

Central Barangaroo – Early Works

Construction Soil and Water Management Sub-plan (CSWMP)



Prepared for Aqualand

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Document Information

Prepared by
Enspire Solutions Pty Ltd
Level 7, 54 Miller Street
North Sydney NSW 2060
ABN 71 624 801 690

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1 Introduction

This Soil and Water Management Plan (CSWMP) has been prepared by Enspire Solutions (Enspire) for the Phase 0 Central Barangaroo Early works to meet the requirements of:

- The City of Sydney Council (CoS)
- Development Consent Application: SSD-39587022
- Development Consent Application: SSD-46922214

1.1 Purpose

This report has been prepared by Enspire Solutions (Enspire) as a sub-plan to the Construction Environmental Management Plan (CEMP) that has been prepared by Aqualand.

This CSWMP has been developed to act as a sub-plan to address Condition C13 in the Development Consent provided by the Minister for Planning and Public Spaces (Application No. SSD-46922214, file: EF22/10392). The conditions require the CSWMP to address the following:

- Describe all erosion and sediment controls to be implemented during construction
- Provide a plan of how all construction works will be managed in a wet-weather event (ie. Storage of equipment, stabilisation of the Site).
- Detail all off-site flows from the site
- Describe the measures that must be implemented to manage stormwater and flood flows for small and large sized events, including, but not limited to 1 in 1-year ARI, 1 in 5-year ARI and 1 in 100-year ARI.

1.2 Scope

The development involves the construction of seven new buildings, with five of those expected to be between seven or eight storeys, with the Retail/Food and Beverage building (Building 7) being 4 storeys and the hotel (Building 6) up to 10 storeys. The buildings will share a three-level basement, which includes two levels of car parking accessed from Hickson Road.

Development approval has been received for Early Works Phase 0, the scope of works required for this phase involve the following:

- Site Establishment (site compound, temporary services, parking etc)
- Adjustment to hoardings and fencing
- Archaeological test pit investigations & salvage excavation
- Capping beam demolition
- Temporary stormwater diversion
- Piling mat construction

The Early Works Phase 0 scope is presented in *Figure 1* and *Figure 2*.

