

# Planning Approval Environmental Review Form

SM ES-FT-414

Sydney Metro Integrated Management System (IMS)

<b>Assessment Name:</b>	Installation of prisms within Parramatta Park for Settlement Monitoring
<b>Prepared by:</b>	GLC
<b>Prepared for:</b>	Sydney Metro
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Form information – do not alter

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## Environmental Review

### 1. Proposed works and justification

An environmental review is applicable to design changes which are consistent with the conditions of approval and would have no additional impacts on the community and/or the environment. This environmental review is required to demonstrate compliance with the conditions of approval and Sydney Metro Concept and Stage 1 Environmental Impact Assessment, Submission Report, Amendment Report and Modifications 1, 2, 3, 4, 5 and 6. A description of activities is listed in Table 1 and an assessment is provided in Section 2.

Table 1 Description of proposed works

Description	Overview
Location of works	<p>Installation of Settlement Markers on Club Parramatta – within the buffer zone of the following heritage listings:</p> <ul style="list-style-type: none"> <li>• City of Parramatta Council Local Environmental Plan (LEP) 2023               <ul style="list-style-type: none"> <li>○ Parramatta Park and Old Government House (I611 7055)</li> </ul> </li> <li>• State Heritage Register:               <ul style="list-style-type: none"> <li>○ Parramatta Park and Old Government House (SHR 00596)</li> </ul> </li> <li>• EPBC Act 1999 Register (The Old Government House and Domain)               <ul style="list-style-type: none"> <li>○ Commonwealth Heritage List</li> <li>○ National Heritage List</li> <li>○ World Heritage List under Australian Convict Sites</li> </ul> </li> </ul>
Scope of works	<p>Gamuda Laing Orourke Consortium (GLC) will be installing prisms (Figure 1 - 3) at various locations within the Parramatta CBD to monitor any settlement impacts that could arise as a result of the passing TBM and other tunnelling activities. The majority of locations for installation were identified by GLC to be of local or state heritage significance, however one particular structure is the Parramatta Club, which happens to reside within the World Heritage Buffer Zone of Parramatta Park.</p> <p>Installation of prisms would occur via the use of glues approved for use by GLC's Heritage Consultants Umwelt. Three months following the completion of works identified to cause settlement, GLC would remove these prisms mechanically and rectify any damages that may be caused by the prism installation and removal process.</p>
Justification for works	<p>Ministers Condition of Approval (MCoA) D63 identifies the need for GLC to install equipment to monitor the impacts of settlement on structures and buildings at risk of being affected by tunnelling and station excavation activities. Given the necessity to install settlement monitors within a defined radius of tunnelling and station box excavation activities, GLC are limited in the number of suitable monitoring points within the Parramatta CBD area.</p> <p>Given the limited area for installation, several monitoring points were identified to be state or locally listed heritage structures, with one (Parramatta Club) being located within a World Heritage Buffer Zone.</p> <p>GLC have therefore prepared this Environmental Review (E.R) to identify the impact of installing the settlement markers on Club Parramatta.</p>
Timeframe for works	<p>The prisms are proposed to be installed from January 2025 and would take up to a month to complete the scope. Prisms would then be removed mechanically three months following the TBM traversing the area (expectedly in August 2025).</p>
Work hours, workforce and	<p><b>Working hours:</b></p>

<b>equipment / machinery</b>	<ul style="list-style-type: none"> <li>Works would occur during standard hours and would take no more than 10 minutes per prism.</li> </ul> <p><b>Workforce:</b></p> <ul style="list-style-type: none"> <li>&lt;3 staff per prism.</li> </ul> <p><b>Equipment/Machinery:</b></p> <ul style="list-style-type: none"> <li>Heritage Structure approved adhesive and glue.</li> <li>Ladder (if needed)</li> <li>Prism’s (nine in total for Parramatta club)</li> </ul>
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## 2. Consistency with Conditions of Approval

The following table outlines whether the proposed changes would be consistent with the relevant Conditions of Approval.

