 - X Pedestrian
- X Culverts
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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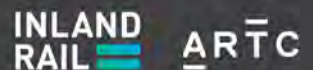
0 0.06 0.1 Kilometers

Scale: 1: 4,514

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Blue Dot - Noise Monitoring Location

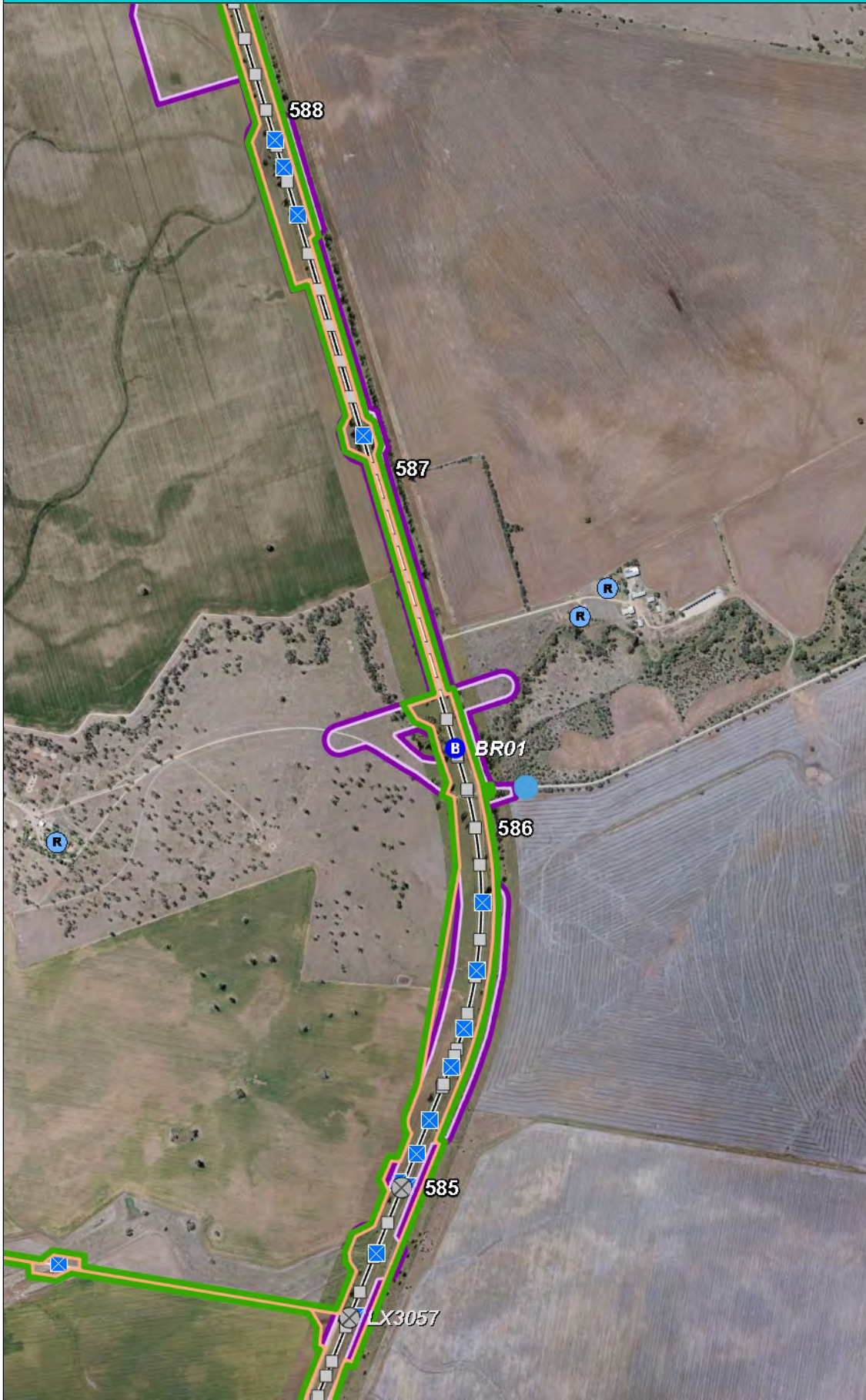


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Junefield Road Noise Monitoring Location

INTERNAL USE ONLY



Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - X Public
 - X Private
 - X Pedestrian
- X Culverts
- Chainage 1km
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.23 0.5 Kilometers



Scale: 1: 18,056

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Blue Dot - Noise Monitoring Location

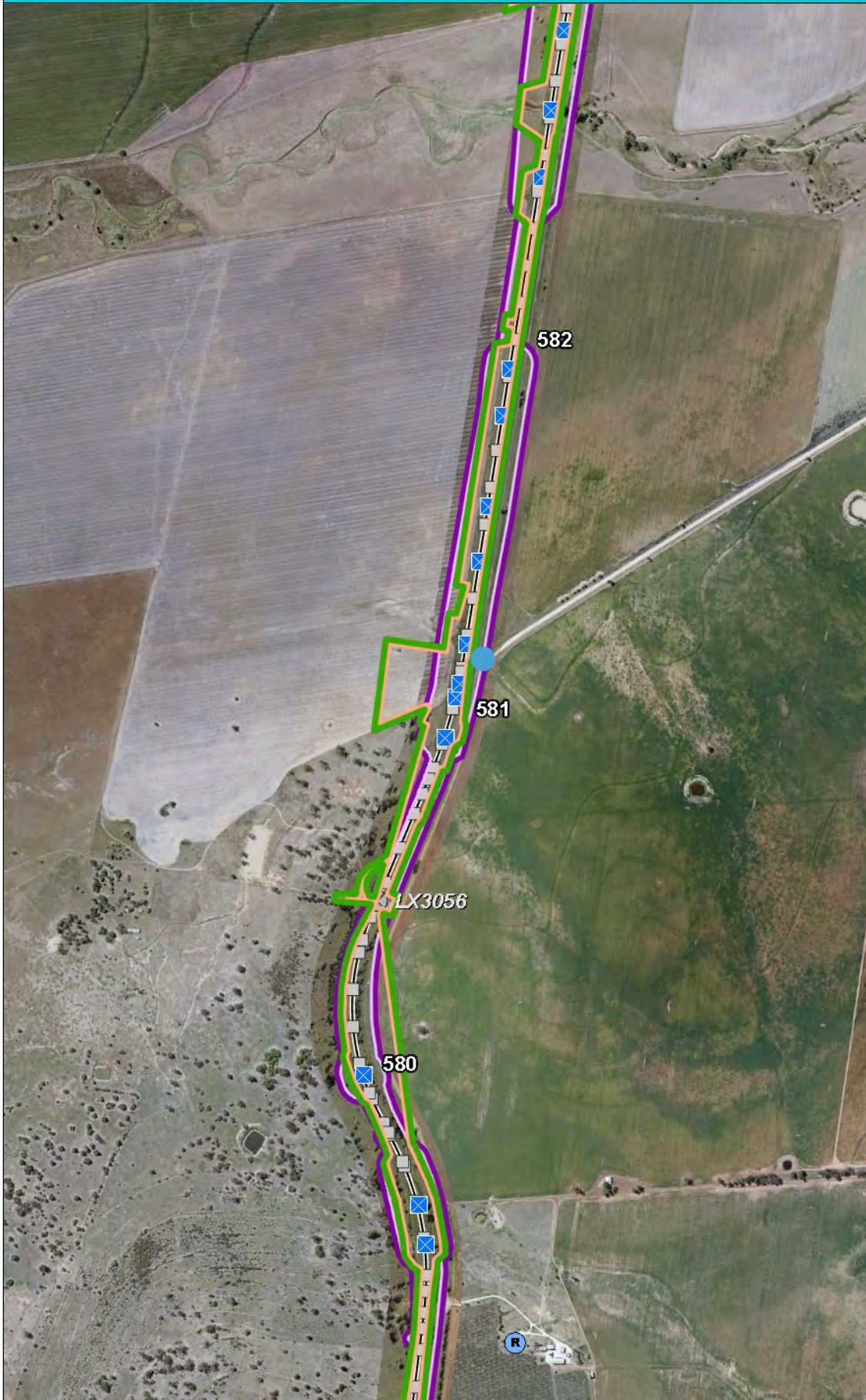
Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.

INLAND RAIL **ARTC**

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Murrumbilla Lane Noise Monitoring Location

INTERNAL USE ONLY



Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - Public
 - Private
 - Pedestrian
- X Culverts
- Chainage 1km
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.23 0.5 Kilometers

Scale: 1: 18,056

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Blue Dot - Noise Monitoring Location

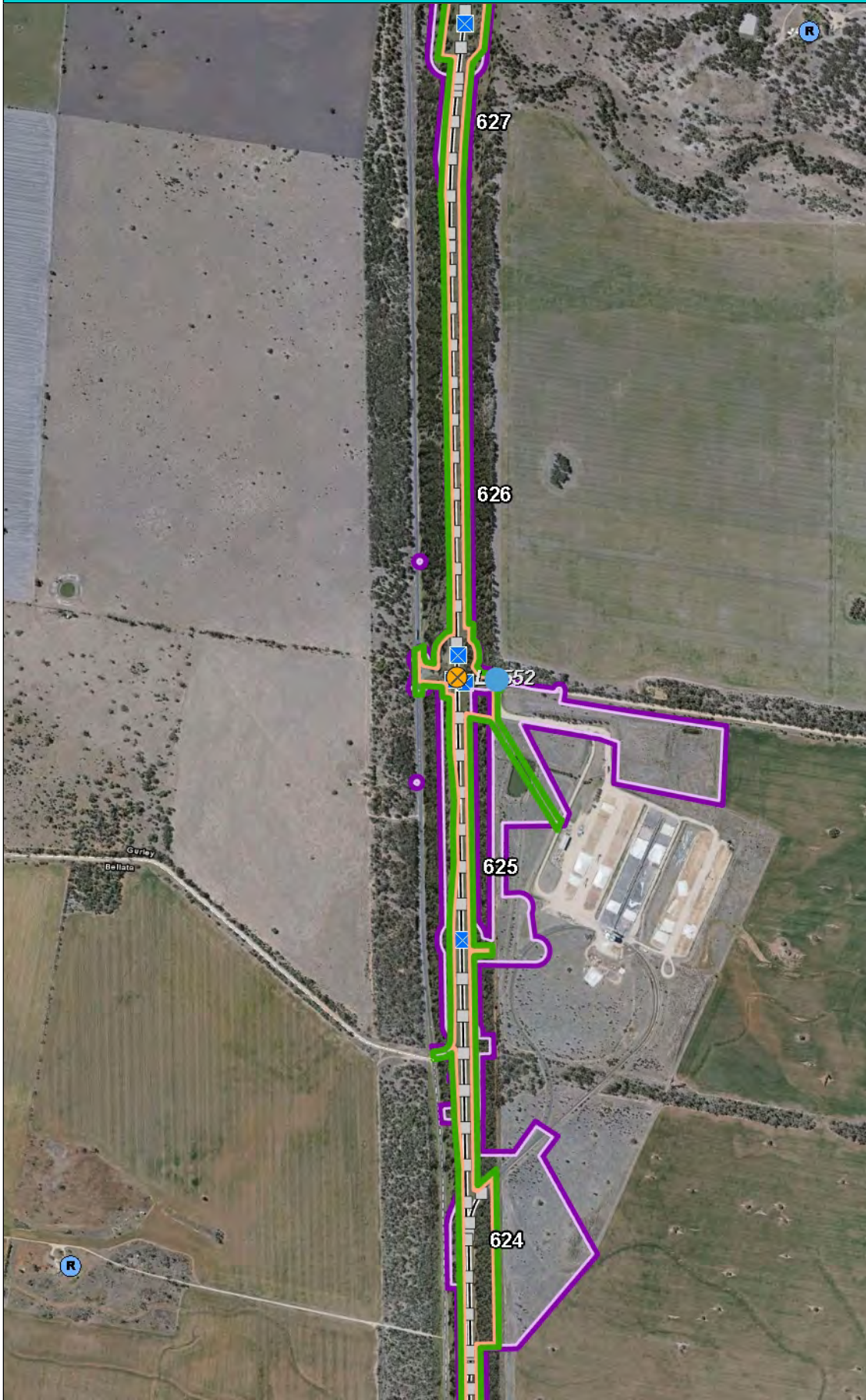
Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.

INLAND RAIL **ARTC**

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Penneys Lane Noise Monitoring Location

INTERNAL USE ONLY



Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - X Public
 - X Private
 - X Pedestrian
- X Culverts
- Chainage 1km
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.23 0.5 Kilometers



Scale: 1: 18,056

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Blue Dot - Noise Monitoring Location

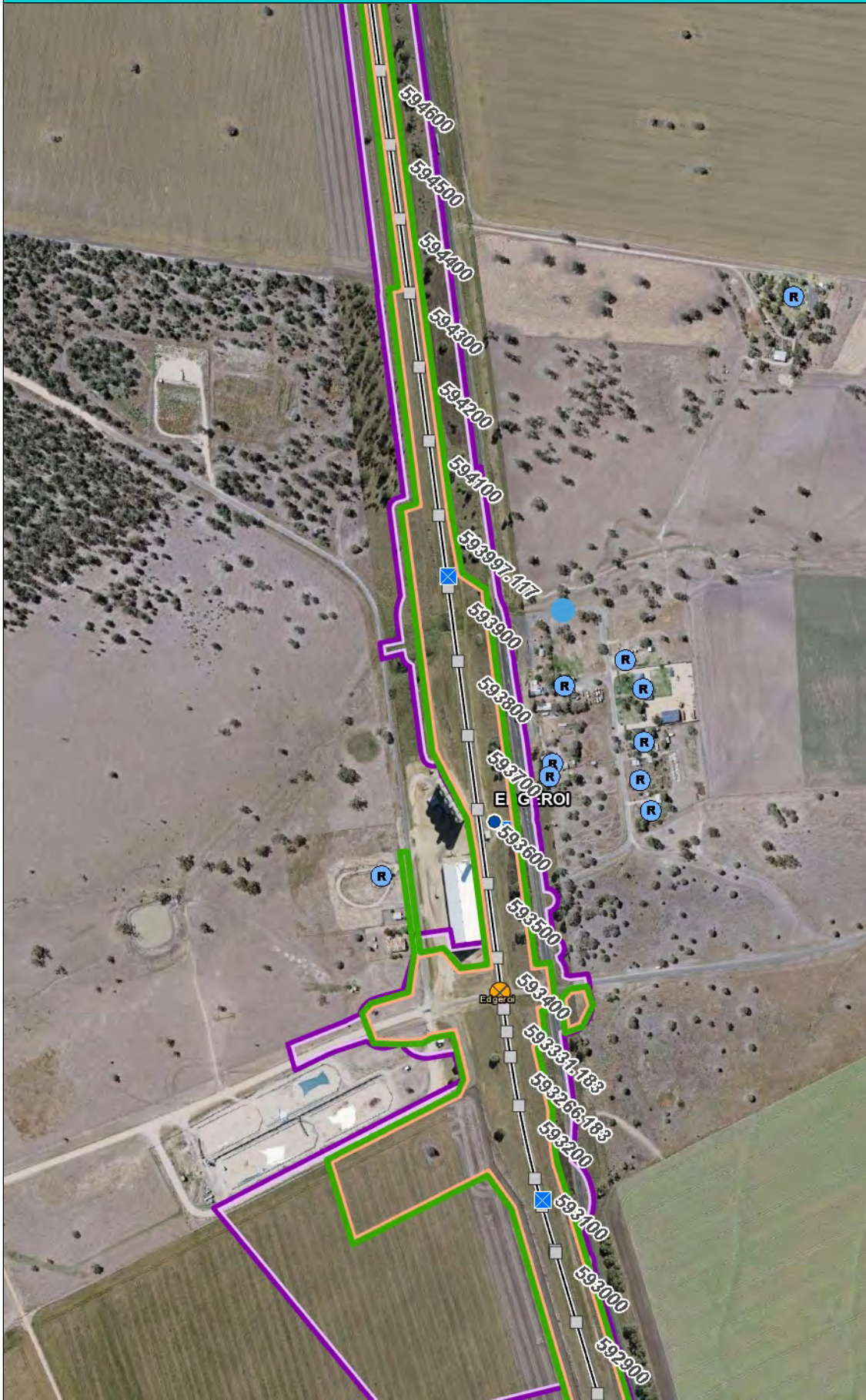
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INLAND RAIL **ARTC**

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Queen Street Noise Monitoring Location

INTERNAL USE ONLY



Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - Public
 - Private
 - Pedestrian
- Culverts
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.11 0.2 Kilometers

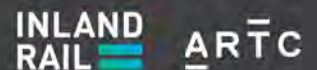
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Blue Dot - Noise Monitoring Location

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Smithfield Lane Noise Monitoring Location

INTERNAL USE ONLY



Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- ⊠ Culverts
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.11 0.2 Kilometers

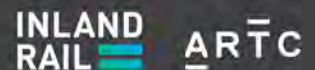
Scale: 1: 9,028

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Blue Dot - Noise Monitoring Location

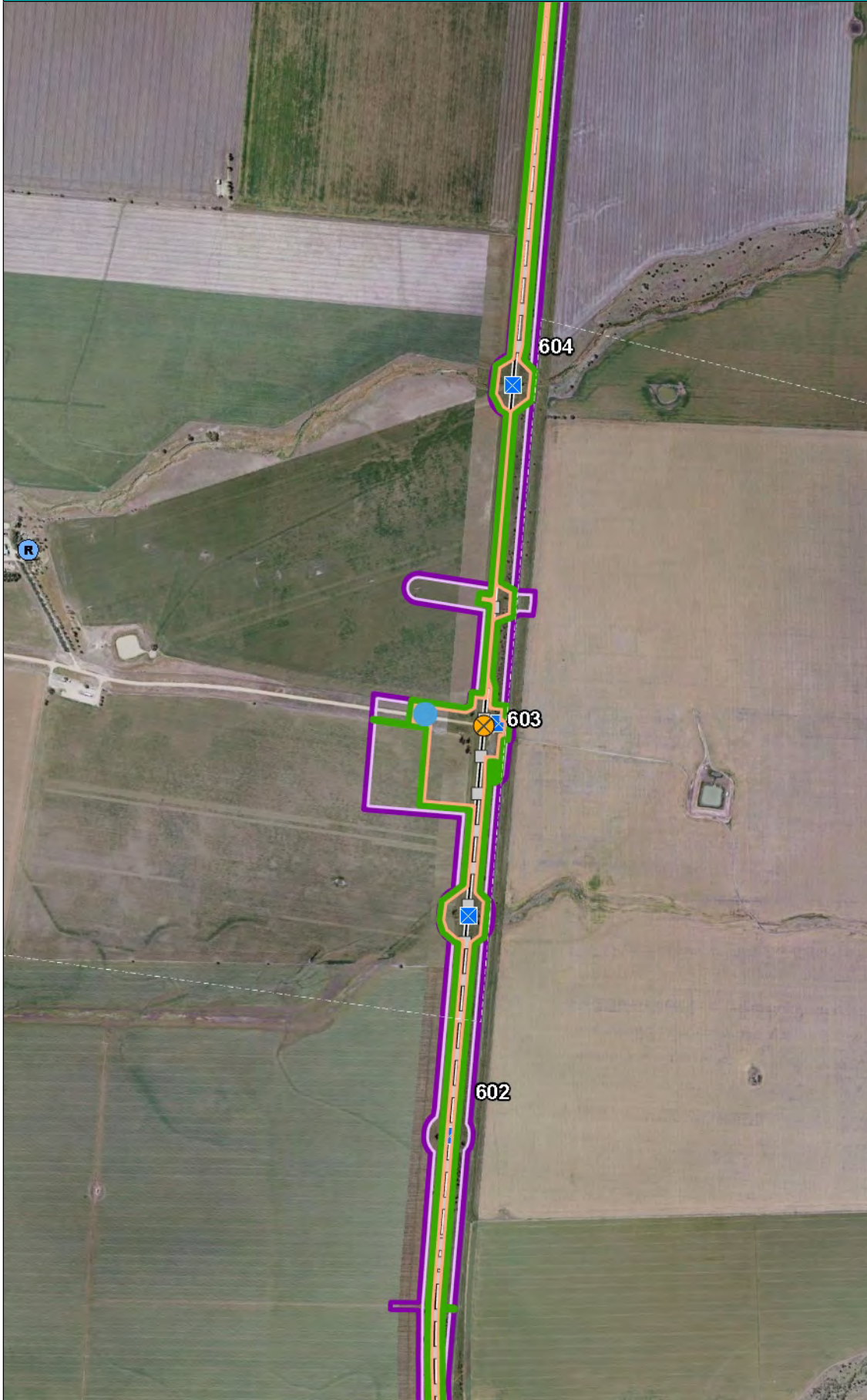
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The Clump Rd Noise Monitoring Location

