

# Hydraulic Services Strategy Report

## Cricket NSW Centre of Excellence

### Cricket NSW

Revision 01  
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## Revision Information

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## Revision Schedule

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## 1 Executive Summary

This report addresses key hydraulic design considerations and parameters for the new Cricket NSW Centre of Excellence at Wilson Park, within Sydney Olympic Park.

Hydraulic Services Strategy Report seeks to address the requirements of the Planning Secretary's Environmental Assessment Requirements (SEARs) as follows:

- to identify the existing infrastructure on-site and any possible impacts of the construction and operation of the proposed works on this infrastructure.
- to address the existing capacity of the site to service the development and any augmentation requirements for utilities, including arrangements for drinking water, waste water and recycled water, including staging of infrastructure and additional licence/approval requirements in consultation with relevant agencies.

In Summary, this report identifies the existing surrounding authority mains capacities and defines the strategy for the new water, sewer and gas connections.

This report should be read in conjunction with the current set of architectural drawings and other consultant reports sent through this application.

## 2 Introduction

This report supports a State Significant Development Application (SSDA) submitted to the Minister for Planning and Public Spaces, pursuant to Part 4.7 of the *Environmental Planning and Assessment Act 1979* (EP&A Act). This SSDA seeks consent for the design, construction and operation of the New South Wales Cricket Centre (NSWCC) at Wilson Park, within Sydney Olympic Park.

The NSWCC will comprise a state-of-the-art, dedicated, year-round cricket, training and administration facility that services both regional and metropolitan cricketers, as well as providing facilities for aspiring junior cricketers to support sport, social, health and educational programs.

## 3 Background

Given the redevelopment and closure of Sydney Football Stadium and its associated cricket training facilities, Cricket NSW decided to relocate its facilities to Sydney Olympic Park. The Wilson Park site has therefore been selected as the appropriate location for the development.

Wilson Park is a former gasworks site, today being used predominantly as playing fields with mature trees generally located around the peripheries. The site has a landfill leachate treatment plant located to its north-east, sharing the same boundary with the site.

## 4 Site Description

The site is located at Wilson Park, in the suburb of Sydney Olympic Park, within the Parramatta Local Government Area (LGA) and is situated at the north western corner of the Sydney Olympic Park (SOP) precinct.

The site is located in proximity to a number of regionally significant facilities and amenities including the Olympic Park Railway Station, ANZ Stadium, Qudos Bank Arena and Sydney Showground, which are

all approximately 2.5km south east of the site. Further to this, the site is located approximately 2km west of Wentworth Point.

The site's locational context is shown in **Figure 1** below.