**Table 2 Comparison of the proposal with relevant elements of the Approved Project**

Relevant elements of the Approved Project	Proposed Change
<p><b>EIS Chapter 12</b></p> <p><b>Section 12.5.2:</b> Identified that ground excavation for Stage 1 has the potential to cause ground movement associated with the redistribution of stresses within the ground or groundwater drawdown. Table 12-3 identified the Roxy Theatre within the Parramatta CBD as a structure expected to experience a settlement impact of up to 25mm.</p> <p><b>Section 12.7.1 and Table 12-7:</b> Identifies all heritage structures within the vicinity of the Parramatta CBD to experience impacts from the delivery of Sydney Metro Works (including as applicable, Direct, potential direct, and indirect impacts).</p> <p><b>EIS Chapter 18</b></p> <p><b>Section 18.6.1:</b> Identified that construction of some underground sections of Stage 1 may potentially induce ground movement at the surface and below ground which could include ground settlement and lateral movement.</p> <p><b>Ministers Condition of Approval D63:</b> Noted the following: “Appropriate equipment to monitor areas in proximity of construction sites and the tunnel route during construction must be installed with particular reference to at risk buildings, structures and utilities identified in the condition surveys required by Condition D60 of this schedule and / or geotechnical analysis as required...”.</p>	<p>The installation of Prisms for settlement monitoring in accordance with the EIS and MCoA D63 on heritage structures not identified in the EIS for any impact (potential direct, direct or indirect) would result in temporary impacts not initially assessed in the Approved Project.</p> <p>This Environmental Review has therefore been prepared to identify the temporary impacts of installing settlement markers on Club Parramatta located within the buffer zone of the World Heritage Listed item (Parramatta Park and National Heritage Place). It should be noted that Club Parramatta has no built heritage significance, however given its location, this Environmental Review has been prepared to demonstrate how the impacts proposed by these works would be consistent with the Approved Project.</p>

### 3. Environmental review

The following table provides a risk review of the potential environmental impacts of the proposed works.

Table 3 Environmental review

Environmental review	Yes / No	Description of impacts (including consideration of safeguards required by the Approved Project)
Is the proposal to take place outside of the construction footprint of the project	Yes	Installation of prisms for settlement monitoring would occur outside the project footprint in accordance with MCoA D63. Installation outside the EIS boundary is assumed, given MCoA requires monitoring of settlement in the vicinity of tunnelling activities, which predominantly resides outside the EIS boundary.
Is the location of works within the existing EPL premise boundary	Yes	The current EPL Boundary would be amended to include the proposed works.
Will the works take longer than 2 weeks to complete.	No	Each individual prism would take no more than 10 minutes to install. However, the installation process across all heritage listed structures would occur over the course of a month.
Does the work require OOHW approval	No	No. All prism installations would occur during standard hours.
Will the works impact an EEC or threatened species	No	No. The proposed works will not impact an EEC or threatened species.
Will works impact on native vegetation	No	No. There would be no impact on native vegetation.
Will the works impact on habitat trees	No	No. There would be no impact on habitat trees.
Will clearing of non-EECs or ground disturbance be of High / moderate condition vegetation. What is the area of impact	No	No. There will be no clearing of non-EEC vegetation or ground disturbance of high/moderate condition vegetation. Works would be limited to buildings.
Will the works result in medium / high noise or vibration impacts Will noise and vibration impacts on sensitive receivers be greater than that predicted in the EIA	No	No. The installation process would utilise glues approved for use by GLC's Heritage Consultants (Umwelt)
Will the works result in medium/ high air quality impacts	No	No dust or odours are expected to be emitted as part of the proposed works. Therefore, the proposed works are not anticipated to result in medium/high air quality impacts.
Will the activity be located adjacent to or in close proximity to sensitive receivers	Yes	Yes. The proposed works are occurring on structures and buildings located within the Parramatta CBD. These structures and buildings may be occupied, and reside within land zoned as E2, MU1 and RE2 (Commercial Centre, Mixed Use and Public Recreation respectively). Prior to installation, GLC would liaise with the occupiers of the buildings.
Will works impact on an Aboriginal / European heritage site different to that predicted in the EIA	Yes	Settlement markers would be installed on Parramatta Club, located within the buffer zone of the World heritage listed Parramatta Park. Impacts would be temporary in nature and