INTERNAL USE ONLY



Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - X Public
 - X Private
 - X Pedestrian
- X Culverts
- Chainage 1km
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.23 0.5 Kilometers



Scale: 1: 18,056

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Blue Dot - Noise Monitoring Location

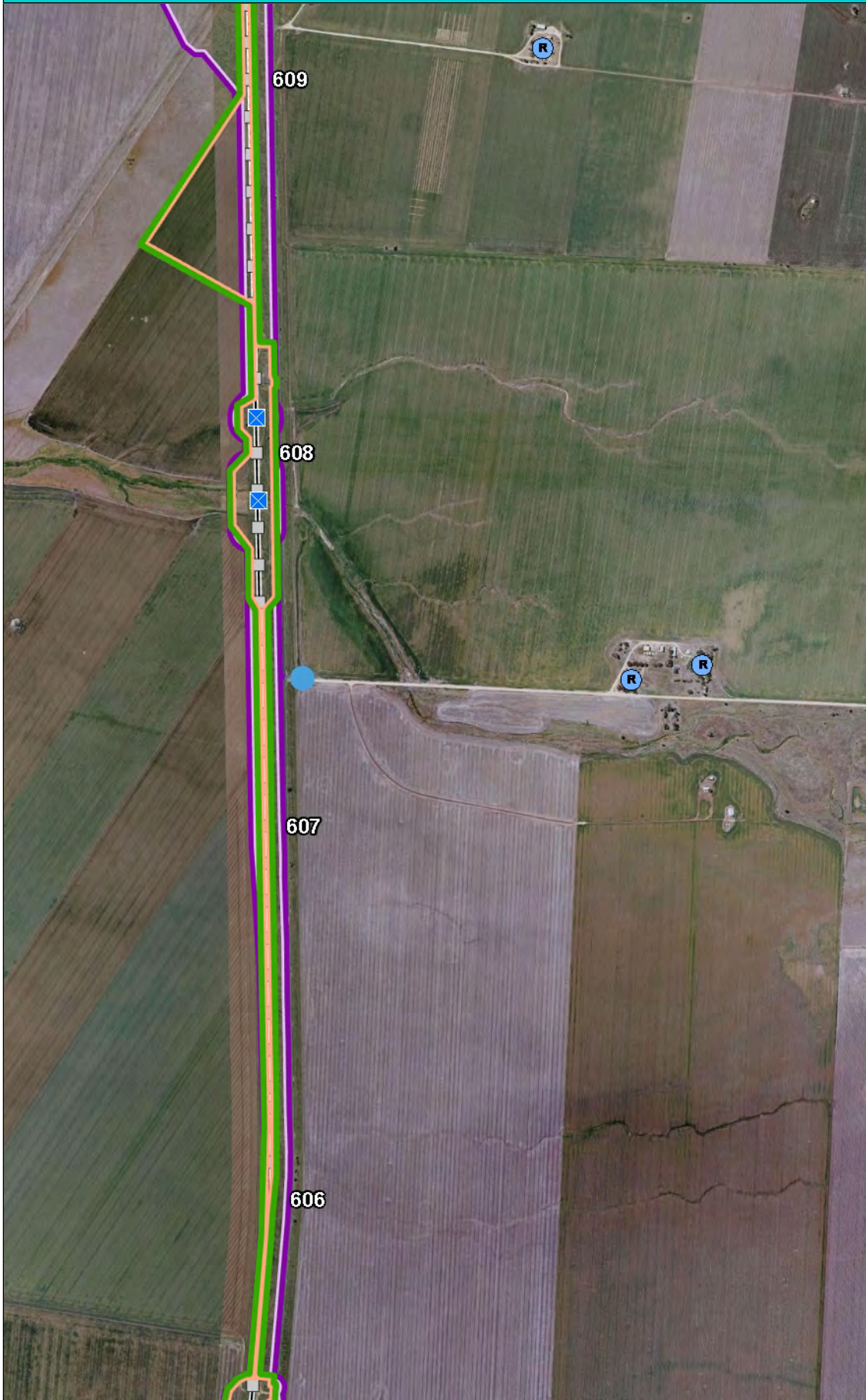
Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.

INLAND RAIL **ARTC**

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Trevana Lane Noise Monitoring Location

INTERNAL USE ONLY



Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- ⊠ Culverts
- Chainage 1km
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.23 0.5 Kilometers

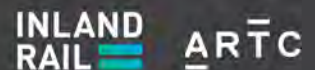
Scale: 1: 18,056

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:

Blue Dot - Noise Monitoring Location

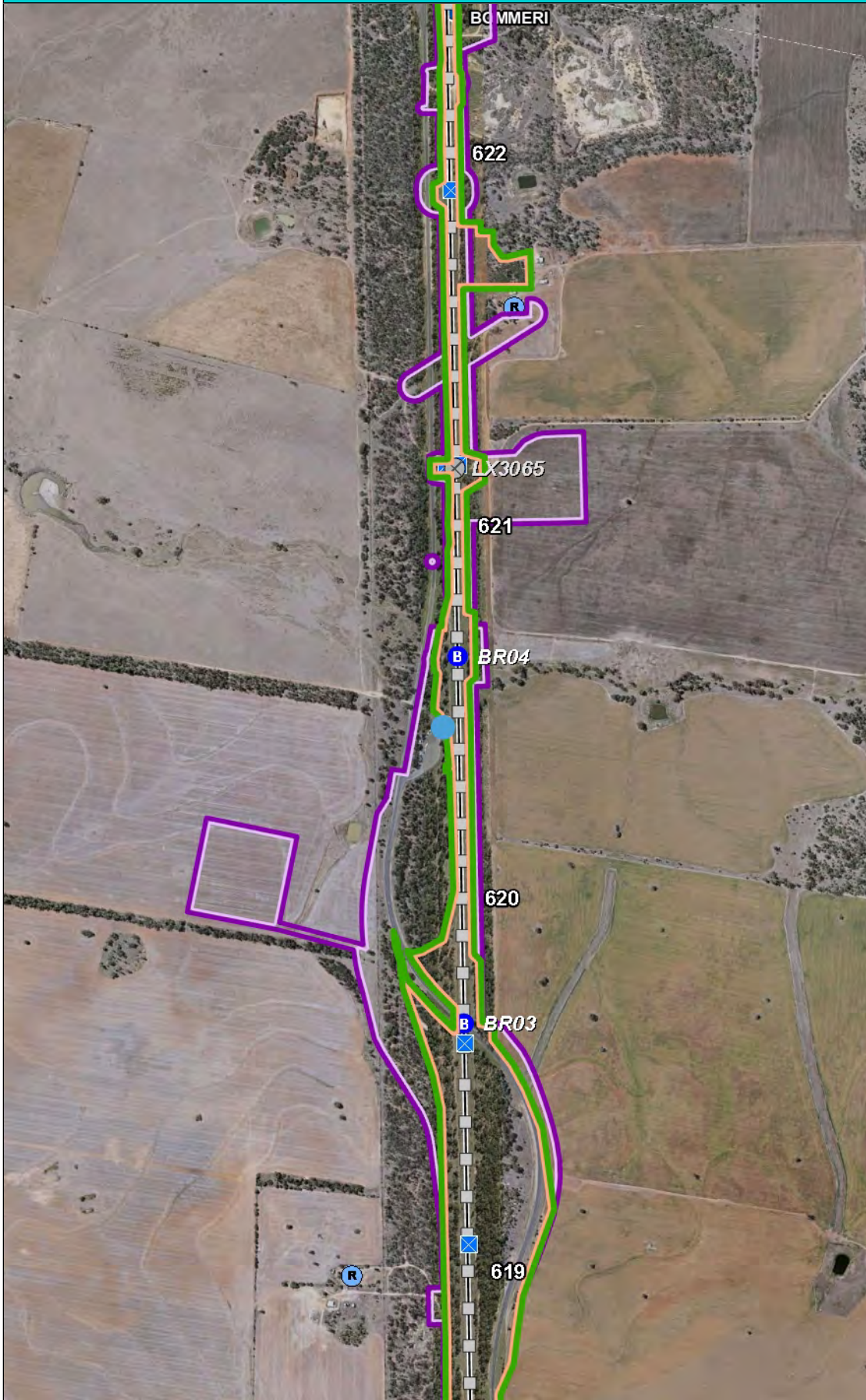
Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC) in partnership with the private sector.

Truck Stop Noise Monitoring Location

INTERNAL USE ONLY



Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- ⊠ Culverts
- Chainage 1km
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

DISCLAIMER:

The data published in Inland Rail's interactive GIS Mapping Applications is produced for information purposes only. Whilst every effort is made to ensure the accuracy of this data, ARTC and the Inland Rail Programme make no representations nor give any warranties or guarantees, express or implied, about the accuracy, adequacy, reliability, completeness or suitability of the data for any particular purpose and disclaim all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential loss or damages) and costs which you might incur as a result of this product being inaccurate or incomplete in any way and for any reason.



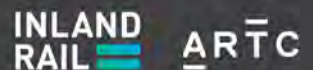
0 0.23 0.5 Kilometers

Scale: 1: 18,056

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

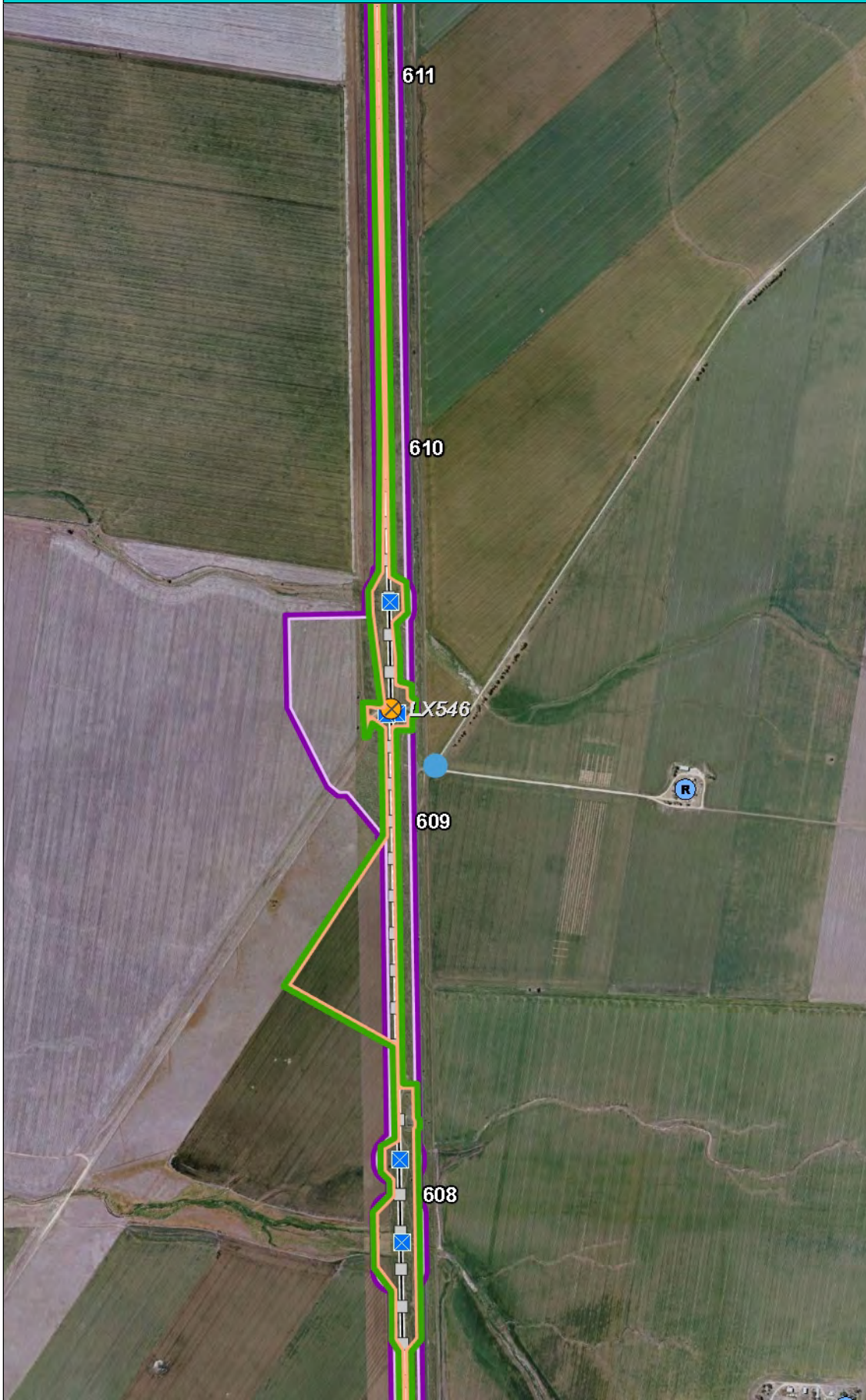
Notes:

Blue Dot - Noise Monitoring Location



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Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



Legend

- CIZ (20220725)
- CIZ (SPIR)
- B Bridges
- Level Crossings
 - ⊗ Public
 - ⊗ Private
 - ⊗ Pedestrian
- ⊠ Culverts
- Chainage 1km
- Chainage 100m (Post IFC)
- Rail Alignment (Post IFC)
- R Residential Receivers
- Railway Location
- ARTC Network
- Other Railways

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0 0.23 0.5 Kilometers

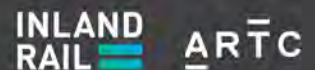
Scale: 1: 18,056

Projection: WGS_1984_Web_Mercator_Auxiliary_Sphere

Notes:


Blue Dot - Noise Monitoring Location

Note: ARTC web applications use the Web Mercator (EPSG:3857) coordinate system. This modified Mercator projection maximises system performance, but at the expense of distortion and accuracy. As such, all measurements carried out in these applications are to be regarded as approximate.



The Australian Government is delivering Inland Rail through the Australian Rail Track Corporation (ARTC), in partnership with the private sector.

Attachment H: Calibration Certificates




CERTIFICATE OF CALIBRATION AND TESTING

TSI Incorporated, 500 Cardigan Road, Shoreview, MN 55126 USA
Tel: 1-800-874-2811 1-651-490-2811 Fax: 1-651-490-3824 http://www.tsi.com

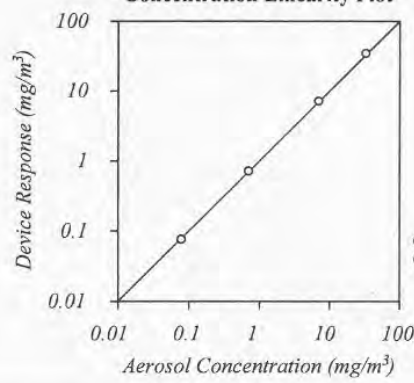
Environment Conditions			Model	8530
Temperature	75.23 (24.0)	°F (°C)	Serial Number	8530211516
Relative Humidity	36.2	%RH		
Barometric Pressure	28.82 (976.0)	inHg (hPa)		

As Left
 As Found

In Tolerance
 Out of Tolerance



Concentration Linearity Plot



○ = In Tolerance
● = Out of Tolerance
Tolerance : ±10%

System ID: DTH01-01

FLOW AND PRESSURE VERIFICATION				SYSTEM DTH01-01			
Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow lpm	3.00	3.06	2.88 ~ 3.12	Pressure kPa	97.5	97.5	92.60 ~ 102.34
Full Flow lpm	N/A	4.78	>3.80				

TSI Incorporated does hereby certify that all materials, components, and workmanship used in the manufacture of this equipment are in strict accordance with the applicable specifications agreed upon by TSI and the customer and with all published specifications. All performance and acceptance tests required under this contract were successfully conducted according to required specifications. There is no NIST standard for optical mass measurements. Calibration of this instrument performed by TSI has been done using emery oil and has been nominally adjusted to respirable mass per standard ISO 12103-1, A1 test dust (Arizona dust). Our calibration ratio is greater than 1.2:1

<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Measurement Variable</th> <th>System ID</th> <th>Last Cal.</th> <th>Cal. Due</th> </tr> </thead> <tbody> <tr> <td>Photometer</td> <td>E003433</td> <td>03-26-21</td> <td>09-30-21</td> </tr> <tr> <td>DC Voltage(Keithley)</td> <td>E002859</td> <td>06-15-20</td> <td>06-30-21</td> </tr> <tr> <td>Pressure</td> <td>E005651</td> <td>07-06-20</td> <td>07-31-21</td> </tr> <tr> <td>3 um PSL</td> <td>206030</td> <td>n/a</td> <td>n/a</td> </tr> </tbody> </table>	Measurement Variable	System ID	Last Cal.	Cal. Due	Photometer	E003433	03-26-21	09-30-21	DC Voltage(Keithley)	E002859	06-15-20	06-30-21	Pressure	E005651	07-06-20	07-31-21	3 um PSL	206030	n/a	n/a	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Measurement Variable</th> <th>System ID</th> <th>Last Cal.</th> <th>Cal. Due</th> </tr> </thead> <tbody> <tr> <td>Flowmeter</td> <td>E005922</td> <td>06-29-20</td> <td>06-30-21</td> </tr> <tr> <td>Microbalance</td> <td>M001324</td> <td>01-29-21</td> <td>01-31-23</td> </tr> <tr> <td>1 um PSL</td> <td>698880</td> <td>n/a</td> <td>n/a</td> </tr> <tr> <td>10 um PSL</td> <td>212455</td> <td>n/a</td> <td>n/a</td> </tr> </tbody> </table>	Measurement Variable	System ID	Last Cal.	Cal. Due	Flowmeter	E005922	06-29-20	06-30-21	Microbalance	M001324	01-29-21	01-31-23	1 um PSL	698880	n/a	n/a	10 um PSL	212455	n/a	n/a
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1 um PSL	698880	n/a	n/a																																						
10 um PSL	212455	n/a	n/a																																						

Nuradin Hussein

Calibrated

April 6, 2021

Date



kenelec scientific TSI Dusttrak
Calibration Certificate

Document KF 505
Revision C

Report Number: DT221268


Page 1 of 2

Customer	Eco Environmental Pty Ltd
Address	Unit 4, 15 Holt Street Pinkenba, Qld 4008
Contact	Joanne Gannon
Equipment	TSI Dusttrak
Model	8530
Serial Number	8530211516
Calibration Date	July 22, 2021
Condition as Received	New

Reference Instruments			
Measurement Variable	Model No.	Serial No.	Calibration Due
Photometer	858700	8587205101	15/12/2021
DC Voltage (Keithley)	2700	4364761	5/01/2022
Pressure	276140-SP	4146296	15/01/2022
Flow and Temperature	4140	41401118008	15/11/2021
1 um PSL	19518	698880	Apr-22
2.8 um PSL	19520	702200	Apr-22
10 um PSL	DC-10	187001	Jul-23

ENVIRONMENTAL CONDITIONS	
Ambient Temp	18°C
Humidity	56%RH
Barometric Pressure	1002hPa

Kenelec Scientific Pty Ltd Certifies That :-
All performance and acceptance tests required were successfully conducted according to required specifications. All test and calibration data supplied by Kenelec Scientific has been obtained using Emery Oil and has been nominally adjusted to respirable mass standard ISO 12103-1 AI Test Dust. Calibration of sizing is performed using the above particles and verified on the TSI calibration Bench.

