



7 December 2020

REF: AQ1148.5 monthly report 2011

Transport for NSW

Attention to: **Andrew Quarmby**
Parramatta Light Rail

RE: Parramatta Light Rail – ER Monthly Report for November 2020

AQUAS submits this report to the Secretary in accordance with:

- Condition A23 (i) of the Conditions of Approval for the Parramatta Light Rail project, ER is to prepare and submit to the Secretary and other relevant regulatory agencies, for information, an **Environmental Representative Monthly Report**, and;
- As required by the appointment as the approved Environmental Representative (DPE letter dated 21/8/2018)

The attached summary details the requirements of the monthly report in accordance with the ER Protocol for works during the month of November 2020 for the Parramatta Light Rail project.

The report includes information for the following contractors/packages:

- DWJV – Enabling road works (Package 1)
- Ventia – Early works portion 2
- PCLR (CPBD) – Infrastructure works
- GRCLR – SOM

Yours sincerely,

Australian Quality Assurance & Superintendence Pty Ltd (AQUAS)

A handwritten signature in black ink, appearing to read 'G. Lehn'.

Gillian Lehn

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Enabling Road Works – DWJV - Summary Table for November 2020

Key construction activities ER team: Gillian Lehn	Nil works were completed during the reporting period
Upcoming construction activities, monthly look ahead	George Street: Installation of heritage interpretation (subject to approvals) Robin Thomas Reserve Playing field reconfiguration
Changes to project:	Nil this reporting period
ER Activities Site inspections :	There were nil inspections conducted by the ER: Inspections have been put on hold until works associated with Woolpack Hotel, heritage interpretation installation and Robin Thomas Reserve can take place
Audits :	Nil this reporting period
Community consultation	Nil this reporting period
Complaints received	Complaints received for Enabling Works during November were as follows: - nil
Environmental Performance/NCR/Incidents	Enabling works - DWJV NCR's - Nil this reporting period. Incidents - Nil this reporting period
Lessons learnt/Opportunities for Improvement	The following Opportunities for improvement were identified: - Nil this reporting period
Changes to Project Plans/Approvals	The following management plans were updated and submitted for re-endorsement during the reporting period: <ul style="list-style-type: none"> • Construction Environmental Management Plan • Air Quality Management Sub-Plan • Contaminated Land Management Sub-Plan • Traffic, Transport and Access Management Sub-Plan • Fauna and Flora Management Sub-Plan • Flood Management Plan • Heritage Management Plan • Noise and Vibration Management Sub-Plan • Soil and Water Management Sub-Plan • Waste and Resource Management Sub-Plan

Meetings attended	Nil this reporting period
Documents issued by ER	Endorsements : <ul style="list-style-type: none"> • SWMP Rev 2 • TTAMP Rev N • CEMP Rev 9 • FMP Rev 3 • WRMP Rev 2 • CLMP Rev 1 • FFMP Rev 3
	OOH approvals : Nil this reporting period
	Minor Ancillary Facility approval : Nil this reporting period
Requests or CAR's by ER	Nil this reporting period
Analysis of monitoring results	Noise Monitoring Events – 0 Vibration Monitoring Events – 0

