

# Sydney Metro North West

Design and Construction of Surface  
and Viaduct Civil Works



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## Environmental Monitoring Data

Environment Protection Licence No. 20454

August 2016

### Document Approval

| <b>Doc No</b> Environmental Monitoring Data August 2016 |                        |             |             |               |            |
|---|------------------------|-------------|-------------|---------------|------------|
| Revision  | Description            | Prepared by | Reviewed by | Approved by   | Date       |
| 1.0   | Issued for publication | J. Burgin   | B.Tucker    | G. Perdikarus | 05/09/2016 |

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### 1.0 Introduction

The North West Rail Link is Australia's largest public transport infrastructure project and a priority rail project for the NSW Government. The Impregilo Salini Joint Venture (ISJV) has been contracted to design and construct the viaducts, bridges and associated civil works required for the NWRL between Bella Vista and Cudgong Road.

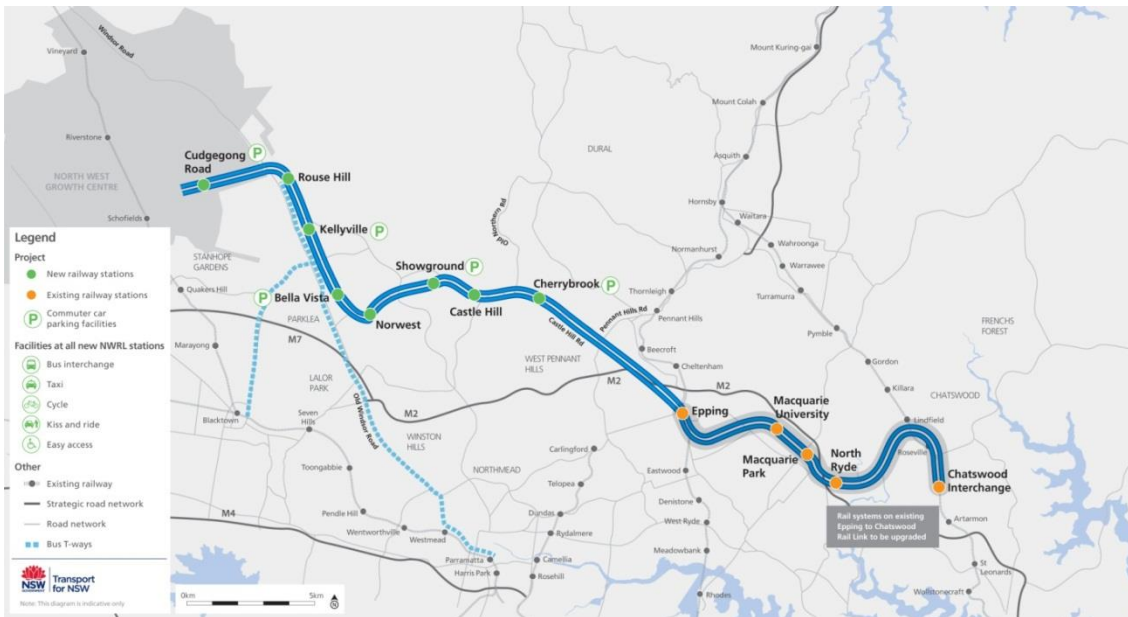


Figure 1: Project overview

### 2.0 Environmental Protection Licence and Reporting Requirements

The *Protection of the Environment Operations Act 1997* (POEO Act) requires holders of environment protection licences (EPLs) to make pollution monitoring data required by the EPL publicly available.

Salini Australia Pty. Ltd. holds EPL No. 20454 from the NSW Environment Protection Authority for the SVC Works on behalf of ISJV. The licence is for construction works relating to Rail Systems Activities as defined under Schedule 1 of the POEO Act.

Condition M2 of the EPL requires monitoring the concentration of total suspended solids, pH and visible oil and grease in waters discharged from sediment basins on the premises. The full licence can be viewed on the EPA website at:

<http://epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=41738&SYSUID=1&LICID=20454>

### 3.0 Discharge Water Monitoring

Water monitoring results for water discharged from sediment basins during the reporting period are summarised in Table 1. All results were compliant with the Environment Protection Licence.

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Surface and Viaduct Civil Works



**Table 1: Water Monitoring Data**

Data for month: August 2016

Published on: 5 September 2016

| Date of Discharge | EPL Basin ID | Approx. Chainage | TSS (mg/L) | *NTU  | pH (unit) | Oil and Grease (visibility) | Compliant (Yes/No) |
|-------------------|--------------|------------------|------------|-------|-----------|-----------------------------|--------------------|
| 5/8/16            | SB1          | 42340            | NT         | 40.3  | 8.2       | Not visible                 | Yes                |
| 5/8/16            | SB4          | 42150            | NT         | 55.8  | 7.8       | Not visible                 | Yes                |
| 5/8/16            | SB10         | 46300            | NT         | 17.22 | 8.1       | Not visible                 | Yes                |
| 5/8/16            | SB7          | 44810            | NT         | 34.32 | 8.32      | Not visible                 | Yes                |
| 5/8/16            | SB5          | 41900            | NT         | 34.1  | 7.2       | Not visible                 | Yes                |
| 9/8/16            | SB15         | 42840            | NT         | 63.7  | 8.37      | Not visible                 | Yes                |
| 9/8/16            | SB16         | 44225            | NT         | 14.35 | 8.19      | Not visible                 | Yes                |
| 10/8/16           | SB1          | 42340            | NT         | 67.1  | 8.2       | Not visible                 | Yes                |
| 13/8/16           | SB1          | 42340            | NT         | 11.07 | 8.1       | Not visible                 | Yes                |
| 26/8/16           | SB1          | 42340            | NT         | 28    | 8.2       | Not visible                 | Yes                |
| 29/8/16           | SB3          | 46220            | NT         | 15.42 | 7.88      | Not visible                 | Yes                |
| 29/8/16           | SB7          | 44810            | NT         | 34.5  | 8.24      | Not visible                 | Yes                |
| 29/8/16           | SB4          | 42150            | NT         | 31.4  | 7.78      | Not visible                 | Yes                |
| 30/8/16           | SB1          | 42340            | NT         | 28.2  | 8.2       | Not visible                 | Yes                |
| 30/8/16           | SB10         | 46300            | NT         | 21.7  | 7.34      | Not visible                 | Yes                |

**KEY**

| Pollutant   | TSS     | *NTU  | pH        | Oil and grease |
|---|---------|---|-----------|----------------|
| <b>Concentration Limit</b>  | 50 mg/L | 71  | 6.5 – 8.5 | Not visible    |
| N/A = Not Applicable<br>NT = Not Tested<br>mg/L = milligrams per litre<br>TSS = Total Suspended Solids (mg/L) |         | *NTU = Nephelometric Turbidity Units<br><br><i>A correlation graph between TSS and NTU has been established for the site. Using a 25% safety factor, a NTU reading of 71 has been adopted to ensure samples have a TSS below 50mg/L. Quality assurance measures and ongoing verification of the correlation will be used to ensure that this value continues to be an appropriate indicator of TSS.</i> |           |                |