Procedures Followed:	LABP1
Approved Signatory:	
Date:	26/07/2021

KENELEC SCIENTIFIC PTY LTD 23 Redland Drive T 03 9873 1022 info@kenelec.com.au www.kenelec.com.au
ABN 88 064 373 717 Mitcham Vic 3132 F 03 9873 0200

This Calibration Certificate shall not be reproduced except in full, without the written approval of Kenelec Scientific Pty Ltd



kenelec scientific TSI Dusttrak
Calibration Certificate

Document KF 505
Revision C

Report Number: DT221268

Page 2 of 2

CALIBRATION RESULTS			
As Left Verification Data			
Testing Number	Calibration Reference mg/m3	Instrument Output	Allowable Range +/- 10%
1	0.059	0.059	0.053 0.065
2	0.662	0.66	0.596 0.728
3	3.796	3.755	3.416 4.176
4	33.178	33.65	29.860 36.496

CALIBRATION RESULTS							
Flow And Pressure Verification				System DTII01-01			
Parameter	Standard	Measured	Allowable Range	Parameter	Standard	Measured	Allowable Range
Flow Lpm	3	3.080	3.150 - 2.850	Pressure kPA	99.631	99.630	104.613-94.649
Pump Run Hours:		0					

KENELEC SCIENTIFIC PTY LTD
ABN 88 064 373 717

23 Redland Drive
Mitcham Vic 3132

T 03 9873 1022
F 03 9873 0200

info@kenelec.com.au www.kenelec.com.au

This Calibration Certificate shall not be reproduced except in full, without the written approval of Kenelec Scientific Pty Ltd

Page 2 of 2

DustTrak Service Report

ECO-FOR-022



Date	8/4/22	Company	TRANS4M
Start Time	11:00	HIREPOS OC#	10288
Finish Time	12:30	Station Name	BRISBANE
Serial Number	8530 211516	Technician	ROBERT B
Asset Number			

1) Visual Inspection of Equipment		Comment
Instrument power on	✓	
Is the inlet free of obstructions	N/A	
Is the inlet tube clear of any kinks	N/A	
Any service warnings	NO	

2) DustTrak Readings (pre-service)				
Dust reading (DustTrak / Logger)	0.11	mg/m3	Logger	
Zero Check (Filter Attached)	0.00	mg/m3		
Full scale check (generate some dust)	0.87	mg/m3		
Flow 3.0L/m (+/- 0.1)	3.02	L/min		

3) Maintenance	Serviced or replaced	Comment
Inlet head (every visit)	Serviced/Replaced/Checked	N/A
Water trap (every visit)	Serviced/Replaced/Checked	N/A
Impactor plate (if fitted)	Serviced/Replaced/Checked	Particle size
Internal filters	Serviced/Replaced/Checked	Filter colour

4) Service		Comment
Leak check (does pump stop & restart?)	Yes/No	
Zero calibration	Yes/No	
Flow calibrated	Yes/No	
Does unit run after power-up?	Yes/No	

5) DustTrak Readings (post-service)				
Dust reading (DustTrak / Logger)	0.007	mg/m3		
Zero Check (Filter Attached)	0.00	mg/m3		
Full scale check (generate some dust)	0.55	mg/m3		
Flow 3.0L/m (+/- 0.1)	3.004	L/min		

6) Calibration					
Calibration date	22/7/21				
Pump run time	992	hours	Cum Mass	2.2	mg
Date filter last changed	22/7/21		Cum Filter Mass	2.2	mg

7) System Parameters					
Solar (V)	N/A	Solar panel rating (Watt)		Angle / Dirn	
Battery (V)	N/A	Solar panel open circuit (V)		Time	
Load (V)	N/A	Solar panel short circuit (A)		Weather	
		System Current Drain (A)		RSSI (dB) < -107	

8) Recommendations for Next Site Visit or Comments
INSECT REMAINS FOUND IN 37MM FILTER AND INTERNAL FILTER



3-20-41 Higashimotomachi Kokubunji Tokyo 185-8533
Phone:042(359)7888, Facsimile:042(359)7442

Certificate of Calibration

Name : Sound Level Meter, Class 1
Model : NL-52 **S/No.** : 00710356
Date of Calibration : August, 03, 2021

We hereby certify that the above product was tested and calibrated according to the prescribed Rion procedures, and that it fulfills specification requirements.
The measuring equipment and reference devices used for testing and calibrating this unit are managed under the Rion traceability system and are traceable according to official Japanese standards and official standards of countries belonging to the International Committee of Weights and Measures.

RION CO., LTD.

Manager, Quality Control Department



Supplied Accessories

< 1 / 1 >

Model	NL-52	Product Name	Sound Level Meter, Class 1
--------------	-------	---------------------	----------------------------

Ensure all the items below are in the package.
If there is a missing part, please contact your supplier.

Type	Description	Quantity	Note
NL-52	Main unit	1	
NL-42-025	Storage case	1	
WS-10	Windscreen	1	
NL-42-033	Windscreen fall prevention rubber	1	attached to the main unit
VM-63-017	Hand strap	1	
LR6	Size AA alkaline batteries	4	
	CD-ROM (Instruction manual, Serial interface manual, Technical notes, Program option manual)	1	
	Description for IEC 61672-1	1	
	SD memory card (512 MByte)	1	only when NX-42EX is pre-installed
	Inspection certificate	1	This sheet
	Document for China RoHS	1	only to China

Inspection Certificate

INSPECTOR



We hereby certify that this product has been tested and calibrated at our factory according to RION specifications and that the product satisfies all relevant requirements.

RION CO., LTD.
3-20-41 Higashimotomachi, Kokubunji,
Tokyo 185-8533,
Japan

Sound and Vibration Measuring Instrument Section Product information and software downloads can be found on our web-site:
<https://rion-sv.com/>
Please check it out.

№C11030502



**Acoustic
Research
Labs Pty Ltd**

Unit 36/14 Loyalty Rd
North Rocks NSW AUSTRALIA 2151
Ph: +61 2 9484 0800 A.B.N. 65 160 399 119
www.acousticresearch.com.au

Sound Level Meter
IEC 61672-3:2013
Calibration Certificate
Calibration Number C21675

Client Details T4MR
64-68 Balo Street
Moree NSW 2400


Equipment Tested/ Model Number : Rion NL-52EX
Instrument Serial Number : 00710356
Microphone Serial Number : 19630
Pre-amplifier Serial Number : 10898

Pre-Test Atmospheric Conditions
Ambient Temperature : 23.5°C
Relative Humidity : 50.3%
Barometric Pressure : 99.8kPa

Post-Test Atmospheric Conditions
Ambient Temperature : 24.6°C
Relative Humidity : 47.9%
Barometric Pressure : 99.7kPa

Calibration Technician : Lucky Jaiswal
Calibration Date : 14 Oct 2021

Secondary Check: Harrison Kim
Report Issue Date : 14 Oct 2021

Approved Signatory : 

Ken Williams

Clause and Characteristic Tested	Result	Clause and Characteristic Tested	Result
12: Acoustical Sig. tests of a frequency weighting	Pass	17: Level linearity incl. the level range control	Pass
13: Electrical Sig. tests of frequency weightings	Pass	18: Toneburst response	Pass
14: Frequency and time weightings at 1 kHz	Pass	19: C Weighted Peak Sound Level	Pass
15: Long Term Stability	Pass	20: Overload Indication	Pass
16: Level linearity on the reference level range	Pass	21: High Level Stability	Pass

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed.

As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation test performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2013.

Least Uncertainties of Measurement - Environmental Conditions			
Acoustic Tests		Temperature	±0.2°C
125Hz	±0.13dB	Relative Humidity	±2.4%
1kHz	±0.13dB	Barometric Pressure	±0.015kPa
8kHz	±0.14dB		
Electrical Tests	±0.10dB		

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.



This calibration certificate is to be read in conjunction with the calibration test report.

Acoustic Research Labs Pty Ltd is NATA Accredited Laboratory Number 14172. Accredited for compliance with ISO/IEC 17025 - calibration.

The results of the tests, calibrations and/or measurements included in this document are traceable to SI units.

NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports.

PAGE 1 OF 1



**Acoustic
Research
Labs Pty Ltd**

Unit 36/14 Loyalty Rd
North Rocks NSW AUSTRALIA 2151
Ph: +61 2 9484 0800 A.B.N. 65 160 399 119
www.acousticresearch.com.au

Sound Calibrator

IEC 60942-2017

Calibration Certificate

Calibration Number C21676

Client Details T4MR
64-68 Balo Street
Moree NSW 2400

Equipment Tested/ Model Number : Rion NC-75
Instrument Serial Number : 34813438

Atmospheric Conditions

Ambient Temperature : 23.3°C
Relative Humidity : 51.3%
Barometric Pressure : 100.2kPa

Calibration Technician : Lucky Jaiswal
Calibration Date : 13 Oct 2021
Secondary Check: Harrison Kim
Report Issue Date : 14 Oct 2021

Approved Signatory :  Ken Williams

Characteristic Tested	Result
Generated Sound Pressure Level	Pass
Frequency Generated	Pass
Total Distortion	Pass

Nominal Level	Nominal Frequency	Measured Level	Measured Frequency
94	1000	94.05	1000.00

The sound calibrator has been shown to conform to the class 1 requirements for periodic testing, described in Annex B of IEC 60942:2017 for the sound pressure level(s) and frequency(ies) stated, for the environmental conditions under which the tests were performed.

Specific Tests	Least Uncertainties of Measurement - Environmental Conditions		
	Temperature	±0.2°C	
Generated SPL	±0.11dB	Relative Humidity	±2.4%
Frequency	±0.18%	Barometric Pressure	±0.015kPa
Distortion	±0.50%		

All uncertainties are derived at the 95% confidence level with a coverage factor of 2.

* The tests <1000 kHz are not covered by Acoustic Research Labs Pty Ltd NATA accreditation



This calibration certificate is to be read in conjunction with the calibration test report.

Acoustic Research Labs Pty Ltd is NATA Accredited Laboratory Number 14172. Accredited for compliance with ISO/IEC 17025 - calibration

The results of the tests, calibrations and/or measurements included in this document are traceable to SI units

NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration and inspection reports

Attachment I: Edgeroi Silos and Loading Facility - TM815-02F01 Edgeroi vibration monitoring (r1), dated 29/7/2022

29 July 2022

TM815-02F01 Edgeroi vibration monitoring (r1).docx

Trans4m Rail Joint Venture

Adam Playne

Adam.Playne@t4mr.com.au

From: Andy Ngo [Andy.Ngo@renzotonin.com.au]

Narrabri To North Star (N2NS) Inland Rail - Edgeroi Vibration Monitoring Report

1 Introduction

Renzo Tonin & Associates was engaged by Trans4m Rail to conduct vibration monitoring during dynamic compaction works near the Silos and Loading Facility at Edgeroi for Narrabri to North Star Inland Rail project. The location of these works is shown in APPENDIX A. The vibration monitoring was undertaken to monitor potentially affected structures. This report provides a summary of the monitoring results.

2 Vibration monitoring details

Two unattended vibration monitors were installed at Edgeroi to monitoring for the period between 6th May and 29th June 2022. Vibration monitors were installed at Silo and Loading Facility to monitor vibration levels to be experienced by these structures.

Table 1 below presents the instrumentation used and monitoring locations. Refer to APPENDIX A of this report for an aerial photograph indicating monitoring locations.

Table 1 - Equipment and Measurement Details

Monitoring ID	Equipment	Assessment point (Refer to Appendix A)	Date	Vibration intensive equipment in use monitored	Approx. distance to Plant
M1	Sigicom C22 – S/N 102478	Silos	6 th May 2022 – 29 th June 2022	Vibratory roller	Varies – minimum distance 10m.
M2	Sigicom C22 – S/N 102477	Loading Facility	6 th May 2022 – 29 th June 2022	Vibratory roller	Varies – minimum distance 5m.

3 Vibration monitoring results

The established vibration criteria for cosmetic damage in the Narrabri to North Star Construction Noise and Vibration Management Sub-Plan (CNVMP) (T4MR Ref: 7632-T4MR-PL-PES-001-04, Rev 1, dated 18/8/2021) for the affected receiver types are shown in Table 2 below.

Table 2 - Transient vibration guide values - minimal risk of cosmetic damage (BS 7385) - peak component particle velocity (PPV), mm/s

LINE	TYPE OF STRUCTURE	FREQUENCY RANGE 4 TO 15 HZ	FREQUENCY RANGE 15 TO 40 HZ	FREQUENCY RANGE 40 HZ AND ABOVE
1	Reinforced or framed structures. Industrial and heavy commercial buildings.	50mm/s	50mm/s	50mm/s
2	Unreinforced or light framed structures. Residential or light commercial type buildings.	15mm/s at 4Hz, increasing to 20mm/s at 15Hz	20mm/s at 15Hz, increasing to 50mm/s at 40Hz	50mm/s

Based on information provided within the Dilapidation report for the Edgeroi Facility (Ref: 22-57-GrainCorp Edgeroi, dated 4th March 2022), the Silos and Loading Facility are considered reinforced structures in this case.

As per the CNVMP, due to the continuous nature of the vibratory roller, this may potentially give rise to dynamic magnification due to resonance of the structures. The British Standard 7385 states that for these cases, the guide values provided in Table 2 may be reduced by up to 50%. On this basis, a conservative vibration damage screening level for the Silos and Loading Facility has been taken as 25mm/s.

The overall results of the unattended vibration monitoring at the two locations are presented in Figure 1 and 2 below with markers showing points of interest.

Figure 1 - Unattended vibration monitoring results at location M1 - Silos (PPV, mm/s)

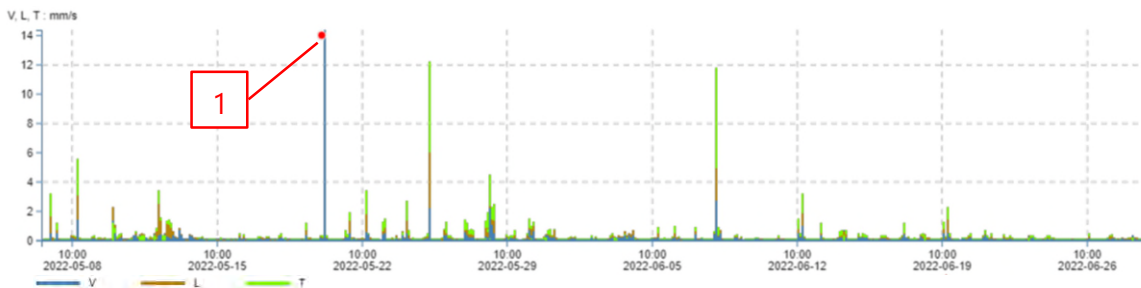
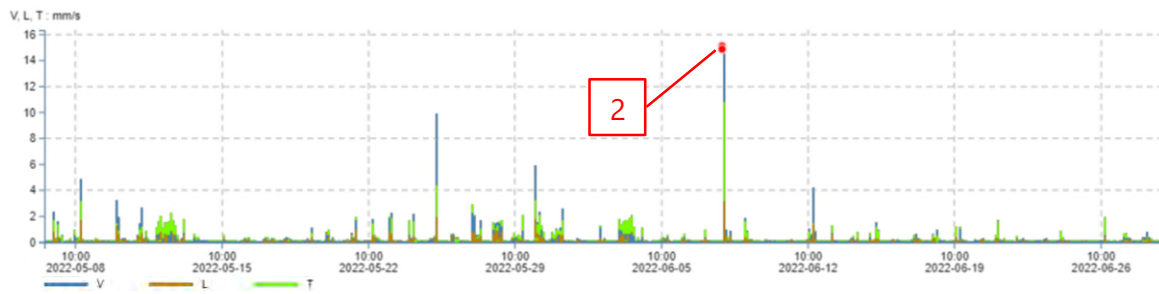


Figure 2 - Unattended vibration monitoring results at location M2 - Loading Facilities (PPV, mm/s)



To manage the works and ensure that works do not exceed the nominated vibration limits, alerts were triggered when vibration levels above 12.5mm/s. Events above this level are shown in Figure 1 and 2.

Table 3 below presents a summary of the markers shown in Figure 1 and 2.

Table 3 - Unattended vibration monitoring summary

Marker ID	Date and Time	Comments
Monitoring Location M1 – Silos		
1	20.05.2022 11:58am	Associated with a battery change on vibration monitor. Not due to construction works.
Monitoring Location M2 – Loading Facility		
2	08.06.2022 7:48am	Works in close proximity to vibration monitor at time of alert. Project personnel investigated construction works but source of event undetermined, and further works did not result in alerts.

Based on the measured vibration data, the vibration levels produced from the dynamic compaction works were below the nominated criteria of 25mm/s which was not exceeded throughout the monitoring period.

Appendix B of this report presents the daily breakdown of the vibration monitoring.

4 Conclusion

Renzo Tonin and Associates have completed vibration monitoring for the dynamic compaction works along the rail line at the Edgeroi Silos and Loading Facility. The results of the unattended vibration monitoring indicated that works did not exceed the established vibration criteria throughout the monitoring period.

Document control

Date	Revision history	Non-issued revision	Issued revision	Prepared	Instructed	Reviewed / Authorised
29.07.2022	Draft	0	1	A. Ngo	A. Leslie	A. Leslie

File Path: R:\AssocSydProjects\TL801-TL850\TL815 ale Narrabri to North Star N2NS\1 Docs\Task 2 Edgeroi Silos\TM815-02F01 Edgeroi vibration monitoring (r1).docx

Important Disclaimers:

The work presented in this document was carried out in accordance with the Renzo Tonin & Associates Quality Assurance System, which is based on Australian/New Zealand Standard AS/NZS ISO 9001.

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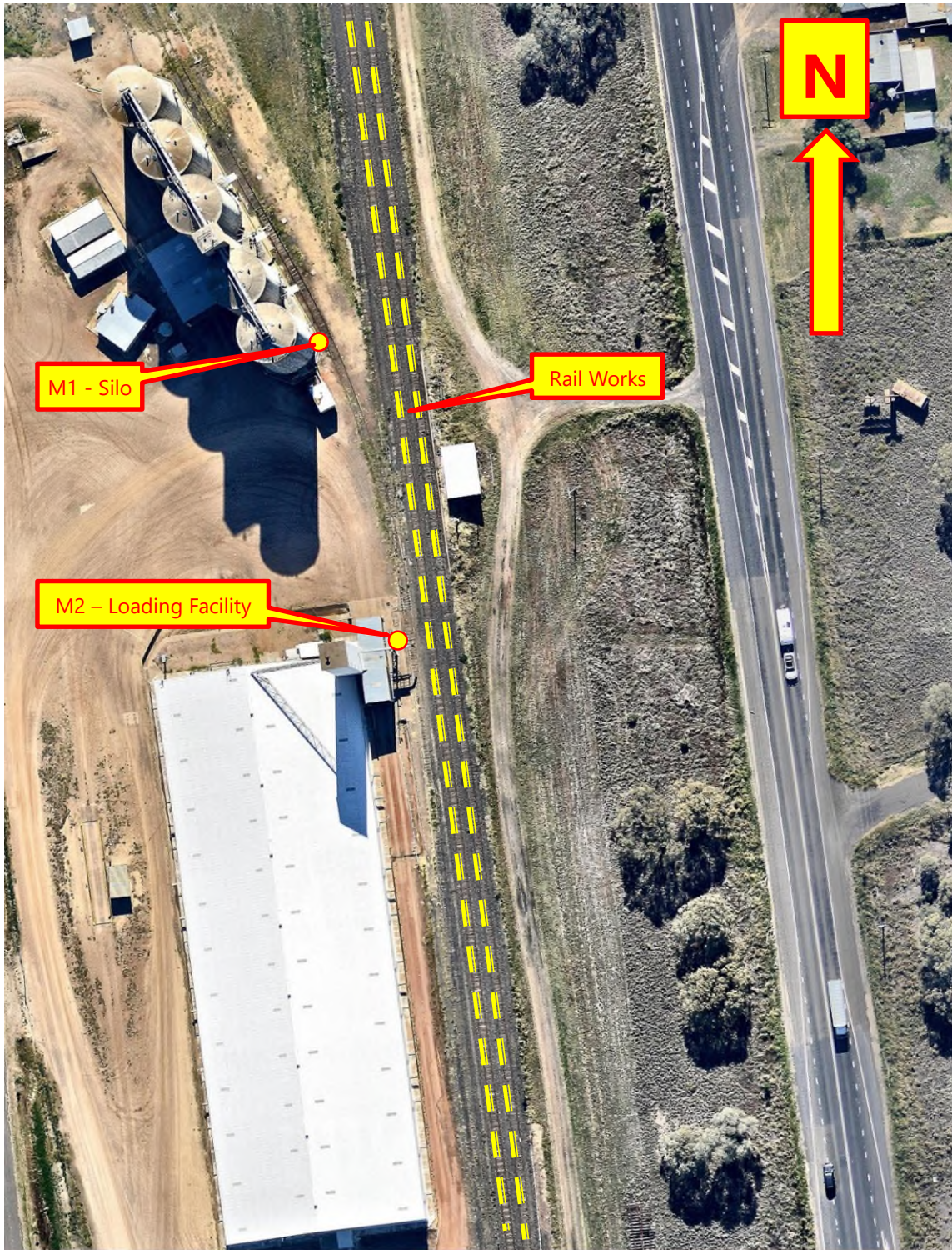
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APPENDIX A Vibration monitoring locations



Imagery: Nearmap, 2022

Attachment J: Ten Mile Creek Bridge Piling - TM815-03F01 Ten Mile Creek vibration monitoring (r1), dated 29/7/2022

29 July 2022

TM815-03F01 Ten Mile Creek vibration monitoring (r1).docx

Trans4m Rail Joint Venture

Adam Playne

Adam.Playne@t4mr.com.au

From: Andy Ngo [Andy.Ngo@renzotonin.com.au]

Narrabri To North Star (N2NS) Inland Rail - Ten Mile Creek Vibration Monitoring Report

1 Introduction

Renzo Tonin & Associates was engaged by Trans4m Rail to conduct vibration monitoring during impact piling works for the road bridge at Ten Mile Creek for Narrabri to North Star Inland Rail project. The location of these works is shown in APPENDIX A. The vibration monitoring was undertaken to monitor potentially affected structures. This report provides a summary of the monitoring results.