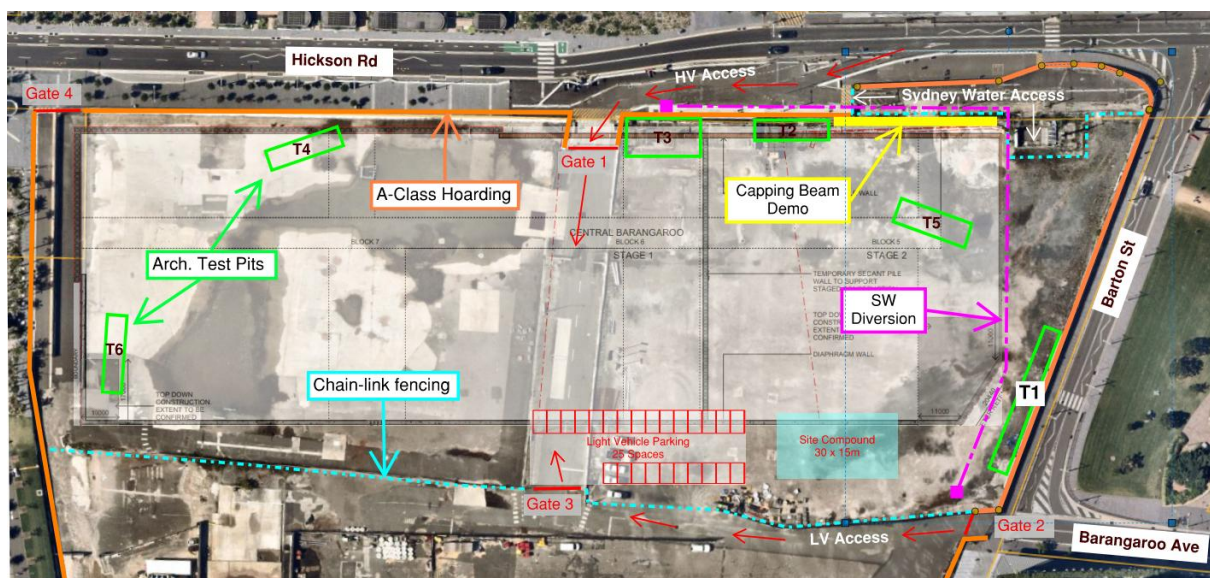


Figure 1 - Site establishment and Archaeological Test Trenches

Provided by Aqualand

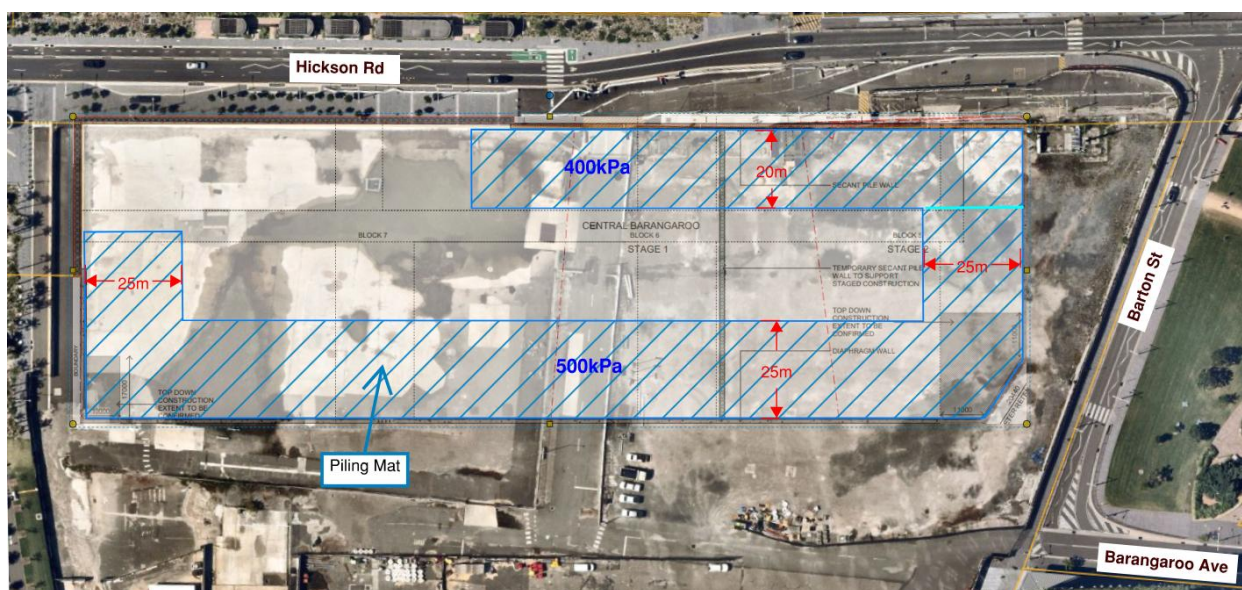


Figure 2 - Piling Matt Locations

Provided by Aqualand

2 Objectives

The key objectives of the CWSMP are to:

- Describe all erosion and sediment controls to be implemented during construction
- Provide a plan of how all construction works will be managed in a wet-weather event (i.e. Storage of equipment, stabilisation of the site).
- Detail all off-site flows from the site
- Describe the measures that must be implemented to manage stormwater and flood flows for small and large sized events, including, but not limited to 1 in 1-year ARI, 1 in 5-year ARI and 1 in 100-year ARI.

3 Sediment and Erosion Control

The objectives of the erosion and sediment control for the development site are to ensure:

- Adequate erosion and sediment control measures are applied prior to the commencement of construction and are maintained throughout construction; and
- Construction site runoff is appropriately treated in accordance with The City of Sydney Council requirements.