Photos

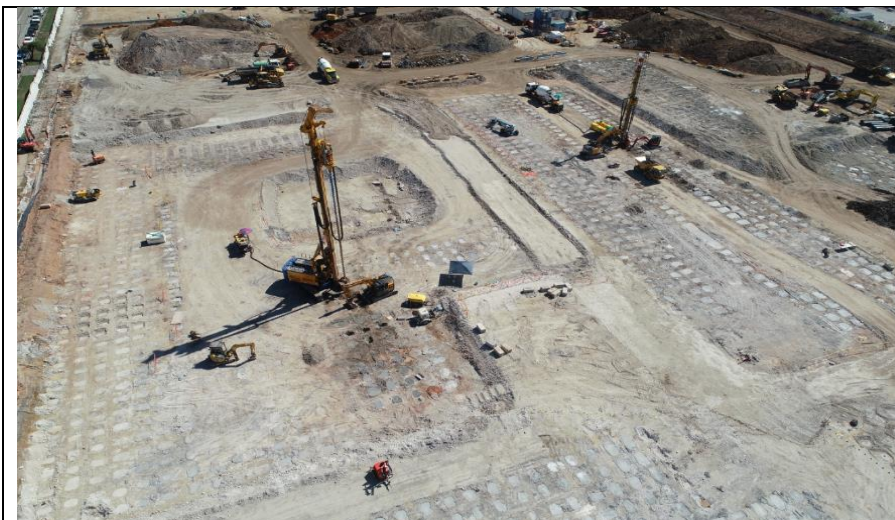
There were no inspections undertaken during the reporting period

Summary Table for November 2020 -Ventia – Early Works Portion 2

Key construction activities ER team: Gillian Lehn	The following construction activities were undertaken in November: <ul style="list-style-type: none"> - Containment cell works - Integrated capping system - Ground improvement, platforms - Ground improvement, columns. There are approximately 668 columns remaining - Ground improvement, correction layers and load transfer platforms - Stockpile management and offsite disposal
Upcoming construction activities, monthly look ahead	In December, the construction of remediation infrastructure and ground improvement will continue. The activities and works will include: <ul style="list-style-type: none"> • Ground improvement and column installation • Integrated capping system • Containment cell fill • Containment cell capping liner • Sliver liner works • Relocation of site buildings
Changes to project:	Nil this reporting period
ER Activities Site inspections :	There were two inspections conducted by the ER: VNT045 - 10 November 2020 VNT046 – 24 November 2020
Audit	Nil this reporting period
Community consultation	<p>Due to COVID-19 restrictions, there were no face-to-face community or stakeholder engagement activities.</p> <p>Environmental Monitoring Summaries for October 2020 were sent during November to the following community stakeholders:</p> <ul style="list-style-type: none"> - ATC - James Hardie - CSR Monier <p>Unattended Vibration monitoring device was collected from James Hardie laboratory following the monitoring of ground vibration activity during piling works along the southern boundary.</p> <p>Holcim Concrete batch plant on Grand Ave was contacted regarding night time operation hours to undertake additional noise monitoring</p>
Complaints received	Nil this reporting period.
Environmental Performance/NCR/Incidents	TWA exceedance (24 September 2020) – Treated water was discharged at a rate of 230kL/day in accordance with new TWA, this resulted in an exceedance of the TDS Max Daily Mass discharge limit. The exceedance was reported to Sydney Water and discussion around adjusted TWA discharge limits. Discharge rate has been reduced to 200kL/day until TWA can be resolved.
Lessons learnt/Opportunities for Improvement	The following opportunity for improvement was raised during ER inspections undertaken in November:

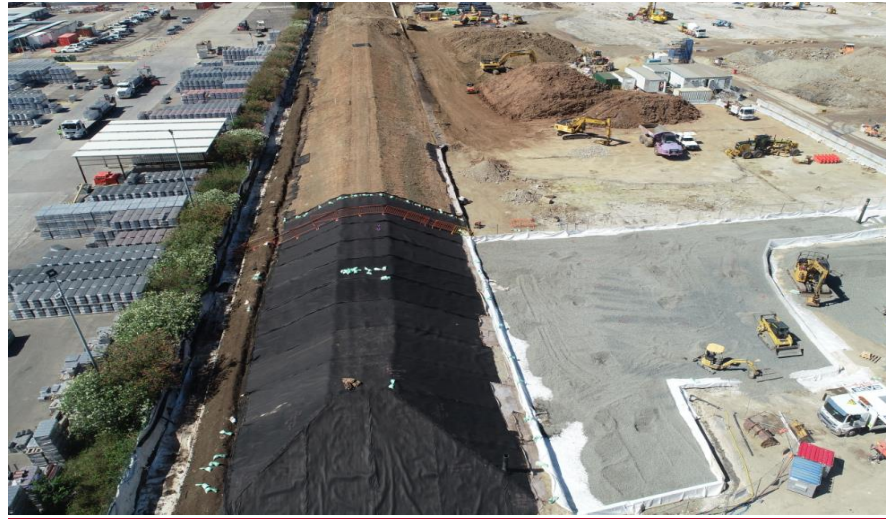
	- Nil
Changes to Project Plans/Approvals	Nil this reporting period
Meetings attended	ER attended the following meetings: <ul style="list-style-type: none"> - 10 November 2020 (ERG) - 24 November 2020 (ERG)
Documents reviewed and endorsed by ER this reporting period	Nil this reporting period
Document issued by ER	OOH approvals : <ul style="list-style-type: none"> - Nil this reporting period
	Minor Ancillary Facility approval : Nil this reporting period
Requests or CAR's by ER	Nil this reporting period
Analysis of monitoring results	The analysis of monitoring for November 2020 were as follows: <ul style="list-style-type: none"> - Total treated water for period 01/11/2020 to 30/11/2020 = 2,621 kL - 46.5mm of rainfall recorded onsite during this period: - Trade Waste Sampling Event – Undertaken on the 14/11/2020 - Unattended vibration monitoring device showed no exceedances at James Hardie laboratory during ground vibration activity.

Photos



Drone image – 26/11/2020

Ground improvement column installation



Drone image – 26/11/2020

Containment cell capping and liner installation



Inspection VNT046 – 24/11/2020

Volume of water on site has significantly reduced.

Summary Table for November 2020 -Parramatta Connect Light Rail (CPBD) – Infrastructure Package

<p>Key construction activities</p> <p>ER team:</p> <p>Gillian Lehn</p> <p>Annabelle Tungol</p>	<p>The following construction activities were undertaken in November:</p> <p>Area 1</p> <p><i>Westmead</i></p> <ul style="list-style-type: none"> – Ongoing utility installations – Ongoing drainage and Combined Service Route works <p><i>Cumberland</i></p> <ul style="list-style-type: none"> – Ongoing utility installations <p><i>North Parramatta</i></p> <ul style="list-style-type: none"> – Pre-track works at Victoria Rd and Pennant Hills Rd intersection completed – Traffic switch Stage 2 planned for the end of November 2020 – Ongoing drainage and Combined Service Route works <p>Area 2 West (CBD)</p> <ul style="list-style-type: none"> – Ongoing utility installations on Church Street, George Street and Macquarie Street – Ongoing electrical and lighting works – Ongoing Multifunction Pole works – Ongoing civil works (tree pits, Combined Service Routes, footpath slabs) along Church Street – Drainage works along Church Street, North Lennox Bridge and Macquarie Street – Commencing outlet works on Parramatta River foreshore for microtunnel – Commencing manual tunnelling from pit 5 to pit 6 <p>Area 2 East (Smith Street to Arthur Street)</p> <ul style="list-style-type: none"> – Utility installations on Harris Street, Macquarie Street, George Street, Purchase Street, Arthur Street and Charles Street – Ongoing installation of Multifunction Poles – Drainage works at Tramway Avenue, Robin Thomas Reserve and Macquarie Street – Ongoing civil works along Tramway Avenue and Macquarie Street (Combined Services Route, track slab box-out) <p>Area 3</p> <p><u>Camellia</u></p> <ul style="list-style-type: none"> – Bridge girder installation for James Ruse Drive Bridge – Ongoing retaining wall works – Ongoing utility works at Grand Avenue – Ongoing stormwater drainage, Combined Service Route and track works along Sandown Line <p><u>Carlingford Line</u></p> <ul style="list-style-type: none"> – Kissing Point Road Bridge track works – Vineyard Creek Bridge form retain pour works
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	<ul style="list-style-type: none"> – Victoria Road & Adderton Road deflection wall form retain pour works – Combined Service Route and lighting works in Carlingford – Retaining wall and stormwater drainage works from Rydalmere to Carlingford – Ongoing utility works at Leamington Road – Ongoing utility works for Sydney Water Sewer in Carlingford
Upcoming construction activities, monthly look ahead	<p>Area 1:</p> <ul style="list-style-type: none"> – Continue utility works UTC-019, UTC-022, UTC-023, UTC-024 – UTC-016 (Hawkesbury Rd, Westmead) and UTC-025 (along Church St between Ross St and Market St) nearing completion – Commenced drainage and combined services routes works at Westmead and North Parramatta – Property adjustments continuing – Upcoming works at Cumberland precinct include installation of temporary jetty and bridge piling from January 2021 <p>Area 2</p> <p><u>Area 2 West (CBD)</u></p> <ul style="list-style-type: none"> – Continue with UTC-005, 007, 008, 011, 035, 041 – Microtunnel – Foreshore works and river connection – Church Street – continue civil works and drainage – Church Street – commence box out for CSR and track slab – Macquarie Street – drainage – Macquarie Street - track and slab installation <p><u>Area 2 East (Smith Street to Arthur Street)</u></p> <ul style="list-style-type: none"> – Continue with UTC-006, 009, 010, 012, 041, 051 – Continue drainage works – Tramway Ave, Macquarie Street and Robin Thomas Reserve – Commence drainage George Street – Tree removal on George Street/Alfred St (Tn 11112) – Macquarie Street - track and slab installation <p>Area 3</p> <p><u>Camellia</u></p> <ul style="list-style-type: none"> – JRD Bridge FRP and Girder landing. – Utility works at Grand Avenue & Grand Avenue North – CSR and Track works at Sandown Line <p><u>Carlingford Line</u></p> <ul style="list-style-type: none"> – Kissing Point Road bridge track works – Vineyard Creek Bridge FRP and bridge deck installation. – Leamington Road Underpass FRP works – Adderton Road Overbridge / ATL excavation works. – CSR works from Dundas to Carlingford