2 Vibration monitoring details

Two unattended vibration monitors were installed at Ten Mile Creek to monitoring for the period between 20th May and 17th June 2022. Vibration monitors were installed at the north and south ends at the base of the road bridge to monitor the bridge structure throughout the vibration intensive impact piling works.

Table 1 below presents the instrumentation used and monitoring locations. Refer to Appendix A of this report for an aerial photograph indicating monitoring locations.

Table 1 - Equipment and Measurement Details

Monitoring ID	Equipment	Assessment point (Refer to Appendix A)	Date	Vibration intensive equipment in use monitored	Approx. distance to Plant
M1	Sigicom C12 – S/N 70190	North end of bridge.	20 th May 2022 and 17 th June 2022	Impact pile driver	40m
M2	Sigicom C22 – S/N 102479	South end of bridge.	20 th May 2022 and 17 th June 2022	Impact pile driver	40m

3 Vibration monitoring results

The established vibration criteria for cosmetic damage in the Narrabri to North Star Construction Noise and Vibration Management Sub-Plan (CNVMP) (T4MR Ref: 7632-T4MR-PL-PES-001-04, Rev 1, dated 18/8/2021) for the affected receiver types are shown in Table 2 below.

Table 2 - Transient vibration guide values - minimal risk of cosmetic damage (BS 7385) - peak component particle velocity (PPV), mm/s

LINE	TYPE OF STRUCTURE	FREQUENCY RANGE 4 TO 15 HZ	FREQUENCY RANGE 15 TO 40 HZ	FREQUENCY RANGE 40 HZ AND ABOVE
1	Reinforced or framed structures. Industrial and heavy commercial buildings.	50mm/s	50mm/s	50mm/s
2	Unreinforced or light framed structures. Residential or light commercial type buildings.	15mm/s at 4Hz, increasing to 20mm/s at 15Hz	20mm/s at 15Hz, increasing to 50mm/s at 40Hz	50mm/s

In this case, the road bridge is considered a reinforced structure, and as such this vibration limit was adopted in consultation with project personnel to manage the works.

As per the CNVMP, impact piling activities are considered to have the potential to cause dynamic loading in some structures. The British Standard 7385 states that for these cases, the guide values provided in Table 2 may be reduced by up to 50%. On this basis, a conservative vibration damage screening level for the Ten Mile Creek road bridge has been taken as 25mm/s.

The overall results of the unattended vibration monitoring at the two locations are presented in Figure 1 and 2 below.

Figure 1 - Unattended vibration monitoring results at location M1 – North (PPV, mm/s)

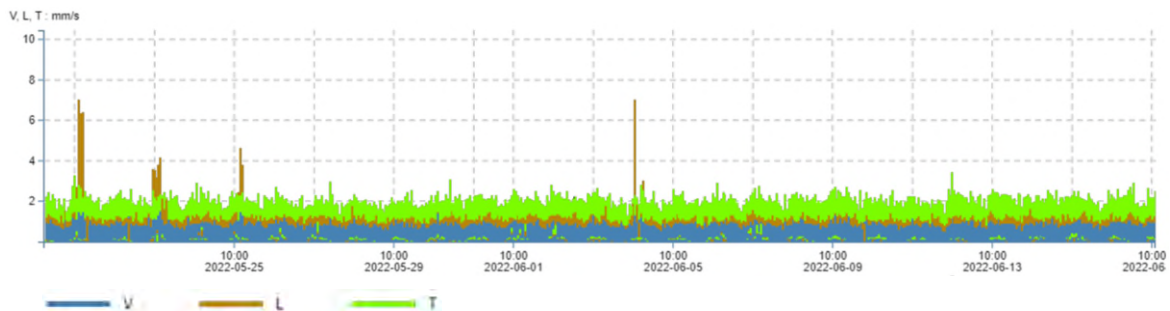
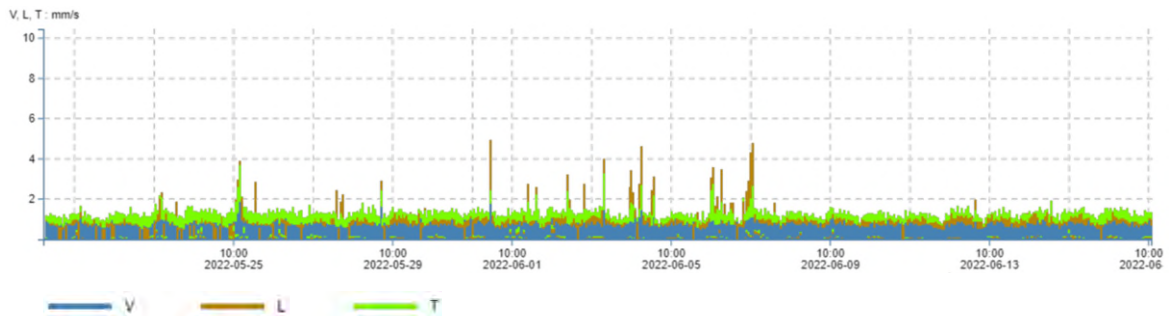


Figure 2 - Unattended vibration monitoring results at location M2 – South (PPV, mm/s)



Based on the measured vibration data, the vibration levels produced from the piling works were below the nominated criteria of 25mm/s which was not exceeded throughout the monitoring period.

Appendix B of this report presents the daily breakdown of the vibration monitoring.

4 Conclusion

Renzo Tonin and Associates have completed vibration monitoring during impact piling works for the road bridge at Ten Mile Creek. The results of the unattended vibration monitoring indicated that works did not exceed the established vibration criteria throughout the monitoring period.

Document control

Date	Revision history	Non-issued revision	Issued revision	Prepared	Instructed	Reviewed / Authorised
29.07.2022	Initial issue	0	1	A. Ngo	A. Leslie	A. Leslie

File Path: R:\AssocSydProjects\TL801-TL850\TL815 ale Narrabri to North Star N2NS\1 Docs\Task 3 Ten Mile Creek\TM815-03F01 Ten Mile Creek vibration monitoring (r1).docx

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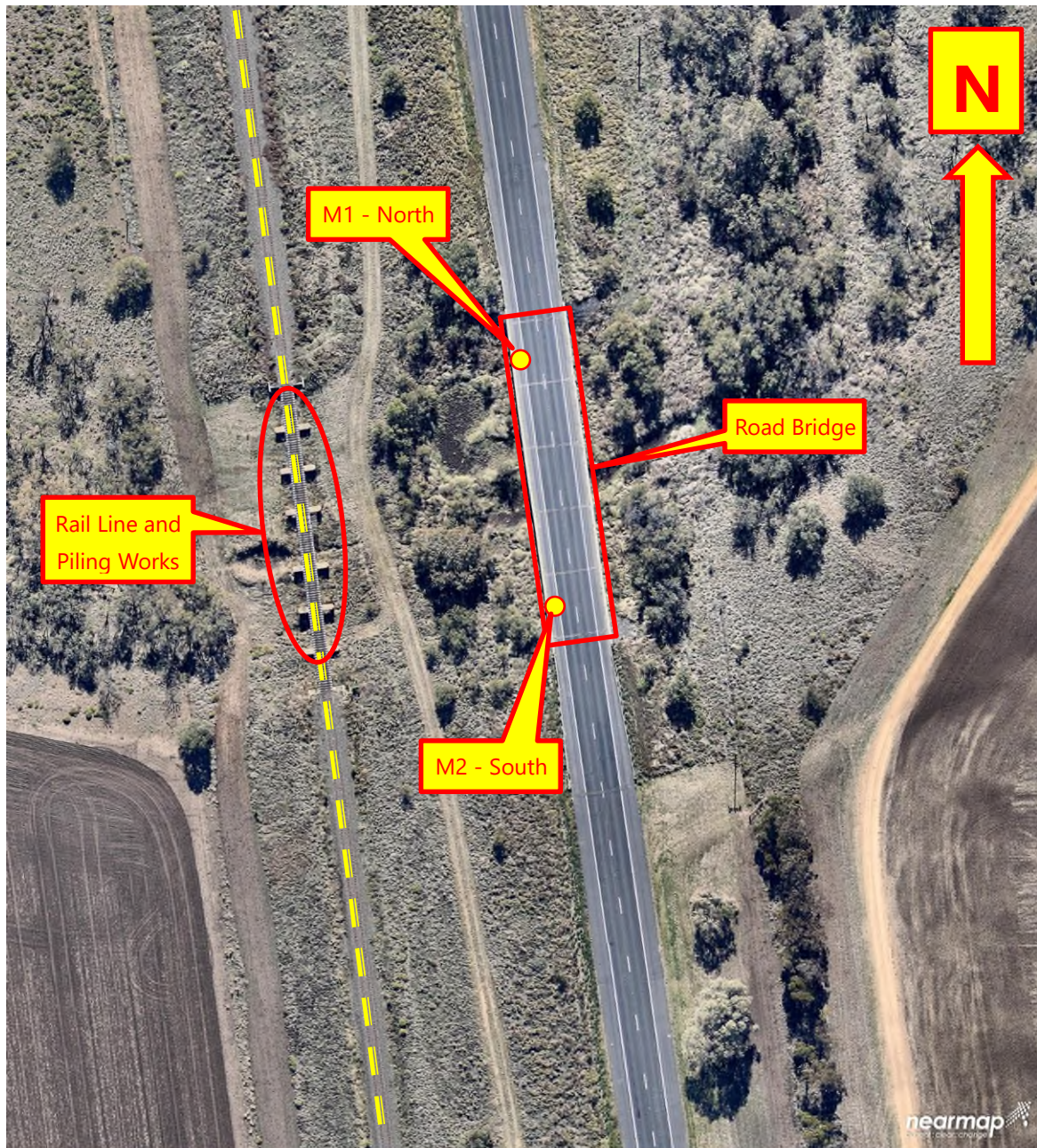
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APPENDIX A Vibration monitoring locations



Imagery: Nearmap, 2022

Attachment K: Bobbiwaa Creek Bridge Piling - TM815-04F01 Bobbiwaa Creek vibration monitoring (r1), dated 29/7/2022

29 July 2022

TM815-04F01 Bobbiwa Creek vibration monitoring (r1).docx

Trans4m Rail Joint Venture

Adam Playne

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From: Andy Ngo [Andy.Ngo@renzotonin.com.au]

Narrabri To North Star (N2NS) Inland Rail - Bobbiwa Vibration Monitoring Report

1 Introduction

Renzo Tonin & Associates was engaged by Trans4m Rail to conduct vibration monitoring during impact piling works for the road bridge at Bobbiwa Creek for Narrabri to North Star Inland Rail project. The location of these works is shown in APPENDIX A. The vibration monitoring was undertaken to monitor potentially affected structures. This report provides a summary of the monitoring results.

2 Vibration monitoring details

Two unattended vibration monitors were installed at Bobbiwa Creek to monitoring for the period between 17th June and 29th June 2022. Vibration monitors were installed at the north and south ends at the base of the road bridge to monitor the bridge structure throughout the vibration intensive impact piling works.

Table 1 below presents the instrumentation used and monitoring locations. Refer to Appendix A of this report for an aerial photograph indicating monitoring locations.

Table 1 - Equipment and Measurement Details

Monitoring ID	Equipment	Assessment point (Refer to Appendix A)	Date	Vibration intensive equipment in use monitored	Approx. distance to Plant
M1	Sigicom C12 – S/N 70190	North end of bridge.	17 th June 2022 and 29 th June 2022	Impact pile driver	35
M2	Sigicom C22 – S/N 102479	South end of bridge.	17 th June 2022 and 29 th June 2022	Impact pile driver	35

3 Vibration monitoring results

The established vibration criteria for cosmetic damage in the Narrabri to North Star Construction Noise and Vibration Management Sub-Plan (CNVMP) (T4MR Ref: 7632-T4MR-PL-PES-001-04, Rev 1, dated 18/8/2021) for the affected receiver types are shown in Table 2 below.

Table 2 - Transient vibration guide values - minimal risk of cosmetic damage (BS 7385) - peak component particle velocity (PPV), mm/s

LINE	TYPE OF STRUCTURE	FREQUENCY RANGE 4 TO 15 HZ	FREQUENCY RANGE 15 TO 40 HZ	FREQUENCY RANGE 40 HZ AND ABOVE
1	Reinforced or framed structures. Industrial and heavy commercial buildings.	50mm/s	50mm/s	50mm/s
2	Unreinforced or light framed structures. Residential or light commercial type buildings.	15mm/s at 4Hz, increasing to 20mm/s at 15Hz	20mm/s at 15Hz, increasing to 50mm/s at 40Hz	50mm/s

In this case, the road bridge is considered a reinforced structure, and as such this vibration limit was adopted in consultation with project personnel to manage the works.

As per the CNVMP, impact piling activities are considered to have the potential to cause dynamic loading in some structures. The British Standard 7385 states that for these cases, the guide values provided in Table 2 may be reduced by up to 50%. On this basis, a conservative vibration damage screening level for the Bobbiwa Creek road bridge has been taken as 25mm/s.

The overall results of the unattended vibration monitoring at the two locations are presented in Figure 1 and 2 below.

Figure 1 - Unattended vibration monitoring results at location M1 – North (PPV, mm/s)

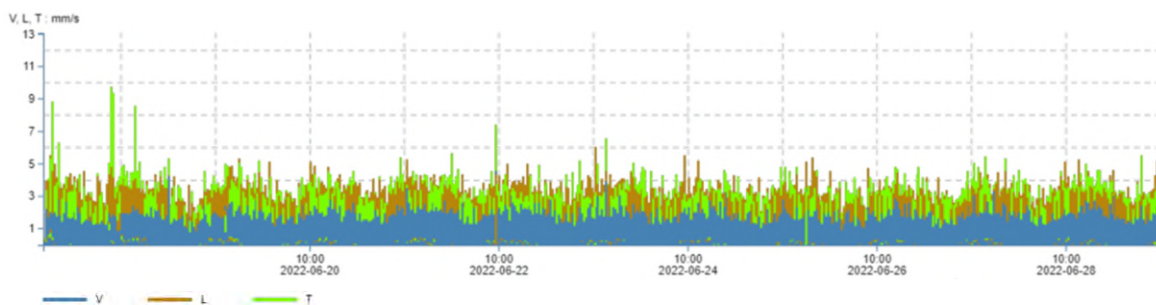
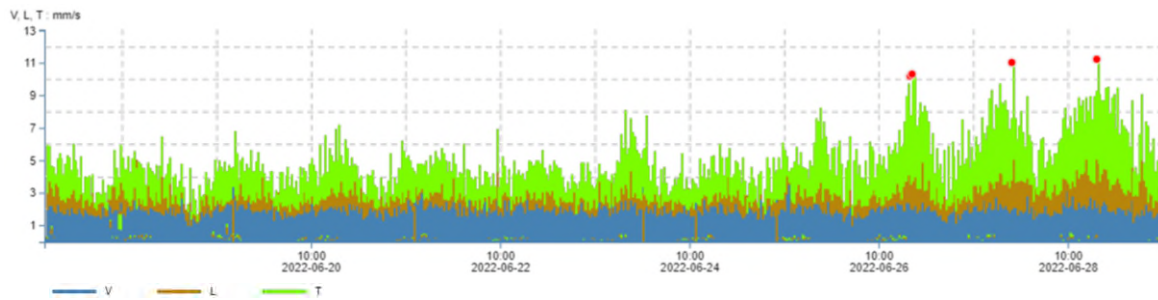


Figure 2 - Unattended vibration monitoring results at location M2 - South (PPV, mm/s)



The red dots shown in Figure 2 represent the transient measurements which allow the wave form to be recorded. The trigger for transient measurements were set at 10mm/s substantially below the vibration criteria.

Based on the measured vibration data, the vibration levels produced from the piling works were below the nominated criteria of 25mm/s which was not exceeded throughout the monitoring period.

Appendix B of this report presents the daily breakdown of the vibration monitoring.

4 Conclusion

Renzo Tonin and Associates have completed vibration monitoring during impact piling works for the road bridge at Bobbiwa Creek. The results of the unattended vibration monitoring indicated that works did not exceed the established vibration criteria throughout the monitoring period.

Document control

Date	Revision history	Non-issued revision	Issued revision	Prepared	Instructed	Reviewed / Authorised
29.07.2022	Initial issue	0	1	A. Ngo	A. Leslie	A. Leslie

File Path: R:\AssocSydProjects\TL801-TL850\TL815 ale Narrabri to North Star N2NS\1 Docs\Task 4 Bobbiwa\TM815-04F01 Bobbiwa Creek vibration monitoring (r1).docx

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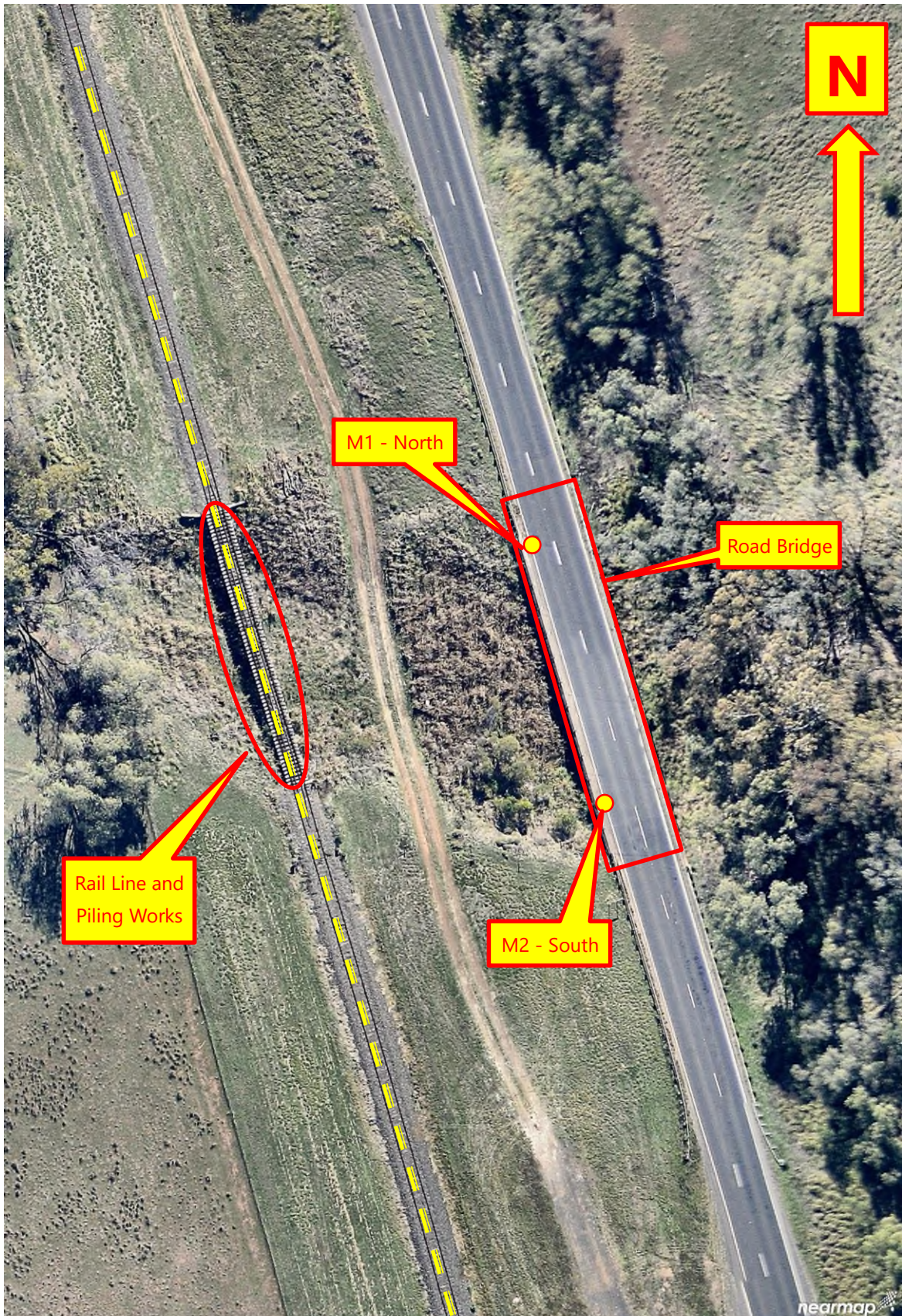
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APPENDIX A **Vibration monitoring locations**



Imagery: Nearmap, 2022

Attachment L: Bellata Vibration Monitoring Report – TM815-05D01 Bellata Station Vibration Monitoring (r1), dated 08/12/2022

8 December 2022

TM815-05D01 Bellata Station vibration monitoring (r1)

Trans4m Rail Joint Venture

Adam Playne

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From: Angus Hannelly [Angus.Hannelly@renzotonin.com.au]

Narrabri To North Star (N2NS) Inland Rail - Bellata Vibration Monitoring Report

1 Introduction

Renzo Tonin & Associates was engaged by Trans4m Rail to conduct vibration monitoring during track construction works at Bellata Station for Narrabri to North Star Inland Rail project. The vibration monitoring was undertaken to monitor and assist with vibration impact management of potentially affected structures. This report provides a summary of the monitoring results.