As part of the works, the erosion and sedimentation control will be constructed in accordance with Council requirements and the NSW Department of Housing Manual, "Managing Urban Stormwater Soil & Construction" 2004 (Blue Book) prior to any earthworks commencing on site.

3.1 Sediment and Erosion Control Measures

Prior to any works commencing on site, sediment and erosion control measures will be implemented generally in accordance with the Construction Certificate drawings and the "Blue Book". The measures shown on the drawings are intended to be a minimum treatment only as the contractor will be required to modify and stage the erosion and sedimentation control measures to suit the construction programme, sequencing and techniques, as well as the weather conditions at the time. These measures will include:

- A temporary site security/safety fence constructed around the site
- Dust control measures including covering stockpiles, installing fence hessian and watering exposed areas
- Sediment fencing to the perimeter of the site and works areas
- Placement of gravel inlet filters around stormwater inlet pits
- Temporary construction exit at the construction vehicle entry/exits as per Council specification
- Stockpiled material, including topsoil, will be located as far away as possible from any associated natural watercourses or temporary overland flow paths. Sediment fences shall be installed to the downstream side of stockpiles and any embankment formation
- Other impending soil and water contaminants should be reported to the site supervisor and recorded to implement safe and proper mitigation measures for effective performance

The above works are presented on the soil erosion and sediment control plan prepared by Enspire (240100-00-EWCC-C03.01 EROSION AND SEDIMENTATION CONTROL PLAN-C03.01"). The controls will adhere to the plan and be updated and reviewed frequently by the contractor.

4 Wet weather site management

The contractor must monitor upcoming weather and implement actions to prevent sediment laden runoff from leaving the site untreated. Using daily weather updates from the Bureau of Meteorology provides information to construction personnel with purpose of implementing productive operations in case of wet weather conditions. The table below indicates the measures taken in wet weather conditions.

Table 1 - Wet Weather Site Management

Description	Action
Storage of Equipment	Sufficient storage capacity is available in the event of wet weather conditions which will include: - Controls are correctly in place and maintained - Sheds and containers will be placed in existing handstand pavements
Stabilisation of the site	- Rumble bar cattle grid is to be installed as the indicative stabilised site accessway for all construction workers driving into site. This ensures that soil will not attach onto truck wheels and end up on public roads - Stockpiles will be covered when not in use

5 Disposal of Seepage and Stormwater

As a requirement of the development application (SSD-39587022), the following criteria is required to be achieved:

- Any seepage or rainwater collected on-site during construction or groundwater must not be pumped to the street stormwater system unless separate prior approval is given by the NSW EPA in accordance with the Protection of the Environment Operations Act 1997.
- Adequate provisions must be made to collect, treat (as required), and discharge stormwater drainage during construction of the development. Prior written approval of Council must be obtained to connect or discharge site stormwater to Council's stormwater drainage system or street gutter, including confirmation that the discharge would meet Council's water quality requirements.
- A separate written approval from Council is required to be obtained in relation to any proposed discharge of groundwater into Council's drainage system external to the site, in accordance with the requirements of section 138 of the Roads Act 1993.
- Contaminated groundwater must not be discharged into the Council's stormwater drainage system. Options for the disposal of groundwater include disposal to sewer with prior approval from Sydney Water or off-site disposal by a liquid waste transporter for treatment/ disposal to an appropriate waste treatment/ processing facility.

To satisfy the above requirements, the following measures will be implemented, in accordance with NSW Managing Urban Stormwater: Soils and Construction – Volume 1 (Blue Book) and Soil Erosion and Sediment Control Plan prepared by Enspire (240100-00-EWCC-C03.01 EROSION AND SEDIMENTATION CONTROL PLAN-C03.01):

- Runoff from undisturbed areas of the site will be treated via either sediment fences at the boundary or and/or mesh and gravel inlet filters prior to entering the temporary stormwater diversion or existing stormwater system. Any ponded water within existing low points or excavations will be pumped out and treated through a temporary on-site filtration system, as per Figure 3.