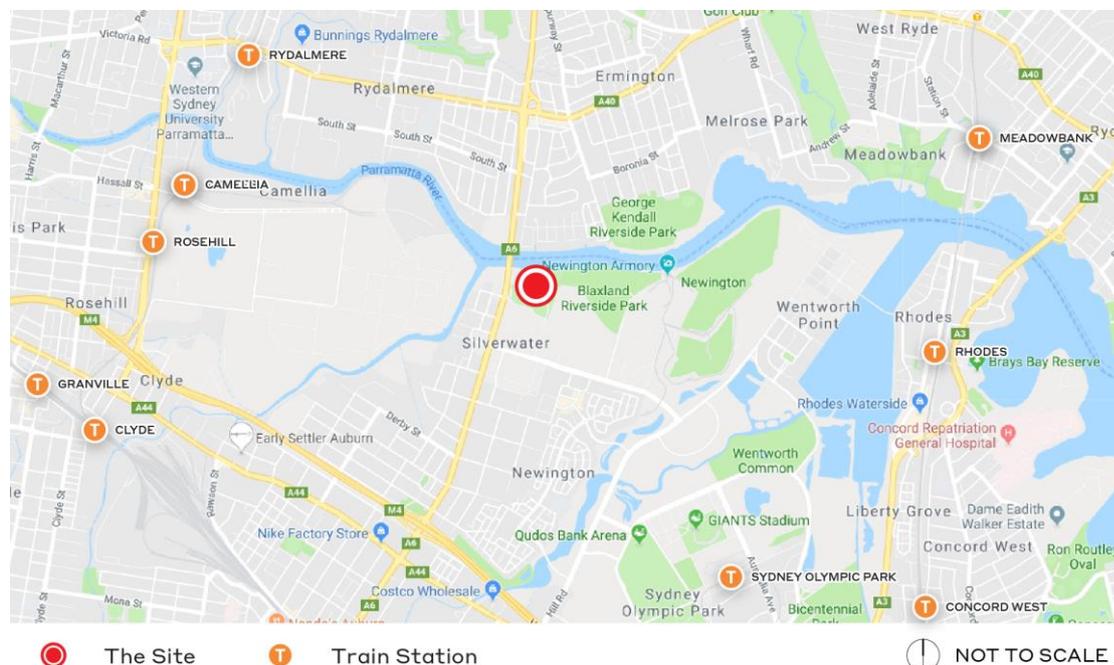


Figure 1 Locational context

The site is irregular in shape and comprises a single allotment of land with an area of 121,082m<sup>2</sup> and a leased area where development will occur with a site area of 65,767m<sup>2</sup>. The leased area excludes the portion of the Wilson Park site that is used for remediation purposes, as shown in the aerial image of the site provided at **Figure 2**. The site is currently owned by the Sydney Olympic Park Authority (SOPA) and it is legally described as Lot C in DP 421320. The site is bounded by the Parramatta River to the north, Silverwater Correctional Complex to the east, a busway and industrial lands to the south and Silverwater Road to the west.



Figure 2 Site aerial

## 5 Overview of Proposed Development

The proposal relates to a development application to facilitate the development of a Cricket Centre of Excellence for Cricket NSW at the Wilson Park site. Specifically, the works that are proposed for the DA include:

- A two storey cricket centre, including an internal atrium, gymnasium, community facilities, sports science and sports medicine facilities and business offices;
- An International Cricket Council compliant oval 136m long x 144m wide (16,040m<sup>2</sup>)(Oval 1) and associated seating;
- A second oval (Oval 2) that complies with the Cricket Australia community guidelines for community club cricket (with a minimum diameter of 100m (6365m<sup>2</sup>);
- Outdoor practice nets, 71 wickets with a minimum of 30m run ups;
- A double height (10.7m) indoor training facility with 15 wickets;
- A single storey shed for machinery and storage;
- Associated car parking, landscaping and public domain works; and
- Extension and augmentation of services and infrastructure as required.

## 6 Planning Approvals Strategy

The site is located within the Sydney Olympic Park precinct, which is identified as a State Significant site in Schedule 2 of State Environmental Planning Policy (State and Regional Development) 2011. As the proposed development has a capital investment value exceeding \$10 million, it is declared to be State Significant Development (SSD) for the purposes of the EP&A Act, with the Minister for Planning and Public Spaces the consent authority for the project.

This SSDA seeks approval for the detailed scope of development described in Section 4.0 above.

The Department of Planning, Industry and Environment provided the Secretary's Environmental Assessment Requirements (SEARs) to the applicant for the preparation of an Environmental Impact Statement for the proposed development on 23 July 2019. This report has been prepared having regard to the SEARs as relevant.

## 7 The existing on-site infrastructure and impacts of the construction and operation of the proposed works on this infrastructure



Figure 3 Site Boundary

1 – Site Boundary

Hydraulic services currently serving the areas and the buildings that are inside the Site Boundary but will be outside the Cricket NSW Lease area will keep their existing connections to the Authority infrastructure.

Any existing pipework serving those areas currently reticulating through the future Lease area (2; magenta solid hatch) will be diverted as a part of the early works to allow for the interrupted operation of all buildings and areas outside the Cricket NSW Lease area.

## 2 – Development Site Boundary/Lease Boundary

New Sewer, Potable water and Gas Connections for the proposed development will be provided from Silverwater road (3).

## 8 Gas connection

Proposed building will be connected to the existing authority (Jemena) Gas main located in Silverwater Road.

Regulator and meter set will be located in the Gas meter room.

Refer to the drawing 19049-H010 Hydraulic Services Site Plan – Early Works and Staging for the final Gas authority connection.



Figure 4 New development will be connected to the Existing 100 mm Jemena 1050 kPa Gas main

## 9 Water (Potable and Fire) Connection

Sydney Water DBYD shows an existing 150ømm main (A; Figure 4) reticulating on the Western side of Silverwater road.

A new potable and fire services connection will be required to service the new development.

Refer to the drawing 19049-H010 Hydraulic Services Site Plan – Early Works and Staging for the final Water authority connection.

## 10 Sewer Connection

Sydney Water DBYD shows an existing 225ømm main (B) reticulating on the Western side of Silverwater road.

Sewer services from level higher than the levels of the existing authority main will be connected by gravity and sewer from the lower levels will be pumped out towards the gravity lines.

In ground grease arrestor will be installed to cater for the trade waste purification process.

Refer to the drawing 19049-H010 Hydraulic Services Site Plan – Early Works and Staging for the final Sewer authority connection.



Figure 5 Sydney Water – Water and Sewer Connections

## **11 Appendix**

### **11.1 Hydraulic Services Site Plan – Early Works and Staging**