2 Vibration monitoring details

Both attended and unattended monitoring were undertaken at Bellata Station.

Attended monitoring was undertaken during excavation works to determine the likely vibration levels on the station platform when works were occurring in close proximity.

For compaction works adjacent to the station platform, it is understood that a post dilapidation inspection would be undertaken, with comparison then made to the pre-construction dilapidation survey, in order to manage vibration impacts along the station platform, as vibratory roller compaction works were required.

Long term unattended monitoring was undertaken for the Bellata Station's Communication Building and Bellata Grain Reveal Facility during the vibration intensive periods of works. Unattended monitors with alerts were installed to assist within management of vibration levels generated from the construction works.

2.1 Attended monitoring

Attended vibration monitoring was conducted on 28th July 2022. The vibration monitor was mounted on the edge of the station platform during excavation works, which then were undertaken in close proximity to the monitoring location representative of the likely excavation works.

2.2 Unattended monitoring

Two unattended vibration monitors were installed at Bellata Station and monitored for the period between 28th July and 18th November 2022. Vibration monitors were installed either side of the train line, one at the Bellata Station's Communication Building and another on the Bellata Grain Reveal Facility side of the tracks to monitor the vibration levels potentially impacting these structures throughout the duration of the construction works.

Table 1 below presents the instrumentation used and monitoring locations. Photos indicating vibration monitoring locations are included in APPENDIX A.

Table 1 - Equipment and measurement details

Monitoring ID	Equipment	Assessment point (Refer to APPENDIX A)	Date	Vibration intensive equipment in use by the project during monitoring period	Approx. distance to nearest point on tracks
M1 (Appendix A.1)	Sigicom C12 – S/N: #61870	Bellata Grain Reveal Facility	20 th July 2022 and 18 th November 2022	Vibratory roller, excavator with bucket attachment, rail tamper	10-15m
M2 (Appendix A.2)	Sigicom C22 – S/N: #102478	Bellata Station Communication Building	20 th July 2022 and 18 th November 2022	Vibratory roller, excavator with bucket attachment, rail tamper	5-10m

The vibration criteria for cosmetic damage for the project is detailed in the Narrabri to North Star Construction Noise and Vibration Management Sub-Plan (CNVMP) (T4MR Ref: 7632-T4MR-PL-PES-001-04, Rev 1, dated 18/8/2021). Consistent with the CNVMP, appropriate vibration criteria were adopted to manage the construction vibration from the works based upon consideration of the sensitivity of the potentially affected sensitive structures.

3 Vibration monitoring results

3.1 Bellata Rail Station

Based on information provided within the Dilapidation report for the Bellata Rail Station (Ref: 22-57-Bellata Rail Station, SMK Consultants, survey date 4th March 2022), the key structures that make up the Bellata Rail Station are a concrete waiting area and shelter, signalling/control/ communication shed,

overhead lighting, safety fencing, and a ramp between the adjoining public carpark area and the station platform.

Even though the station is noted as heritage, the station structures were identified as sound. The rail platform and foundations were classified as heavy commercial structures, while the shelter and adjoining infrastructure, including the communication building adjacent were classified as light commercial type buildings. The rail station shelter and light poles were constructed of materials considered to be sufficiently flexible to withstand vibrations.

It was confirmed with ARTC that the Communication Building contains no signalling equipment and only a public announcement system.

3.1.1 Station Platform – attended monitoring

The established vibration criteria for cosmetic damage for the platform was established as 25mm/s PPV based upon a heavy commercial structure.

Attended trial vibration measurements were undertaken on the station platform to confirm the expected site-specific vibration levels at various distances from the vibration intensive works in the rail corridor from excavation activities. The outcomes of this trial were as follows:

- When the operator conducted a typical excavation activity at 1m away from the monitoring location, the excavator with bucket attachment produced vibration levels around 0.5mm/s PPV on the platform.
- When the operator slammed the bucket attachment into the ground at 1m away from the monitoring location (assessing worst case scenario), the excavator with bucket attachment produced vibration levels around 2mm/s PPV on the platform.
- Based on the vibration monitoring results above, the excavator with bucket attachment produced vibration levels substantially lower than the established vibration limit of 25mm/s.

Therefore, further vibration monitoring of the excavation works was not recommended. However, a vibration monitor was installed in front of the Communication building on the platform concrete slab to monitor for the duration of the construction works at the more sensitive receiver location on the platform. This monitor measured during the entire excavation works and future vibratory rolling works (managing vibration levels for both the station platform and the Communication building).

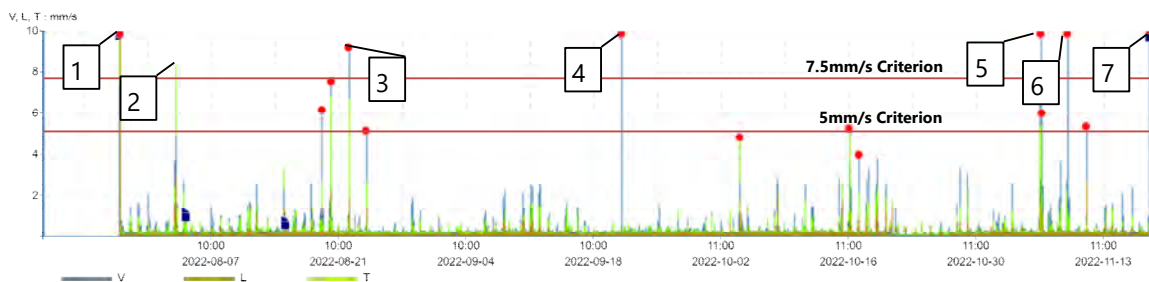
3.1.2 Bellata Station – Communication Building – unattended monitoring

Based upon the dilapidation report, the building was be classified as a light commercial structure for the purpose of setting vibration management limits. The established vibration criteria for cosmetic damage for the Bellata Station Communication building are given below:

- Stop works trigger has been set to 7.5mm/s PPV.
- Amber trigger has been set to 5mm/s PPV.

The results of the unattended vibration monitoring are presented in Figure 2 below.

Figure 1 - Unattended vibration monitoring results at location M2 (PPV, mm/s)



The discussion of the M2 vibration monitoring results is summarised in Table 3-2.

Table 3-2: Bellata Communication Building vibration monitoring summary

Exceedance ID	Date and Time	Cause of exceedance
1	28.07.2022 07:33am	At this time, the vibration monitor was mounted to the ground. The exceedance was caused by the RTA engineer setting up the vibration monitor. As a result, the exceedance deemed not related to the construction works.
2	03.08.2022 11:45am	The vibration monitor recorded an instantaneous vibration level over 7.5mm/s. It is noted that during the time of exceedance, it was confirmed that no compaction works were occurring. An extraneous event such as a worker inadvertently nudging the monitor was likely the cause of the exceedance. The exceedance was deemed not related to the construction works.
3	22.08.2022 11:39pm	The vibration monitor recorded an instantaneous vibration level over 7.5mm/s. It is noted that during the time of exceedance, it was confirmed that a roller was tracking past the platform and not conducting any construction works. An extraneous event such as a worker inadvertently nudging the monitor was likely the cause of the exceedance. As a result, the exceedance was deemed not related to the construction works.
4	21.09.2022 09:19am	An RTA engineer was replacing the batteries of the vibration monitor at this time. The exceedance was caused by the RTA engineer replacing the batteries of the vibration monitor. As a result, the exceedance was deemed not related to the construction works.
5	06.11.2022 11:56am	The vibration monitor recorded an instantaneous vibration level over 7.5mm/s. Given that the exceedance is not characteristic of the construction works taking place, an extraneous event such as a worker inadvertently nudging the monitor was likely the cause of the exceedance.
6	09.11.2022 10:17am	The vibration monitor recorded an instantaneous vibration level over 7.5mm/s. Given that the exceedance is not characteristic of the construction works taking place, an extraneous event such as a worker inadvertently nudging the monitor was likely the cause of the exceedance.
7	18.11.2022 10:39am	At this time, the vibration monitor was retrieved from the ground at the end of monitoring. Construction works have finished at the time of exceedance. As a result, the exceedance was deemed not related to the construction works.

It can be seen in Figure 1 that the vibration levels produced from the construction works were typically below 7.5 mm/s. Note that there were events that resulted in an instantaneous vibration level of above 7.5 mm/s which have been deemed not characteristic of the construction works taking place or deemed not related to the construction works.

3.2 Bellata Station – Bellata Grain Receival Facility – unattended monitoring

Based on information provided within the Dilapidation report for the GrainCorp Bellata facility (Ref: 22-57- GrainCorp Bellata, SMK Consultants, survey date 4th and 5th March 2022), the key structures that make up the GrainCorp Bellata facility include concrete silos, grain pits and out-loading equipment, concrete bulk grain shed, switch/electrical room, and a large bulk shed. All of the grain storages have extensive concrete foundations and aprons.

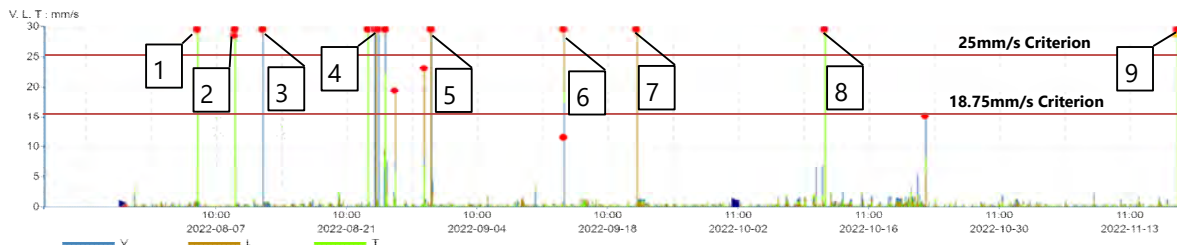
It was noted that the critical issue was the preservation of the outer concrete drainage system around the silos. As such, monitoring was undertaken in proximity to the drainage system nearby to the works.

The established vibration criteria for cosmetic damage for the affected receiver type are given below:

- Stop works trigger has been set to 25mm/s PPV.
- Amber trigger has been set to 18.75mm/s PPV.

The results of the unattended vibration monitoring are presented in Figure 1 below.

Figure 2 - Unattended vibration monitoring results at location M1 (PPV, mm/s)



The discussion of the M1 vibration monitoring results is summarised in .

Table 3-1: Bellata Grain Receival Facility vibration monitoring summary

Exceedance ID	Date and Time	Cause of exceedance
1	05.08.2022 10:08am	The vibration monitor recorded an instantaneous vibration level over 25mm/s. It was confirmed with project personnel that at the time of exceedance no construction works occurring on the Bellata Grain Receival Facility side. An extraneous event such as a worker inadvertently nudging the monitor was likely the cause of the exceedance. The exceedance was deemed not related to the construction works.

Exceedance ID	Date and Time	Cause of exceedance
2	09.08.2022 08:46am	The vibration monitor recorded an instantaneous vibration level over 25mm/s. It was confirmed with project personnel that at the time of exceedance no construction works occurring. However, it can be noted that GrainCorp personnel were seen undertaking construction works near to the monitor, including using a concrete saw adjacent to the monitor. As a result, the exceedance was deemed not related to the construction works and was likely caused by GrainCorp construction works.
3	12.08.2022 07:59am	The vibration monitor recorded an instantaneous vibration level over 25mm/s. Given that the exceedance is not characteristic of the construction works taking place, an extraneous event such as a worker inadvertently nudging the monitor was likely the cause of the exceedance. As a result, the exceedance was deemed not related to the construction works.
4	23.08.2022 03:15pm - 24.08.2022 09:04am	The vibration monitor recorded an instantaneous vibration level over 25mm/s. It was confirmed with project personnel that no construction works were occurring. However, it can be noted that GrainCorp personnel were observed drilling adjacent to the monitor. As a result, the exceedance was deemed not related to the construction works and were likely caused by GrainCorp construction works.
5	30.08.2022 09:40am	The vibration monitor recorded an instantaneous vibration level over 25mm/s Given that the exceedance is not characteristic of the construction works taking place, an extraneous event such as a worker inadvertently nudging the monitor was likely the cause of the exceedance. As a result, the exceedance was deemed not related to the construction works.
6	13.09.2022 02:33pm	The vibration monitor recorded an instantaneous vibration level over 25mm/s. Given that the exceedance is not characteristic of the construction works taking place, an extraneous event such as a worker inadvertently nudging the monitor was likely the cause of the exceedance. As a result, the exceedance was deemed not related to the construction works.
7	21.09.2022 07:50am	An RTA engineer was replacing the batteries of the vibration monitor at this time. The exceedance was caused by the RTA engineer replacing the batteries of the vibration monitor. As a result, the exceedance was deemed not related to the construction works.
8	11.10.2022 04:25pm	The vibration monitor recorded an instantaneous vibration level over 25mm/s. It is noted that during the time of exceedance, it was confirmed that no construction works were occurring in close proximity to the silos. As a result, the exceedance was deemed not related to the construction works and was likely caused by an extraneous event such as a worker inadvertently nudging the monitor.
9	18.11.2022 11:18am	At this time, the vibration monitor was retrieved from the ground at the end of monitoring. Construction works have finished at the time of exceedance. As a result, the exceedance was deemed not related to the construction works.

It can be seen in that the vibration levels produced from the construction works were typically below 25 mm/s. Note that there were events that resulted in an instantaneous vibration level of above 25 mm/s which have been deemed not characteristic of the construction works taking place or deemed not related to the construction works .

4 Conclusion

Renzo Tonin and Associates undertook vibration monitoring during the construction works at Bellata Station. Attended trial vibration measurements were used to manage potential impacts from excavation of the Bellata Station Platform.

Unattended monitoring was undertaken throughout the construction works to manage impacts on Bellata Station Platform structures and the Bellata Grain Receiving Facility. The results of the unattended vibration monitoring were typically below the established vibration screening criteria. There were events

that resulted in an instantaneous vibration level of above the vibration screening criteria which have been deemed not characteristic of the construction works taking place or deemed not related to the construction works following further investigation.

Document control

Date	Revision history	Non-issued revision	Issued revision	Prepared	Instructed	Reviewed / Authorised
08.12.2022	Initial issue	0	1	A. Hannelly	R. Zhafranata	A. Leslie

File Path: R:\AssocSydProjects\TL801-TL850\TL815 ale Narrabri to North Star N2NS\1 Docs\Task 5 Bellata Station\TM815-05D01 Bellata Station vibration monitoring (r1).docx

Important Disclaimers:

The work presented in this document was carried out in accordance with the Renzo Tonin & Associates Quality Assurance System, which is based on Australian/New Zealand Standard AS/NZS ISO 9001.

This document is issued subject to review and authorisation by the suitably qualified and experienced person named in the last column above. If no name appears, this document shall be considered as preliminary or draft only and no reliance shall be placed upon it other than for information to be verified later.

This document is prepared for the particular requirements of our Client referred to above in the 'Document details' which are based on a specific brief with limitations as agreed to with the Client. It is not intended for and should not be relied upon by a third party and no responsibility is undertaken to any third party without prior consent provided by Renzo Tonin & Associates. The information herein should not be reproduced, presented or reviewed except in full. Prior to passing on to a third party, the Client is to fully inform the third party of the specific brief and limitations associated with the commission.

In preparing this report, we have relied upon, and presumed accurate, any information (or confirmation of the absence thereof) provided by the Client and/or from other sources. Except as otherwise stated in the report, we have not attempted to verify the accuracy or completeness of any such information. If the information is subsequently determined to be false, inaccurate or incomplete then it is possible that our observations and conclusions as expressed in this report may change.

We have derived data in this report from information sourced from the Client (if any) and/or available in the public domain at the time or times outlined in this report. The passage of time, manifestation of latent conditions or impacts of future events may require further examination and re-evaluation of the data, findings, observations and conclusions expressed in this report.

We have prepared this report in accordance with the usual care and thoroughness of the consulting profession, for the sole purpose described above and by reference to applicable standards, guidelines, procedures and practices at the date of issue of this report. For the reasons outlined above, however, no other warranty or guarantee, whether expressed or implied, is made as to the data, observations and findings expressed in this report, to the extent permitted by law.

The information contained herein is for the purpose of acoustics only. No claims are made and no liability is accepted in respect of design and construction issues falling outside of the specialist field of acoustics engineering including and not limited to structural integrity, fire rating, architectural buildability and fit-for-purpose, waterproofing and the like. Supplementary professional advice should be sought in respect of these issues.

External cladding disclaimer: No claims are made and no liability is accepted in respect of any external wall and/or roof systems (eg facade / cladding materials, insulation etc) that are: (a) not compliant with or do not conform to any relevant non-acoustic legislation, regulation, standard, instructions or Building Codes; or (b) installed, applied, specified or utilised in such a manner that is not compliant with or does not conform to any relevant non-acoustic legislation, regulation, standard, instructions or Building Codes.

APPENDIX A Vibration monitoring locations

A.1 Bellata Station (Silo side) - Vibration monitoring location and equipment setup



A.2 Bellata Station (Communication Building side) - Vibration monitoring location and equipment setup




A.3 Bellata Station (Aerial Imagery) - Vibration monitoring locations



Attachment M: Traffic Inspection Records

E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	Korina Nikaini	Signature:	
TMP Reference:	Newell Hwy/N2NS	TGS Reference:	
Date:	17-5-2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	TGS = GATE 2 = 29671REV3 GATE 6 = 29758 GATE 7 = 30210 *BOBBIWAA = 29852REV2 * 10 MILE CREEK 28288		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed? <i>If no provide details and rectify signs</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes? <i>If no provide details and rectify signs</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated? <i>If no provide details of action required to rectify delineation</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated? <i>If no provide details and rectify location</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	- Gate 3 BOBBINAWA CREEK - Gate 2 RAS BOARD
Are temporary speed zones operating as prescribed? <i>If no provide details and discuss with work supervisor</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	BORN SPEED REDUCTION = ESTOP SETUP BORN SPEED REDUCTION
Are PTCD positioned as prescribed in TGS? <i>If no provide details of action required to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	= BOBBINAWA CREEK = 10 MILK CREEK

Site Inspection	
Are manual traffic controllers clear of travel lane, have suitable escape route? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	
Are site accesses and egresses well defined and safe for work vehicles? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	<p style="color: blue; font-family: cursive;"> - LEFT IN ALL VEHICLES - LEFT OUT HEAVY VEHICLES. </p>
Termination signs are suitably located? i.e. D downstream of last activity. <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	

Post site inspection confirmation	
Is worksite layout operating safely as intended?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and implement controls to rectify</i>	
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and implement controls to rectify</i>	
Comments or details of action taken:	
Have key TTM risks been addressed on site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details of additional hazards and controls required</i>	
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<i>If no provide details and discuss with nominated rep completing Shift Inspections</i>	
Comments or details of action taken:	

Additional comments:

GATE 6 = CLOSED LAST 3 DAY'S DUE TO SITE BEING TO WET & WEATHER.

GATE 6 = CLOSED LAST 3 DAY'S DUE TO WEATHER.

GATE 2 = CLOSED 13-5-22, REOPENED 14-5-22


BOBBIHARA = CLOSED TILL 17-5-22

15-5-22 = GATE 7 OPEN & GATE 2.
16-5-22 = GATE 2-6-7 OPEN
- BOBBINAA OPEN -
17-5-22 = BOBBINAA CREEK BRIDGE
- 10 MILE CREEK BRIDGE
- GATE 2-6-7
- LX 3059 .