	<ul style="list-style-type: none"> – Retaining wall and stormwater drainage works from Rydalmere to Carlingford. – FRP works at Victoria and Adderton Road deflection walls – Utility works at Dudley Street Rydalmere – Utility works at Leamington Road Dundas – Utility works at Winter Street and Adderton Road, Telopea – Utility works at Lloyds Avenue & Boundary Road Carlingford
Changes to project:	<u>Consistency Assessments</u> <ul style="list-style-type: none"> - Nil this reporting period <u>Environmental Review</u> <ul style="list-style-type: none"> - Nil this reporting period
ER Activities Site inspections :	<p>There were four inspections conducted by the ER:</p> <p>CPBD051 – 3 November 2020</p> <p>CPBD052 - 10 November 2020</p> <p>CPBD053 – 18 November 2020</p> <p>CPBD054 – 24 November 2020.</p>
Audit	Internal audits of nominated subplans commenced during reporting period
Community consultation	There were 5 notifications issued for the period including OOH works and changes to traffic conditions.
Complaints received	<p>Total number of complaints – 86</p> <p>33 complaints were associated with noise, primarily at night. 20 complaints associated with traffic and access, as well as an increase in complaints associated with worker behaviour.</p>
Environmental Performance/NCR/Incidents	<p><u>Non-Compliance Report</u></p> <p>Complaints Register (27 November 2020) – A community complaint regarding the Dundas footpath diversion was not entered into the complaints register within the allocated timeframe as defined in the Community Communication Strategy.</p> <p><u>Environmental Incidents</u></p> <p>Concrete Slurry, Kissing Point Road (4 November 2020) – During concrete works at Kissing Point Road Bridge, a small amount of concrete slurry spilled over onto the road. There was no loss of slurry to stormwater.</p> <p>Watermain Impact, George St (30 October 2020) – A watermain was impacted at Alfred and George Street (Speedway) during utility relocation works. Adequate controls were established in the kerb, the stormwater drain was protected and sediment was retained onsite.</p> <p>Fuel Spill (17 November 2020) – A water cart reversed into reinforced steel which damaged fuel tank, resulting in a fuel spill (<10L). The spill was contained with no loss to stormwater.</p> <p>Hydraulic hose, Alfred St (20 November 2020) – A hydraulic hose ruptured resulting in an oil spill (<10L). The spill kit was deployed and there was no impact to stormwater.</p>