		would not result in any significant impacts given the method of attachment would be via heritage consultant (Umwelt) approved adhesives. No Aboriginal heritage sites have been identified in the area.
Are works within 10m of a watercourse	No	No. Works are not within 10m of a watercourse.
Are works in an area of known contamination	No	No. No soil disturbance is required for the proposed works.
Will the works result in temporary or long-term traffic impacts	No	No. no traffic impacts are anticipated for the proposed works as it does not require any lane closures or traffic adjustments.
Will the works result in visual impacts to sensitive receivers	Yes	Yes. The installation of prisms would introduce a temporary visual impact. However, the appearance of these prisms in the context of Parramatta's visual landscape would be negligible. This is considering the volume of advertisements, presence of other ongoing construction and the operation of businesses that dominates Parramatta CBD's landscape. Further, GLC will utilise the grey settlement markers where feasible given their more discrete appearance so as not to cause unnecessary visual impacts,
Will the works involve significant earthworks	No	No. No earthworks are required for the proposed works.



Figure 1 - depicts the style and size of the settlement markers.



Figure 2 – Indicative locations (red dots) for where settlement markers would be installed on Club Parramatta.



Figure 3 – Location of Club Parramatta in the context of the Heritage zone.

## 4. Recommendation

Based on the above assessment, and with reference to Sydney Metro Concept and Stage 1 Environmental Impact Assessment, Submission Report, Amendment Report and Modifications 1, 2, 3, 4, 5 and 6 including the conditions of approval and associated CEMP and plans, it is recommended that:

<b>X</b>	The proposed design/construction change is consistent with the Approved Project Sydney Metro Concept and Stage 1 Environmental Impact Assessment, Submission Report, Amendment Report and Modifications 1, 2, 3, 4, 5 and 6 including the conditions of approval, has negligible impacts on the community and environment and no further assessment is required.
	The proposed design/construction change is likely to be consistent with the Approved Project Sydney Metro Concept and Stage 1 Environmental Impact Assessment, Submission Report, Amendment Report and Modifications 1, 2, 3, 4, 5 and 6 however more than a negligible impact on the community and environment may result and further assessment in the form of a Planning Approval Consistency Assessment form is required to be completed and submitted to the Planning team for the proposed design/ construction change.
	The proposed design/ construction change is not substantially the same as the Approved Project and is considered a radical transformation. A new planning pathway should be considered.

## 5. Certification

The above information provides a true and fair review of the proposed works.

**Prepared by (signed):**



**Date:** 19/12/2024

**Name:** Hussain Nilar

**Position:** GLC Senior Environmental Approvals Advisor



## 6. Endorsement

I have reviewed the above review and provide the following endorsement:

X

✓	The proposed design/construction change is consistent with the Project Sydney Metro Concept and Stage 1 Environmental Impact Assessment, Submission Report, Amendment Report and Modifications 1, 2, 3, 4, 5 and 6, has negligible impacts on the community and environment and no further assessment or modification of the planning approval is required.
X	The proposed design/construction change is likely to be consistent with the Project Sydney Metro Concept and Stage 1 Environmental Impact Assessment, Submission Report, Amendment Report and Modifications 1, 2, 3, 4, 5 and 6, however more than negligible impacts are expected on the community and environment and further assessment is required.
X	The proposed design/construction change constitutes a project modification and requires further assessment and approval.

This endorsement is conditional on the following:

1. All works will be carried out in accordance with the Project Sydney Metro Concept and Stage 1 Environmental Impact Assessment, Submission Report, Amendment Report and Modifications 1, 2, 3, 4, 5 and 6 and the Project Conditions of Approval.
2. All works will be carried out in accordance with the approved Construction Environmental Management Plan and any relevant sub plans.
3. All works will be carried out in accordance with any additional management measures identified in the Environmental Review, unless otherwise noted by this endorsement.

<b>Comments (if any):</b>	None
<b>Signed:</b>	
<b>Endorsed by:</b>	Ashe Earl-Peacock, A/Director Planning Approvals
<b>Date:</b>	20/12/2024