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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	KORINA WIKARRE	Signature:	
TMP Reference:	NEWELL HWY/NZNS	TGS Reference:	
Date:		Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	BOBBIWAA = 29852 REV2 GATE 2-6-7 = 29671 REV3 - 30210-29758 FARRE RD - 2021-0685 GATE 13 - 2021-0685 XING CROSSING - 2021-0685		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <div style="text-align: right; font-size: small; margin-top: 5px;"><i>If no provide details and rectify signs</i></div>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <div style="text-align: right; font-size: small; margin-top: 5px;"><i>If no provide details and rectify signs</i></div>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<div style="text-align: right;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div> <div style="text-align: right; font-size: small; margin-top: 5px;"><i>If no provide details of action required to rectify delineation</i></div>
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <div style="text-align: right; font-size: small; margin-top: 5px;"><i>If no provide details and rectify location</i></div>
Comments or details of action taken:	RAS BOARDS AT GATE 2
Are temporary speed zones operating as prescribed?	<div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <div style="text-align: right; font-size: small; margin-top: 5px;"><i>If no provide details and discuss with work supervisor</i></div>
Comments or details of action taken:	GATE 2-6-7 80KM SPEED REDUCTIONS
Are PTCD positioned as prescribed in TGS?	<div style="text-align: right;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div> <div style="text-align: right; font-size: small; margin-top: 5px;"><i>If no provide details of action required to rectify</i></div>
Comments or details of action taken:	NO PTCD USED AT THIS TIME.

Site Inspection	
Are manual traffic controllers clear of travel lane, have suitable escape route? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	
Are site accesses and egresses well defined and safe for work vehicles? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	
Termination signs are suitably located? i.e. D downstream of last activity. <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	

Post site inspection confirmation	
Is worksite layout operating safely as intended?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	
Have key TTM risks been addressed on site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of additional hazards and controls required</i>
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>
Comments or details of action taken:	

Additional comments:

19-5-22 BOBBIWAI CREEK
- GATE 2-6-7
- TARLETT ROAD
- GATE 13


20-5-22 = GATE 2-6-7
- LX544 - GALATHINA LANE
- LY552 - PENNY'S ROAD
- LX546 - TEN MILE LANE

21-5-22 - GATE 2-6-7
- LY550
- RX552

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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	KERINA NIKMAJE	Signature:	
TMP Reference:	Stage 1 NEWELL HWY	TGS Reference:	
Date:	28-5-2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	GATE 2 - 29671REV3 GATE 6 - 29758 GATE 7 - 30210 PENNY'S ROAD MILLIE ROAD OLD NEWELL HWY ROAD } 2021-0685		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	
Are PTCD positioned as prescribed in TGS?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	NOT IN USE

Site Inspection	
Are manual traffic controllers clear of travel lane, have suitable escape route? <i>If no provide details of action required to rectify</i>	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Are site accesses and egresses well defined and safe for work vehicles? <i>If no provide details of action required to rectify</i>	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Termination signs are suitably located? i.e. D downstream of last activity. <i>If no provide details of action required to rectify</i>	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	

Post site inspection confirmation	
Is worksite layout operating safely as intended?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	
Have key TTM risks been addressed on site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of additional hazards and controls required</i>
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>
Comments or details of action taken:	

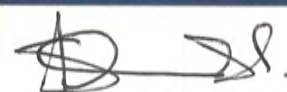
Additional comments:

23-05-2022 = GATE 2-6-7
24-05-2022 - MILLIE RD
- PENNING RD
- OLD NENNA HWY RD
- GATE 2-6-7
25-05-2022 - GATE 2-6-7
- PENNING RD
- MILLIE RD
- TAREE RD
26-05-2022 - GATE 6

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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

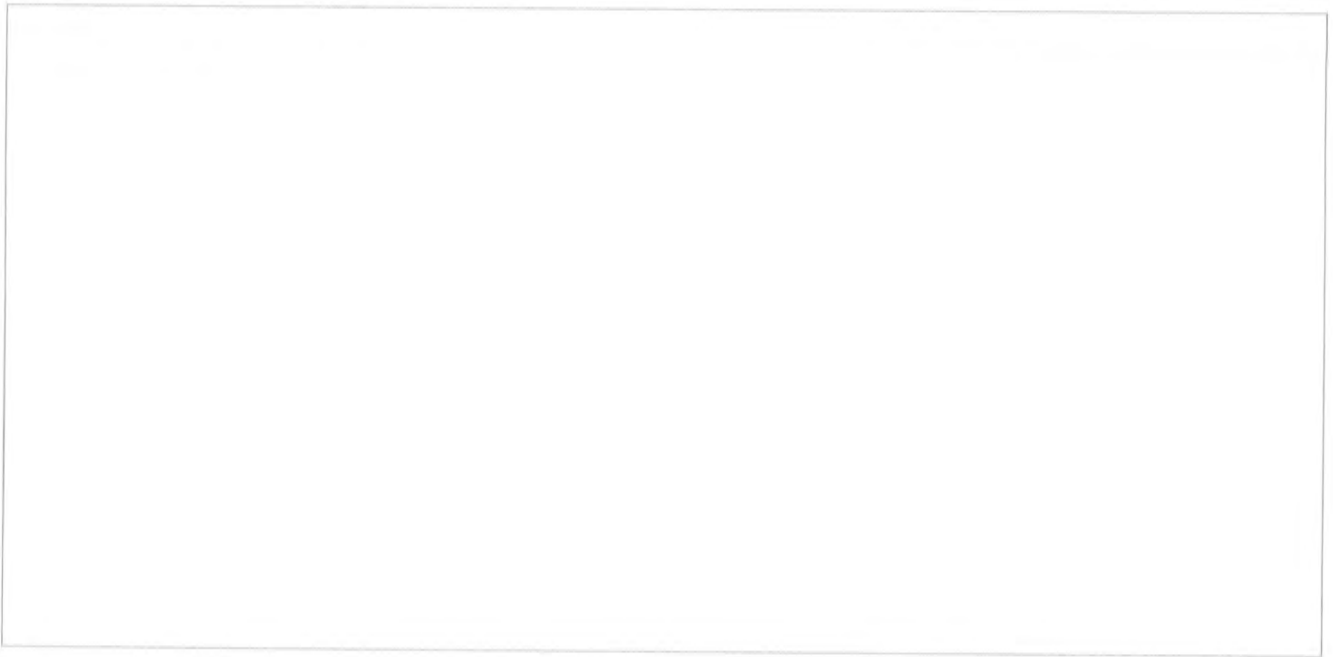
Completed by:			
Name:	Stew McDonald	Signature:	
TMP Reference:	Stage 1 N2NS	TGS Reference:	29671/Rev 3, 29852/Rev 2 29758 30210
Date:	31 30 /5/22 : 14:30	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	Stage 1 : N2NS 29671/Rev 3, 29852/Rev 2 29758, 30210		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	
Are PTCD positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	

Post site inspection confirmation	
Is worksite layout operating safely as intended?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	
Have key TTM risks been addressed on site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of additional hazards and controls required</i>
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>
Comments or details of action taken:	


Additional comments:



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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

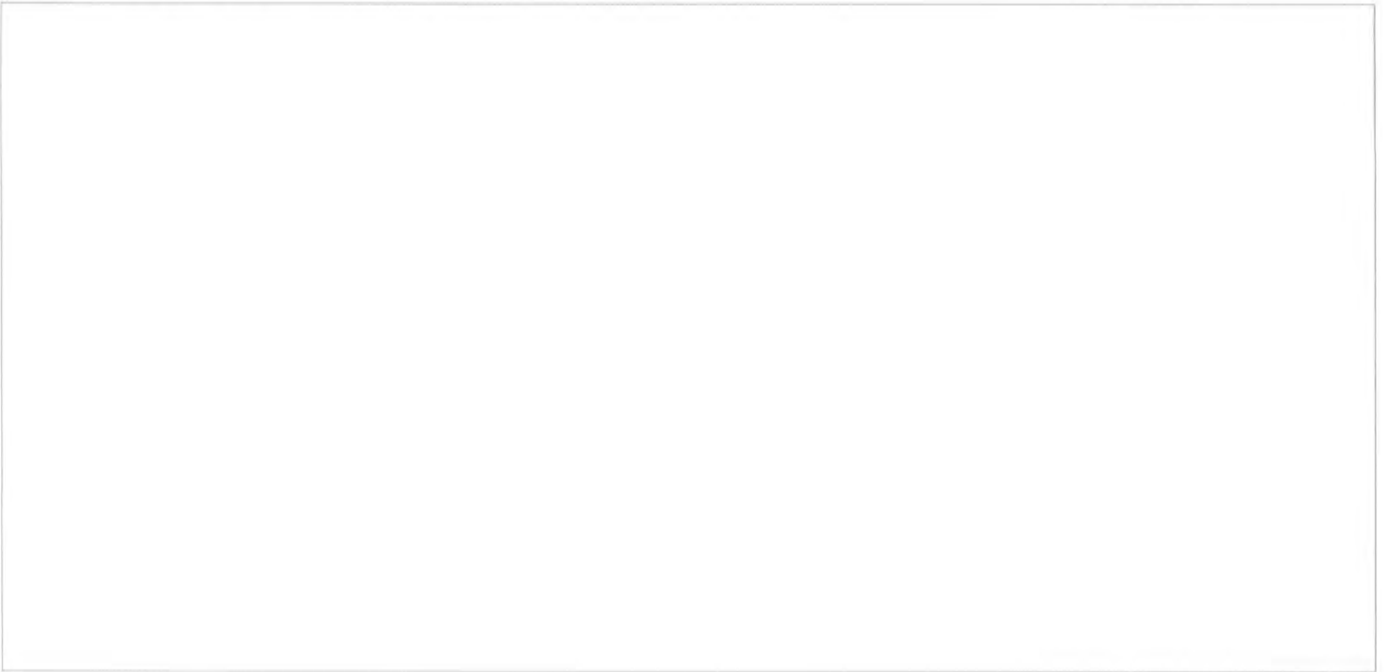
Completed by:			
Name:	ZACHARY WAUGH	Signature:	
TMP Reference:	STAGE 1 - N2NS	TGS Reference:	29671, 28239, 28288
Date:	8/6/22 time 0700	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	Stage 1 - N2NS 29671, 28239, 28288		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	N/A
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	
Are PTCD positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	

Post site inspection confirmation	
<p>Is worksite layout operating safely as intended?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Has TMP identified and addressed key TTM risks?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have key TTM risks been addressed on site?</p> <p style="text-align: right;"><i>If no provide details of additional hazards and controls required</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have copies of Shift Inspections been sighted as completed as required?</p> <p style="text-align: right;"><i>If no provide details and discuss with nominated rep completing Shift Inspections</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<p>Comments or details of action taken:</p>	


Additional comments:



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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	ZACHARY WAUGH	Signature:	
TMP Reference:	Stage 1 - NZUS	TGS Reference:	29671, 28239, 28288.
Date:	19/6/22.	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available? <i>If no inspection must not be undertaken until documents are obtained</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Details of TMP and TGS:			
Are the location TMP and relevant TGS approved? <i>If no, work must be stopped until documents are approved</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:			
Site Inspection			
Inspection completed:		<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night	
Signs and devices positioned as prescribed and commanding attention? <i>If no provide details and rectify signs</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	N/A.
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	
Are PTCB positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	

Post site inspection confirmation	
<p>Is worksite layout operating safely as intended?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Has TMP identified and addressed key TTM risks?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have key TTM risks been addressed on site?</p> <p style="text-align: right;"><i>If no provide details of additional hazards and controls required</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have copies of Shift Inspections been sighted as completed as required?</p> <p style="text-align: right;"><i>If no provide details and discuss with nominated rep completing Shift Inspections</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<p>Comments or details of action taken:</p>	


Additional comments:



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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	Stew McDonald.	Signature:	
TMP Reference:	STAGE 1 - N2NS.	TGS Reference:	29671 Rev 3, 30210 29758, 30212, 28288
Date:	27.6.22. /0728	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	Stage 1 - N2NS. 29671 Rev 3, 30210, 30212. 29758, 28288		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right;"><i>If no provide details and rectify signs</i></p>	
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right;"><i>If no provide details and rectify signs</i></p>	
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated? <div style="text-align: right;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div> <p style="text-align: right;"><i>If no provide details of action required to rectify delineation</i></p>	
Comments or details of action taken:	N/A.
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right;"><i>If no provide details and rectify location</i></p>	
Comments or details of action taken:	
Are temporary speed zones operating as prescribed? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right;"><i>If no provide details and discuss with work supervisor</i></p>	
Comments or details of action taken:	
Are PTCB positioned as prescribed in TGS? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	

Post site inspection confirmation	
Is worksite layout operating safely as intended? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have key TTM risks been addressed on site? <i>If no provide details of additional hazards and controls required</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required? <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments or details of action taken:	


Additional comments:

No issues observed during the week.

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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	KERINA WIKARIĆ	Signature:	
TMP Reference:	Stage 1 NEWELL HWY	TGS Reference:	
Date:	20-6-2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	GATE 2 - 29671REV3 GATE 6 - 29758 GATE 7 - 30210 PENNYS ROAD MILLIE ROAD OLD NEWELL HWY ROAD } 2021-0685		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i> </div>	
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i> </div>	
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated? <div style="text-align: right;"> <input type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i> </div>	
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i> </div>	
Comments or details of action taken:	
Are temporary speed zones operating as prescribed? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i> </div>	
Comments or details of action taken:	
Are PTCD positioned as prescribed in TGS? <div style="text-align: right;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no provide details of action required to rectify</i> </div>	
Comments or details of action taken:	NOT IN USE

Site Inspection	
Are manual traffic controllers clear of travel lane, have suitable escape route?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details of action required to rectify</i>	
Comments or details of action taken:	
Are site accesses and egresses well defined and safe for work vehicles?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details of action required to rectify</i>	
Comments or details of action taken:	
Termination signs are suitably located? i.e. D downstream of last activity.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details of action required to rectify</i>	
Comments or details of action taken:	

Post site inspection confirmation	
Is worksite layout operating safely as intended? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details and implement controls to rectify</i></p>	
Comments or details of action taken:	
Has TMP Identified and addressed key TTM risks? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details and implement controls to rectify</i></p>	
Comments or details of action taken:	
Have key TTM risks been addressed on site? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details of additional hazards and controls required</i></p>	
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required? <div style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A </div> <p style="text-align: right; font-size: small;"><i>If no provide details and discuss with nominated rep completing Shift Inspections</i></p>	
Comments or details of action taken:	


Additional comments:

23-05-2022 = Gate 2-6-7
24-05-2022 - MILLIE RD
 - PENNY RD
 - OLD NENEN HWY RD
 - GATE 2-6-7
25-05-2022 - GATE 2-6-7
 - PENNY RD
 - MILLIE RD
 - TAREE RD
26-05-2022 ↗ - GATE 6

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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

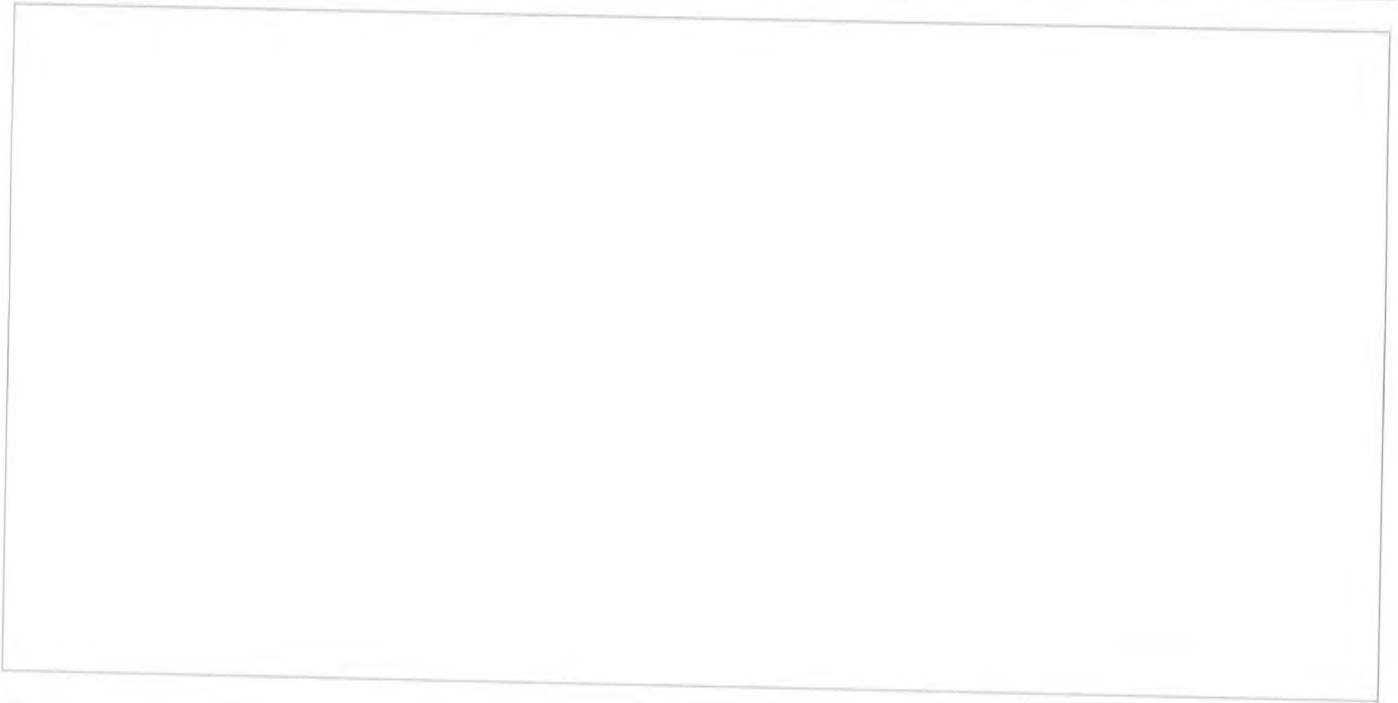
Completed by:			
Name:	Korina Wikarke	Signature:	
TMP Reference:	STAGE 1 N2NS	TGS Reference:	31139 - 30830 - 29852-RV2 30210 - 29873 - 29671-RV3
Date:	29-6-2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	STAGE 1 31139 - 30830 - 29852 RV2 - 30210 29873 - 29671 - RV3		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	- BOBBIWANA Creek Bridge - RAS BOARD'S GATE 2
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	
Are PTCD positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	- GATE 14 = ESTOPS - BOBBIWANA BRIDGE = ESTOPS. - GATE 6 = ESTOPS

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	

Post site inspection confirmation	
<p>Is worksite layout operating safely as intended?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Has TMP identified and addressed key TTM risks?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have key TTM risks been addressed on site?</p> <p style="text-align: right;"><i>If no provide details of additional hazards and controls required</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have copies of Shift Inspections been sighted as completed as required?</p> <p style="text-align: right;"><i>If no provide details and discuss with nominated rep completing Shift Inspections</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<p>Comments or details of action taken:</p>	


Additional comments:



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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