	<p>Hydraulic hose, Tramway Avenue (20 November 2020) – A hydraulic hose ruptured resulting in an oil spill (<10L). The spill kit was deployed and there was no impact to stormwater.</p> <p>Diesel spill, Fennel St (26 November 2020) – While repairing broken down truck on sealed road a minor oil spill (<1L) occurred. Spill kit deployed, no runoff to stormwater. Cleanup arranged.</p>
Lessons learnt/Opportunities for Improvement	<p>The following opportunities for improvement were raised during ER inspection undertaken during the reporting period:</p> <ol style="list-style-type: none"> 3/11/20 - Confirm whether waste concrete with reinforcing strands incorporated into mix is able to be recycled with standard concrete waste 3/11/20 - 513 Church St, NPA – Noise blankets should be installed correctly to be effective 3/11/20 - Factory St – Review maintenance of street sweeper as it does not appear to be working effectively at cleaning the road or ensure that it does a number of passes 18/11/20 - Tramway Ave, rear access to 242 George St. Previous driveway has been covered with DGB. This has the potential to cause tracking issues as the resident will be leaving their driveway during all conditions over an unstabilised surface that was previously concrete. Stabilised access should be provided to site work/parking area as well as to residents garage 18/11/20 - Queens Wharf Reserve - Area about to be demobilised. Potential for dust generation during vehicle movements in this area, ensure appropriate mitigation measures are implemented. 18/11/20 - Robin Thomas Reserve - Parking of subcontractor vehicles in unauthorised areas as per ECM.
Changes to Project Plans/Approvals	Annual review of CEMP and sub-plans has been completed
Meetings attended	<p>Env coordination meeting – 10/12/2020</p> <p>Riverbank methodology review – 10/12/20</p> <p>Env coordination meeting – 24/12/2020</p>
Documents reviewed and/or endorsed by ER this reporting period	<p>ECMs – multiple areas</p> <p><u>Flexibility Provision endorsement</u></p> <ul style="list-style-type: none"> FP026: Endorsed in accordance with PCPLR-ER-011 (Rev.03) Area 3 UTC FP027: Endorsed in accordance with PCPLR-ER-051 (Rev1) Winter St, Telopea watermain diversion FP028: Endorsed in accordance with PCPLR-ER-053 (Rev1) Endeavour Energy works, Fennel St
Document issued by ER	<p>OOH approvals : Nil this reporting period</p> <p>Minor Ancillary Facility approval : Nil this reporting period</p>
Requests or CAR's by ER	Nil this reporting period
Analysis of monitoring results	15 x noise monitoring, no exceedances of predictions associated with construction noise (including 4 x continuous noise loggers within Westmead/Cumberland hospital precinct)

	<p>7 x vibration monitoring, no exceedances of predictions (including 3 x continuous vibration monitors within Westmead/Cumberland hospital precinct)</p> <p>DDG for 13A Grand Ave, Dundas, Carlingford, Telopea and Rydalmere. Results for October showed exceedances at all locations with the exception of Rydalmere and Carlingford</p> <p>Asbestos air fibre monitoring was undertaken and no results exceeded the trigger limits.</p> <p>4 x water discharge/dewatering events, within limits</p> <p>Water quality monitoring was undertaken at the following locations: PR1, PR3, PR4, PR5, CC1, CC2, VY1, VY2, SC1, AC1, AC2</p> <p>GHFF monitoring was undertaken on 29/10, 6/11, 12/11 and 16/11.</p> <p>There were no indicators of stress as a result of noise associated with the project.</p>
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Photos