- If disturbed areas on the site exceed 2500m², a sediment basin will need to be implemented to capture all site runoff for treatment prior to discharge into the temporary stormwater diversion system. The sediment basin will consist of an appropriately sized settling and sediment zones and include an overflow weir to control overflows for rainfall events in excess of the design criteria.
- All runoff or pumped stormwater leaving the site must comply with the water quality requirements of the Blue Book and Council.

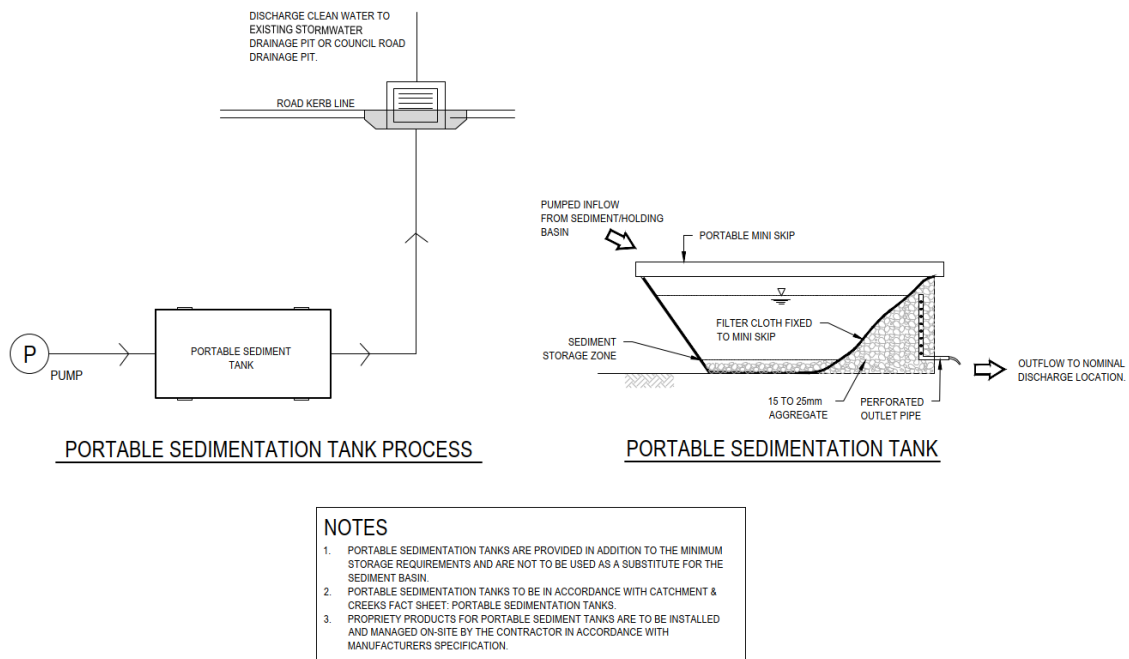


Figure 3 – Example Portable Sedimentation Tank

6 Stormwater and Flood Management

In accordance with Blue Book sediment and erosion controls are typically designed for 10% AEP storm event. The temporary stormwater diversion system proposed for Hickson Road, has been designed to convey upstream catchment runoff around the subject site up to and including the 10% AEP storm event.

For storm event in excess of this, upstream catchment runoff will impact the site and be directed overland through the development. To minimise impact on site works, overland flow and flooding, will be diverted around disturbed areas where possible.

7 Conclusion

This CSWMP identifies that the key objective and associated control measures that will be implemented to control sediment and erosion during the Ealy Work Phase 0 construction scope to limit impact on downstream properties and waterways in accordance with the. NSW Department of Housing Manual, “Managing Urban Stormwater Soil & Construction” 2004 (Blue Book.