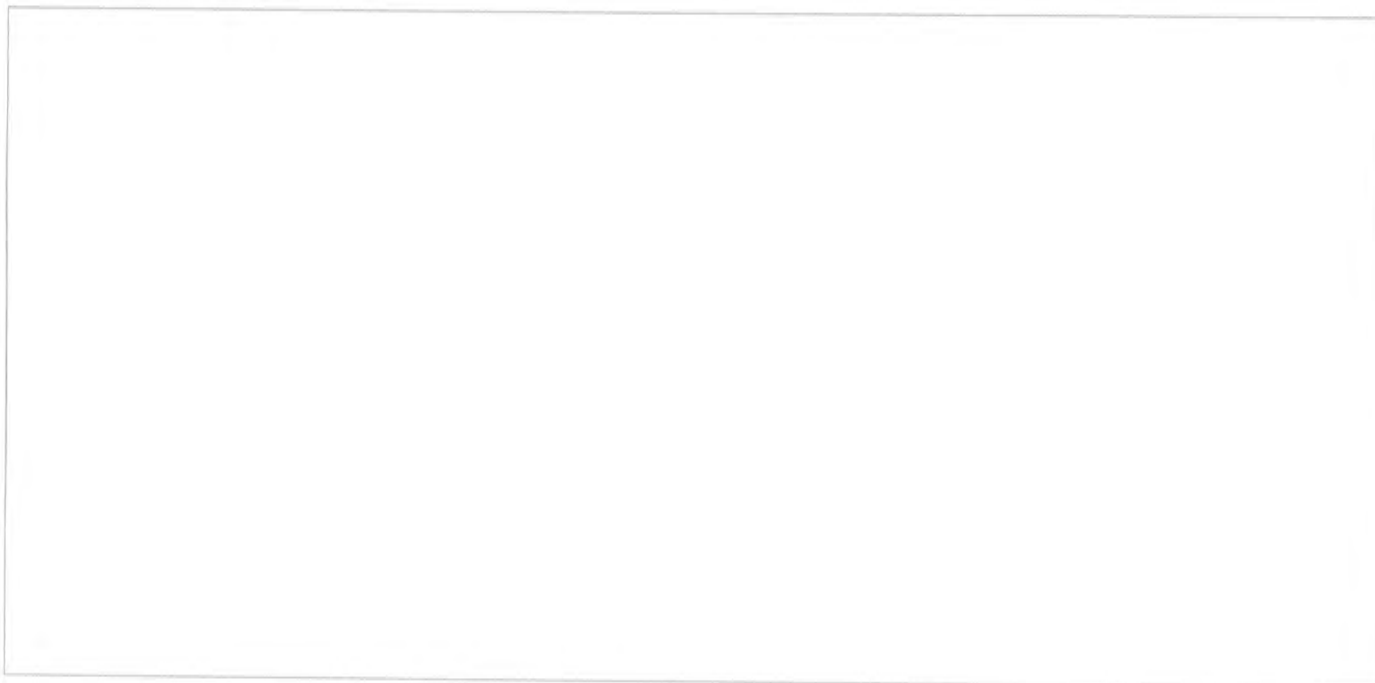
Completed by:			
Name:	KORINIA NIKANEK	Signature:	
TMP Reference:	STAGE 7 N2NS NENEIV HWY	TGS Reference:	29671 REV3 - 30210 28288 - 31139 - 30830
Date:	10-7-2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	STAGE 7 N2NS 29671 REV3 - 30210 - 28288 - 31139 - 30830		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	RAS Boards AT GATE 2
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	60RW - 80RW
Are PTCB positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Site Inspection	
	<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p> <p style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </p>
Comments or details of action taken:	
	<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p> <p style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </p>
Comments or details of action taken:	
	<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p> <p style="text-align: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </p>
Comments or details of action taken:	

Post site inspection confirmation	
Is worksite layout operating safely as intended? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have key TTM risks been addressed on site? <i>If no provide details of additional hazards and controls required</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required? <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments or details of action taken:	

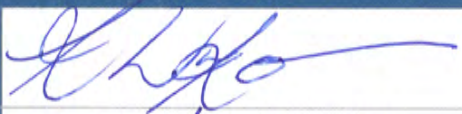
Additional comments:



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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

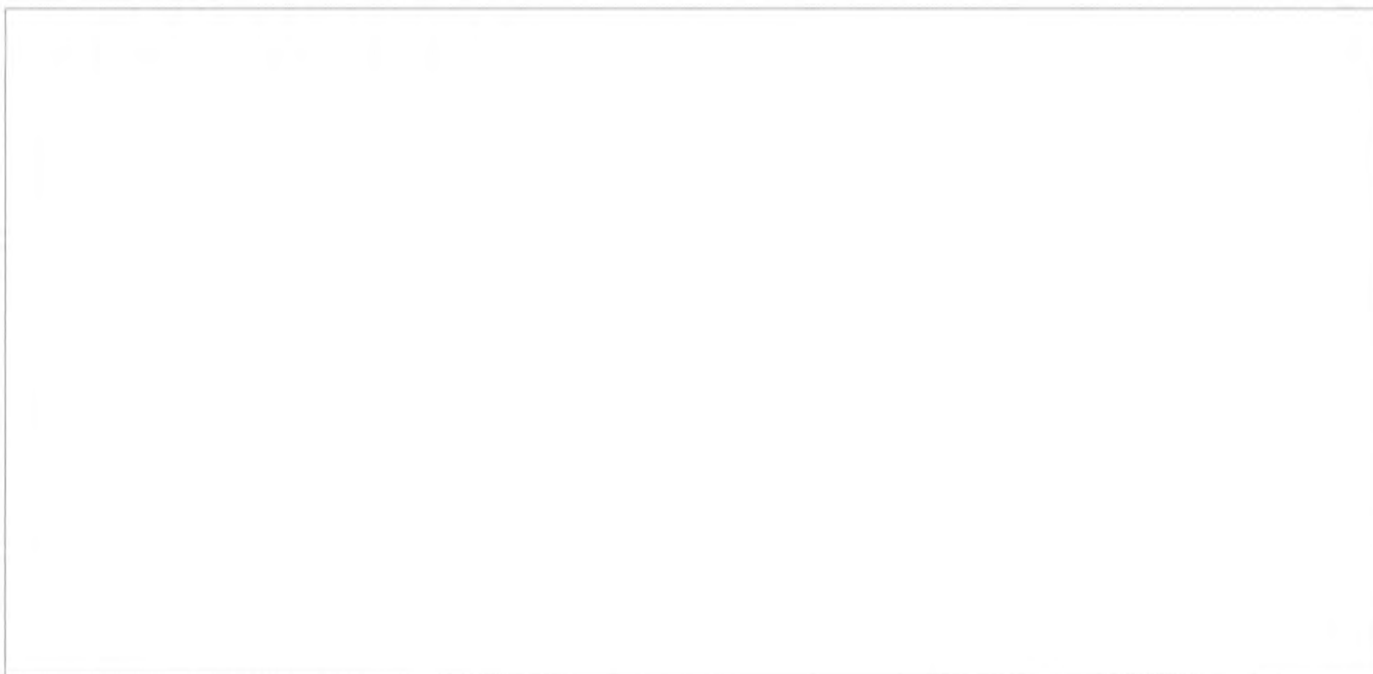
Completed by:			
Name:	KORINA WIKAIRE	Signature:	
TMP Reference:	STAGE 2 N2NS	TGS Reference:	N2NS / NEWELL HWY
Date:	17-7-2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	GATE 2 = 29671 REV3 GATE 6 = 29873 GATE 7 = 30210 GATE 14 = 31139		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed? <i>If no provide details and rectify signs</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes? <i>If no provide details and rectify signs</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated? <i>If no provide details of action required to rectify delineation</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments or details of action taken: NA	
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated? <i>If no provide details and rectify location</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken: RAS BOARD'S GATE 2	
Are temporary speed zones operating as prescribed? <i>If no provide details and discuss with work supervisor</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken: 80RW SPEED REDUCTION 60RW SPEED REDUCTION (ESTOPS).	
Are PTCO positioned as prescribed in TGS? <i>If no provide details of action required to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken: PTCO USED = GATE-6 - GATE-14 (WOOLIBRAR).	

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	

Post site inspection confirmation	
Is worksite layout operating safely as intended? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have key TTM risks been addressed on site? <i>If no provide details of additional hazards and controls required</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required? <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments or details of action taken:	

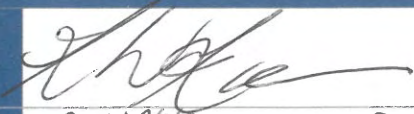
Additional comments:



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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	KORINA WIKAIRĒ	Signature:	
TMP Reference:	N2NS/NEWELL HWY	TGS Reference:	29671 REV3 - 29758 - 30210 30180 REV1 - 31838 - 30746 REV3
Date:	24-7-2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	29671 REV3 - GATE 2 29873 29758 - GATE 6 30210 - GATE 7 30212 - GURLEY ST/166S 30180 REV1 - MARDEN RD 31838 - GATE 11 - RMS PAD 30746 REV3 - GATE 1 2021-0685 - MILLIE RD		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection		
Sign sizes as prescribed? <i>If no provide details and rectify signs</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		
Signs are mounted level and suitably clear of travel lanes? <i>If no provide details and rectify signs</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		
Has temporary delineation been applied as prescribed, with permanent markings obliterated? <i>If no provide details of action required to rectify delineation</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments or details of action taken:	NA	
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated? <i>If no provide details and rectify location</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	RAS BOARDS AT GATE 2.- SOUTH BOUND RAS DAMAGED -	
Are temporary speed zones operating as prescribed? <i>If no provide details and discuss with work supervisor</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	GATE 2-6-7 80RW SPEED REDUCTION GURLEY SETTLETS 80RW SPEED REDUCTION GATE 1 } 60RW SPEED REDUCTION (PTCD) GATE 11 } MARDILL RD }	
Are PTCD positioned as prescribed in TGS? <i>If no provide details of action required to rectify</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
<p>Comments or details of action taken:</p>	

Post site inspection confirmation	
Is worksite layout operating safely as intended? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have key TTM risks been addressed on site? <i>If no provide details of additional hazards and controls required</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required? <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments or details of action taken:	

Additional comments:


* ISSUES AT GATE 1, NARRABRI. CREW FORGOT ESTOP CONTROL & 1 BATTERY. PTS & FLAGMAN WERE PUT IN PLACE. TILL ISSUE WAS CORRECTED.
 - ISSUE HAS BEEN CORRECTED.



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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	ZACHARY VAUGH	Signature:	
TMP Reference:	Stage 1 - NZNZ	TGS Reference:	29671, 28239, 28288
Date:	27/7/22	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	Stage 1 - NZNZ 29671 29671, 28299, 28288		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection		
Sign sizes as prescribed? <i>If no provide details and rectify signs</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		
Signs are mounted level and suitably clear of travel lanes? <i>If no provide details and rectify signs</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		
Has temporary delineation been applied as prescribed, with permanent markings obliterated? <i>If no provide details of action required to rectify delineation</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments or details of action taken:	N/A	
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated? <i>If no provide details and rectify location</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		
Are temporary speed zones operating as prescribed? <i>If no provide details and discuss with work supervisor</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		
Are PTCD positioned as prescribed in TGS? <i>If no provide details of action required to rectify</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	

Post site inspection confirmation	
Is worksite layout operating safely as intended? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have key TTM risks been addressed on site? <i>If no provide details of additional hazards and controls required</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required? <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments or details of action taken:	

Additional comments:



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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	Bree-Anna Aelams. <i>[Signature]</i>	Signature:	<i>[Signature]</i>
TMP Reference:	Stag 1 - N2NS	TGS Reference:	29671, 28239, 28288
Date:	01/08/2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available? <i>If no inspection must not be undertaken until documents are obtained</i>			<input type="checkbox"/> Yes <input type="checkbox"/> No
Details of TMP and TGS:	Stag 1 - N2NS 29671, 28239, 28288		
Are the location TMP and relevant TGS approved? <i>If no, work must be stopped until documents are approved</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention? <i>If no provide details and rectify signs</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	N/A
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	
Are PTCD positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	


Post site inspection confirmation	
Is worksite layout operating safely as intended?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	
Have key TTM risks been addressed on site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of additional hazards and controls required</i>
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>
Comments or details of action taken:	

Additional comments:



E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

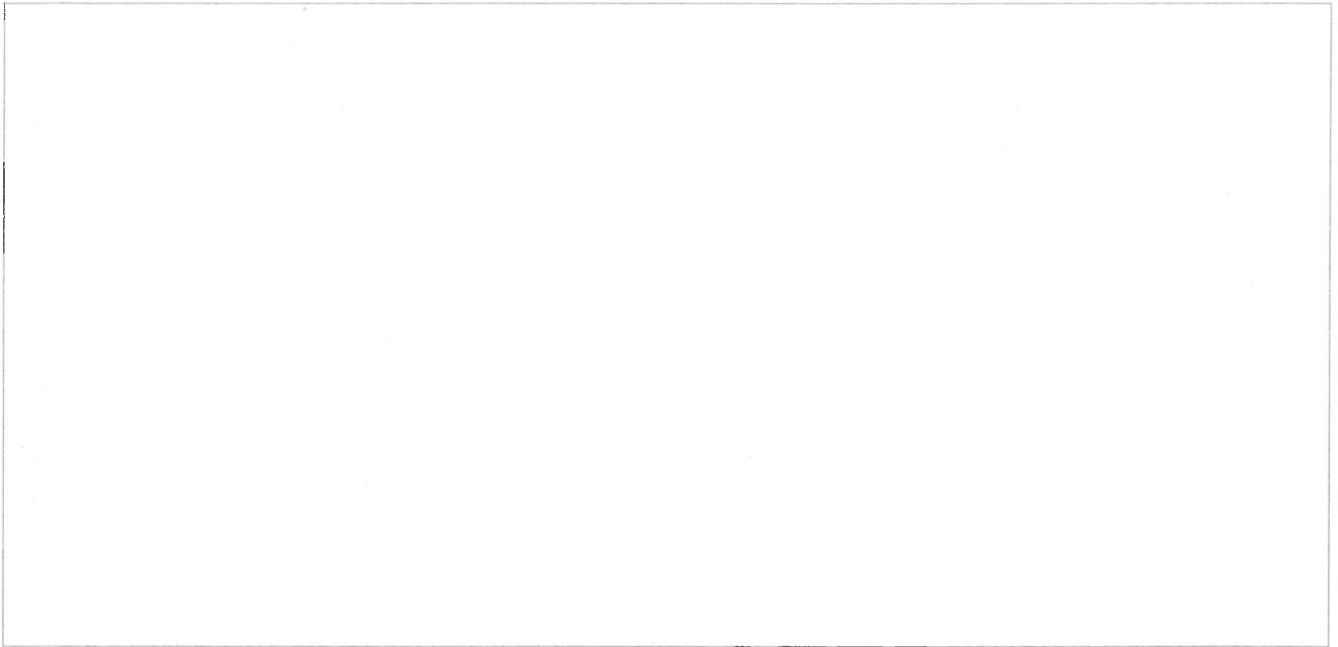
Completed by:			
Name:	Bree Anna Delmones	Signature:	
TMP Reference:	Stage 1 - NSN 8	TGS Reference:	24671, 28239, 28288
Date:	7/08/2022 8:28am	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	★ Stage 1 - NSN 8 ✦ 29671, 28239, 28288		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	N/A
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	
Are temporary speed zones operating as prescribed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	
Are PTCO positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Site Inspection	
Are manual traffic controllers clear of travel lane, have suitable escape route? <div style="float: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	
Are site accesses and egresses well defined and safe for work vehicles? <div style="float: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	
Termination signs are suitably located? i.e. D downstream of last activity. <div style="float: right;"> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No </div> <p style="text-align: right; font-size: small;"><i>If no provide details of action required to rectify</i></p>	
Comments or details of action taken:	


Post site inspection confirmation	
Is worksite layout operating safely as intended?	
<i>If no provide details and implement controls to rectify</i>	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks?	
<i>If no provide details and implement controls to rectify</i>	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comments or details of action taken:	
Have key TTM risks been addressed on site?	
<i>If no provide details of additional hazards and controls required</i>	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required?	
<i>If no provide details and discuss with nominated rep completing Shift Inspections</i>	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Comments or details of action taken:	

Additional comments:



E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	Keerina Wikairi	Signature:	
TMP Reference:	NZNS/NEWEN HWY	TGS Reference:	
Date:	17-8-2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	-29671 REV3 -30180 REV1 -29758 - -30210 STAGE 1 -32358 REV2		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input checked="" type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:	LX3057-BOBBINAR AFTERNOON SHIFT NIGHT SHIFT		

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	LX3057 - BOBBIWANA PTS/TRAFFIC LIGHTS AHEAD GATE 2 - RAS BOARDS
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	STOPS SETUP BORN SPEED REDUCTION GORN SPEED REDUCTION
Are PTCD positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	PTCD USED - LX3057 BOBBIWANA - MACQUEW ROAD.

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	

Post site inspection confirmation	
Is worksite layout operating safely as intended?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	LX3057 - BOBBIWAA = DAY MARKET
Has TMP identified and addressed key TTM risks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	
Have key TTM risks been addressed on site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of additional hazards and controls required</i>
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>
Comments or details of action taken:	


Additional comments:

* No issues



E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	KORINA WIKAIRĀ	Signature:	
TMP Reference:	STAGE 1 NZNS / NEWELL HWY	TGS Reference:	
Date:	24-8-2022	Inspection type	<input type="checkbox"/> Pre-opening <input type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	- 29758 - 30210 - 29708 - 32358 REV 2 - 30212		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

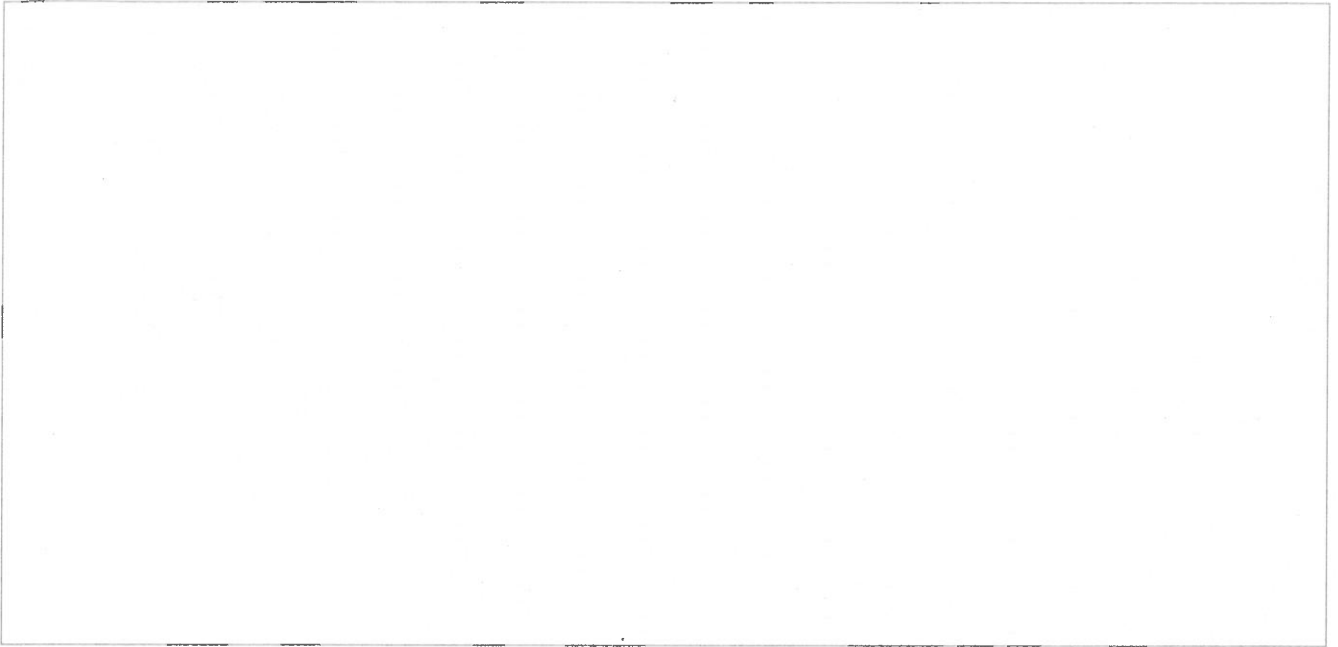
Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	LX3057 - BOBBINARA GATE 2 - RAS BOARDS
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	BORN S/R ESTOP SETUP BORN S/R
Are PTCO positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	LX3057 - BOBBINARA GATE 2 MARDEN ROAD

Site Inspection	
Are manual traffic controllers clear of travel lane, have suitable escape route?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	
Are site accesses and egresses well defined and safe for work vehicles?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	
Termination signs are suitably located? i.e. D downstream of last activity.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Post site inspection confirmation	
Is worksite layout operating safely as intended?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and implement controls to rectify</i>
Comments or details of action taken:	
Have key TTM risks been addressed on site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of additional hazards and controls required</i>
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>
Comments or details of action taken:	


Additional comments:

* MARDULL ROAD
 - ISSUES WITH ESTOPS
 - REPLACED WITH ANOTHER SET.