Level 29 Meriton Suites taken 1/11/20

Area 1: **Church Street** –Victoria Rd to Pennant Hills Rd



Inspection CPBD052 – 10/11/2020

Area 3: **Tramway Ave compound** – View west towards Vineyard Creek



Inspection CPBD052 – 10/11/2020

Area 3 : 13A Grand Ave – Stockpile site



Inspection CPBD053 – 18/11/2020

Area 2 : Parramatta River Foreshore – Microtunnelling works have recommenced



Inspection CPBD054 – 24/11/2020

Area 3 : **Pennant Hills Rd, Carlingford** – Retaining walls and bridge protection



Inspection CPBD054 – 24/11/2020

Area 3 : **Vineyard Creek** – Bypass pumping taking place during concreting and formwork strip.

Summary Table for November 2020 – GRCLR - SOM

Environmental Representatives	Gillian Lehn
Key construction activities	Nil construction activities during the reporting period
Upcoming construction activities, monthly look ahead	MWA-003 CCTV survey of assets within the road reserve of Grand Avenue and through adjacent property to the Parramatta River MWA-004 geotechnical works MWA-006 survey and NDD
Changes to project:	Nil this reporting period
ER Activities Site inspections :	Nil this reporting period
Audit	Nil this reporting period
Community consultation	Consultation has been undertaken as part of the revision of management plans to include the whole of project scope
Complaints received	Nil this reporting period
Environmental Performance/NCR/Incidents	Nil this reporting period
Lessons learnt/Opportunities for Improvement	Nil this reporting period
Changes to Project Plans/Approvals	Management plans have been updated to include the whole of project scope
Meetings attended	Meeting attended by ER via Teams: <ul style="list-style-type: none"> - 3 November 2020 (EPS) - 17 November 2020 (EPS)
Documents reviewed and endorsed by ER this reporting period	The following documents were endorsed by ER: <ul style="list-style-type: none"> - Construction Noise and Vibration Management Subplan - Construction Noise and Vibration monitoring program The following documents were updated to include the whole of project scope and were reviewed by ER: <ul style="list-style-type: none"> - Air Quality Management Subplan - CEMP - Soil and Water Management Subplan - Fauna and Flora Management Subplan
Document issued by ER	OOH approvals : Nil this reporting period

	Minor Ancillary Facility approval : Nil this reporting period
Requests or CAR's by ER	Nil this reporting period
Analysis of monitoring results	Nil this reporting period

Photos

Nil inspections conducted to date.

Summary Table for November 2020 – Community Consultation

Due to changed circumstances under COVID-19 restrictions, there were no face-to-face engagement activities with community and stakeholders.

Activity	Detail
Reference Groups via video conference call	22 November – Business Reference Group
Community Information Events	Nil this reporting period
Complaints:	86 complaints received, with the majority in Parramatta CBD and Westmead. Top complaints related to: <ul style="list-style-type: none"> • noise, traffic/parking/access and worker behaviour
Enquiries	135 enquiries were received in November. Top enquiries related to access, construction impacts, end state design and noise/vibration.
Construction Notifications distributed	6 construction notifications distributed in November <ul style="list-style-type: none"> • 5 for Infrastructure Works, • Nil for Enabling Works – works substantially completed • 1 for Early Works,
Fact Sheets <i>(uploaded to website)</i>	Nil this reporting period.
Business Activation activities Facebook posts (Parramatta Light Rail) https://www.facebook.com/ParramattaLightRail	<ul style="list-style-type: none"> • 32 Facebook posts were uploaded during November 2020. The most popular Facebook post by engagement spotlighted the first tracks being laid on PLR.
PLR Quarterly Newsletter	Nil this reporting period
Media Release	<ul style="list-style-type: none"> • Trackwork begins in Westmead • Xmas ADVENTure campaign