E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

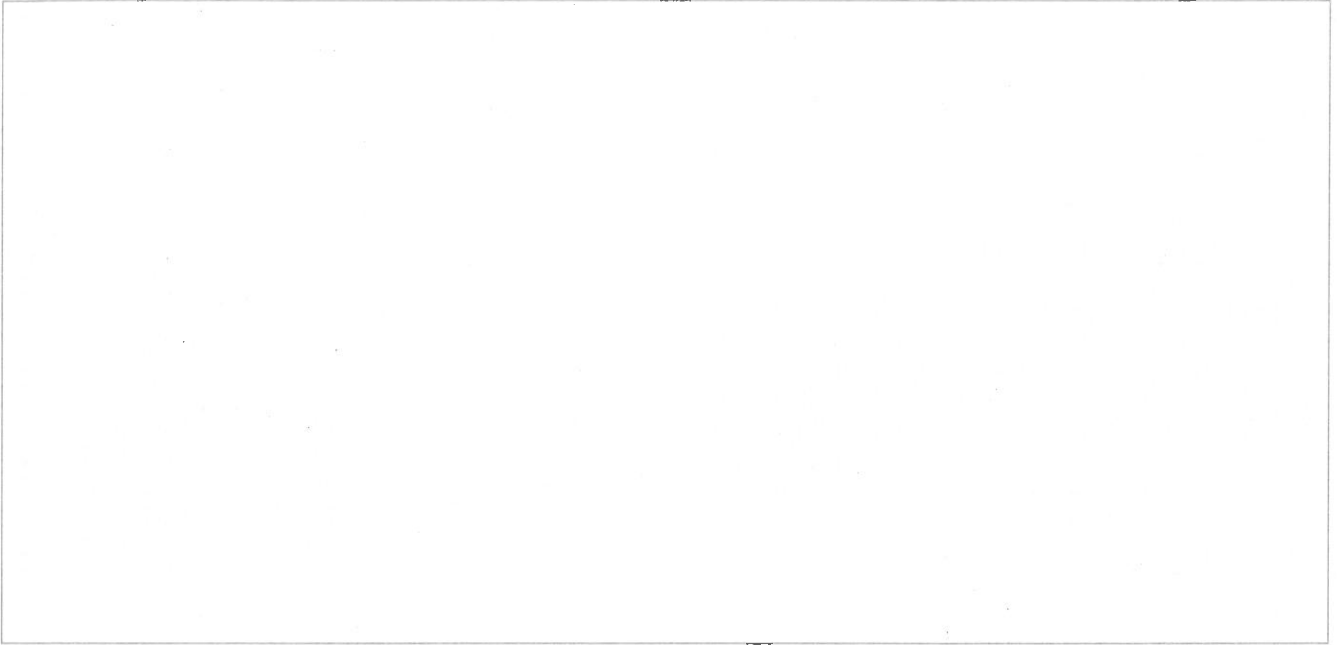
Completed by:			
Name:	KORINA WICKAIRE	Signature:	
TMP Reference:	N2NS / NEWELL HWY	TGS Reference:	
Date:	7-9-2022	Inspection type	<input type="checkbox"/> Pre-opening <input type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	29708 - 29873 - 30180 REV 2		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	RAS Boards AT GATE 2
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	
Are PTCB positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	


Post site inspection confirmation	
Is worksite layout operating safely as intended?	<input checked="" type="checkbox"/> Yes <i>If no provide details and implement controls to rectify</i> <input type="checkbox"/> No
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks?	<input checked="" type="checkbox"/> Yes <i>If no provide details and implement controls to rectify</i> <input type="checkbox"/> No
Comments or details of action taken:	
Have key TTM risks been addressed on site?	<input checked="" type="checkbox"/> Yes <i>If no provide details of additional hazards and controls required</i> <input type="checkbox"/> No
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required?	<input checked="" type="checkbox"/> Yes <i>If no provide details and discuss with nominated rep completing Shift Inspections</i> <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments or details of action taken:	

Additional comments:



E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

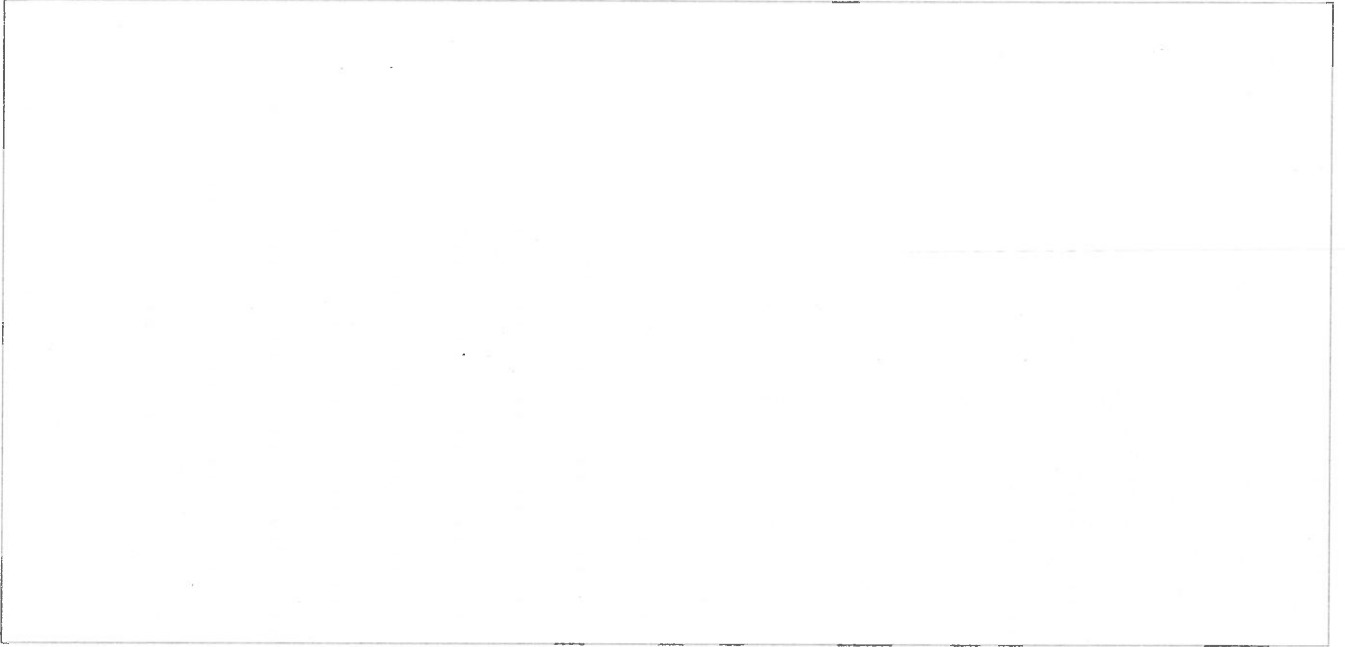
Completed by:			
Name:	KORINA WIKAIKE	Signature:	
TMP Reference:	N2NS/NEWELL HWY	TGS Reference:	
Date:	14-9-22	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available? <i>If no inspection must not be undertaken until documents are obtained</i>			<input type="checkbox"/> Yes <input type="checkbox"/> No
Details of TMP and TGS:	29708-29873-31139-30210		
Are the location TMP and relevant TGS approved? <i>If no, work must be stopped until documents are approved</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention? <i>If no provide details and rectify signs</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	VMS BOARDS LATE 2 & RAS BOARDS.
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	- 80KM SPEED REDUCTION - 60KM SPEED REDUCTION (ESTOPS).
Are PTCB positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	
<p>Comments or details of action taken:</p>	


Post site inspection confirmation	
Is worksite layout operating safely as intended?	<input checked="" type="checkbox"/> Yes <i>If no provide details and implement controls to rectify</i> <input type="checkbox"/> No
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks?	<input checked="" type="checkbox"/> Yes <i>If no provide details and implement controls to rectify</i> <input type="checkbox"/> No
Comments or details of action taken:	
Have key TTM risks been addressed on site?	<input checked="" type="checkbox"/> Yes <i>If no provide details of additional hazards and controls required</i> <input type="checkbox"/> No
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required?	<input checked="" type="checkbox"/> Yes <i>If no provide details and discuss with nominated rep completing Shift Inspections</i> <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments or details of action taken:	

Additional comments:



E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	KORINA WIKARIKÉ	Signature:	
TMP Reference:	NZNS / WENEU HNY	TGS Reference:	
Date:	21-9-22	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	33859 - 29852 REV 2 - 29873 ~ 31139 30210 REV 3 - 2021 - 0685		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed? <div style="text-align: right;"><i>If no provide details and rectify signs</i></div> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes? <div style="text-align: right;"><i>If no provide details and rectify signs</i></div> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated? <div style="text-align: right;"><i>If no provide details of action required to rectify delineation</i></div> <input type="checkbox"/> Yes <input type="checkbox"/> No	
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated? <div style="text-align: right;"><i>If no provide details and rectify location</i></div> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comments or details of action taken:	GATE 2 LX3055
Are temporary speed zones operating as prescribed? <div style="text-align: right;"><i>If no provide details and discuss with work supervisor</i></div> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comments or details of action taken:	- ESTOPS BORN, SPEED REDUCTION - SPEED REDUCTION BORN
Are PTCB positioned as prescribed in TGS? <div style="text-align: right;"><i>If no provide details of action required to rectify</i></div> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comments or details of action taken:	- GATE 5 - TREMAYNE LANE - GATE 6 - KANIMBLA ROAD - GATE 2

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	


Post site inspection confirmation	
Is worksite layout operating safely as intended? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have key TTM risks been addressed on site? <i>If no provide details of additional hazards and controls required</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required? <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments or details of action taken:	

Additional comments:



E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

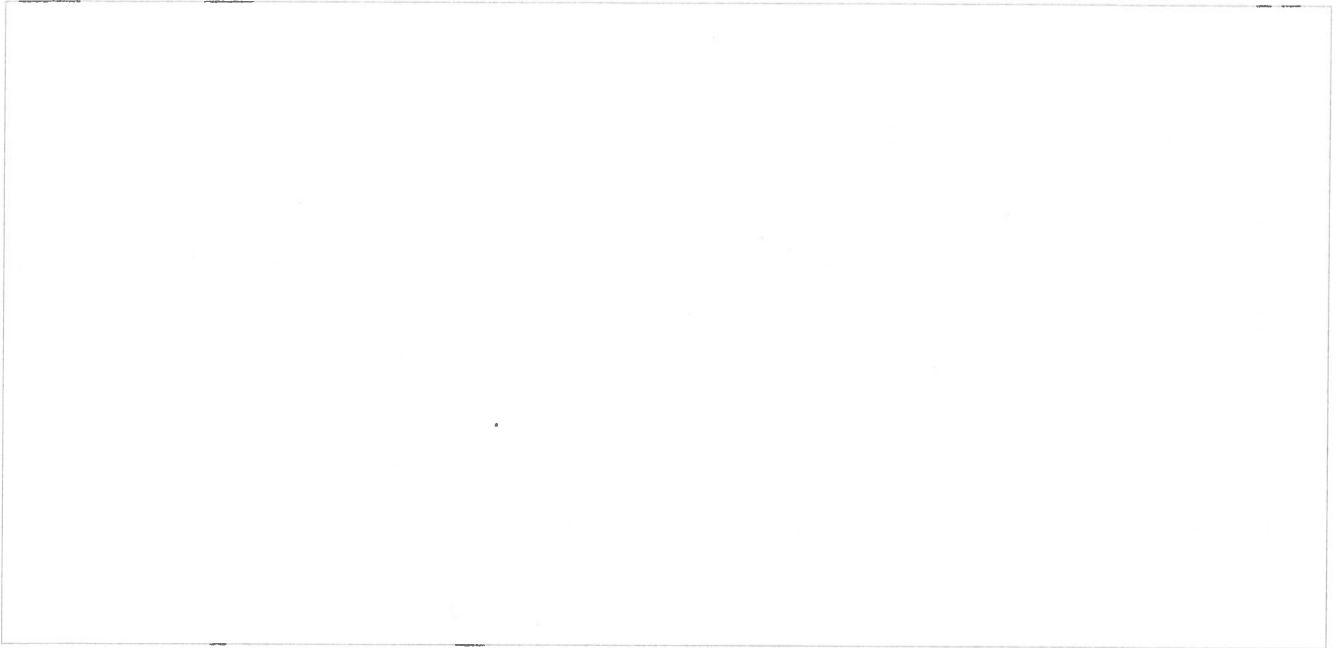
Completed by:			
Name:	KORINA WIKARIĆ	Signature:	
TMP Reference:	N2NS/NEW NEWELL HWY	TGS Reference:	
Date:	28-9-22	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available? <i>If no inspection must not be undertaken until documents are obtained</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Details of TMP and TGS:	29708 29873 30210 REV 3 2021-0685	31139 29758 REV 1	
Are the location TMP and relevant TGS approved? <i>If no, work must be stopped until documents are approved</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention? <i>If no provide details and rectify signs</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	GATE 2 ADVANCED WARNING VMS (BOBBINA & GALATHERA)
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	
Are PTC D positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	


Post site inspection confirmation	
<p>Is worksite layout operating safely as intended?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Has TMP identified and addressed key TTM risks?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have key TTM risks been addressed on site?</p> <p style="text-align: right;"><i>If no provide details of additional hazards and controls required</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have copies of Shift Inspections been sighted as completed as required?</p> <p style="text-align: right;"><i>If no provide details and discuss with nominated rep completing Shift Inspections</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<p>Comments or details of action taken:</p>	

Additional comments:



E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	KORINA WIKAIKE	Signature:	
TMP Reference:	NZMS/NEWELL HWY	TGS Reference:	
Date:	5-10-2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available? <i>If no inspection must not be undertaken until documents are obtained</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Details of TMP and TGS: -29671 REV 3 -29758 -31139 - 29852 REV 2 -32358 REV 2 -2021-0685	-29758 REV 2 -33470 REV 3		
Are the location TMP and relevant TGS approved? <i>If no, work must be stopped until documents are approved</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention? <i>If no provide details and rectify signs</i>			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	- GATE 2 - X2 VMS (ADVANCED WARNING)
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	
Are PTCB positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	

Post site inspection confirmation	
<p>Is worksite layout operating safely as intended?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Has TMP identified and addressed key TTM risks?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have key TTM risks been addressed on site?</p> <p style="text-align: right;"><i>If no provide details of additional hazards and controls required</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have copies of Shift Inspections been sighted as completed as required?</p> <p style="text-align: right;"><i>If no provide details and discuss with nominated rep completing Shift Inspections</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<p>Comments or details of action taken:</p>	


Additional comments:



Reset forms - pages 273 to 277

E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	Korina Nikmet	Signature:	
TMP Reference:	NZNS / NEWEN Hwy	TGS Reference:	
Date:	12-10-22	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	- 29671 REV3 - 2021-0685 - 29852 REV2 - 29758 REV1 - 31139 - 31139 REV2		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection	
Sign sizes as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Signs are mounted level and suitably clear of travel lanes?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify signs</i>
Comments or details of action taken:	
Has temporary delineation been applied as prescribed, with permanent markings obliterated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If no provide details of action required to rectify delineation</i>
Comments or details of action taken:	NA
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and rectify location</i>
Comments or details of action taken:	ADVANCED WARNING VMS X2 (BOBBINAWA SOUTH). X2 VMS AT GATE 2 (GALATHERA LANE) RAS BOARDS GATE 2
Are temporary speed zones operating as prescribed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details and discuss with work supervisor</i>
Comments or details of action taken:	ESTOPS – 60RN SPEED REDUCTIONS 80RN
Are PTCB positioned as prescribed in TGS?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If no provide details of action required to rectify</i>
Comments or details of action taken:	

Site Inspection	
	<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>
Comments or details of action taken:	
	<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>
Comments or details of action taken:	
	<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>
Comments or details of action taken:	

Post site inspection confirmation	
<p>Is worksite layout operating safely as intended?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Has TMP identified and addressed key TTM risks?</p> <p style="text-align: right;"><i>If no provide details and implement controls to rectify</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have key TTM risks been addressed on site?</p> <p style="text-align: right;"><i>If no provide details of additional hazards and controls required</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<p>Comments or details of action taken:</p>	
<p>Have copies of Shift Inspections been sighted as completed as required?</p> <p style="text-align: right;"><i>If no provide details and discuss with nominated rep completing Shift Inspections</i></p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<p>Comments or details of action taken:</p>	


Additional comments:



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E.3 Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	Korina Nikaité	Signature:	
TMP Reference:	NZNS / NEWELL HWY	TGS Reference:	
Date:	19-10-2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	29671 REV3 31139 REV2 29758 2021-1576 30210 REV3 32470 REV2 2021-0685		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection		
Sign sizes as prescribed? <i>If no provide details and rectify signs</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		
Signs are mounted level and suitably clear of travel lanes? <i>If no provide details and rectify signs</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		
Has temporary delineation been applied as prescribed, with permanent markings obliterated? <i>If no provide details of action required to rectify delineation</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments or details of action taken:	NA	
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated? <i>If no provide details and rectify location</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	ADVANCED WARNING VMS BOARDS (BOBBINIA) @ GADATHERA LANE	
Are temporary speed zones operating as prescribed? <i>If no provide details and discuss with work supervisor</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		
Are PTCB positioned as prescribed in TGS? <i>If no provide details of action required to rectify</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Comments or details of action taken:	CREWS ON STAND BY DUE TO WEATHER.	

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes</p> <p><input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	

Post site inspection confirmation	
Is worksite layout operating safely as intended? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have key TTM risks been addressed on site? <i>If no provide details of additional hazards and controls required</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required? <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments or details of action taken:	

Additional comments:

- DUE TO WEATHER CONDITIONS, ESTOP SETUPS WERE ON HOLD. DUE TO WEATHER (RAIN) - SPEED REDUCTIONS (CANCELLED).

- LATER ON DURING THE MORNING, ALL HNY WORKS WERE CANCELLED.


- GATE 14, LEVEL CROSSING REMAIN OPEN FOR BALLAST TRAIN.....

-LX3065 GATE 15- PAD 6, REMAIN OPEN FOR TAMPING & BALLAST TRAIN.
SPOTTERS USED ON LEVEL CROSSING FOR THESE WORKS.

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Weekly TTM inspection checklist

Weekly inspections must only be carried out by a PWZTMP qualified person. Weekly inspections must be carried out when a site is first open and at least once every week thereafter.

Completed by:			
Name:	Korina Nikanek	Signature:	
TMP Reference:	N2NS/Wentworth Hwy	TGS Reference:	
Date:	26-10-2022	Inspection type	<input type="checkbox"/> Pre-opening <input checked="" type="checkbox"/> Weekly
Desktop review			
Is a copy of the location TMP and relevant TGS available?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no inspection must not be undertaken until documents are obtained</i>			
Details of TMP and TGS:	29671 REV3 29758 30210 REV3. 2021-0685 29758 REV1		
	31139 REV2. *28239 MOBILE WORKS - (SWEEPER).		
Are the location TMP and relevant TGS approved?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no, work must be stopped until documents are approved</i>			
Comments or details of action taken:			
Site Inspection			
Inspection completed:	<input checked="" type="checkbox"/> During the day <input type="checkbox"/> During the night		
Signs and devices positioned as prescribed and commanding attention?			<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>If no provide details and rectify signs</i>			
Comments or details of action taken:			

Site Inspection		
Sign sizes as prescribed? <i>If no provide details and rectify signs</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		
Signs are mounted level and suitably clear of travel lanes? <i>If no provide details and rectify signs</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		
Has temporary delineation been applied as prescribed, with permanent markings obliterated? <i>If no provide details of action required to rectify delineation</i>		<input type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	NA	
Are registered trailers i.e. VMS / light towers; suitably clear of travel lanes and delineated? <i>If no provide details and rectify location</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	ADVANCED WARNING VMS BOARDS, BOBBINAW & GYATHENA LANE RAS BOARDS AT GATE 2.	
Are temporary speed zones operating as prescribed? <i>If no provide details and discuss with work supervisor</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	BORN SPEED REDUCTION BORN SPEED REDUCTION.	
Are PTCD positioned as prescribed in TGS? <i>If no provide details of action required to rectify</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:		

Site Inspection	
<p>Are manual traffic controllers clear of travel lane, have suitable escape route?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	
<p>Are site accesses and egresses well defined and safe for work vehicles?</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	
<p>Termination signs are suitably located? i.e. D downstream of last activity.</p> <p style="text-align: right;"><i>If no provide details of action required to rectify</i></p>	<p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
<p>Comments or details of action taken:</p>	

Post site inspection confirmation	
Is worksite layout operating safely as intended? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Has TMP identified and addressed key TTM risks? <i>If no provide details and implement controls to rectify</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have key TTM risks been addressed on site? <i>If no provide details of additional hazards and controls required</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Comments or details of action taken:	
Have copies of Shift Inspections been sighted as completed as required? <i>If no provide details and discuss with nominated rep completing Shift Inspections</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Comments or details of action taken:	

Additional comments:

- GATE 15 - PAD 6 - CANCELLED.
- GATE 4-B - CANCELLED
- GATE 6-B - CANCELLED.

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