

Sydney Metro North West

Design and Construction of Surface
and Viaduct Civil Works



Environmental Monitoring Data

Environment Protection Licence No. 20454

August 2015

Document Approval

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Revision	Description	Prepared by	Reviewed by	Approved by	Date
1.0	Issued for publication	D. Malysiak	T. Austin	I. Stuart	3 September 2015

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 Impreglio 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 Cudgegong Road.

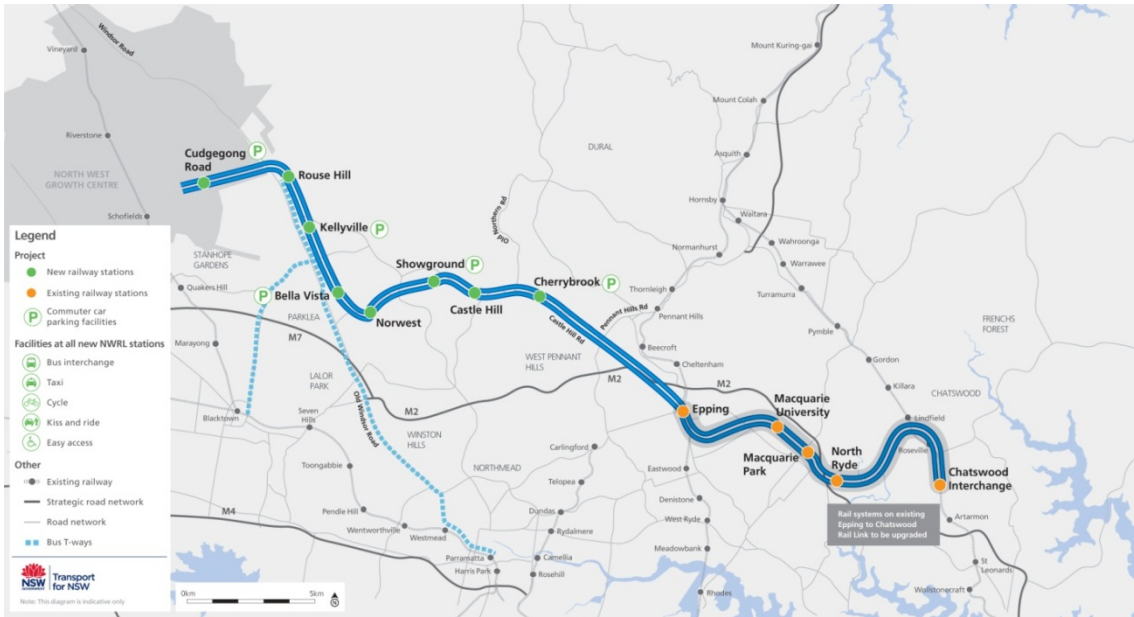


Figure 1: Project overview

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.

Environment Monitoring Data

NWRL – Surface and Viaduct Civil Works



Table 1: Water Monitoring Data

Data for month: August 2015

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Date of Discharge	EPL Basin ID	Approx. Chainage	TSS (mg/L)	*NTU	pH (unit)	Oil and Grease (visibility)	Compliant (Yes/No)
27/8/15	SB2	42420	NT	12.1	7.9	Not Visible	Yes
27/8/15	SB3	46220	NT	21.2	8.2	Not Visible	Yes
27/8/15	SB5	41900	NT	15.4	7.7	Not Visible	Yes
27/8/15	SB6	41760	NT	6.1	7.8	Not Visible	Yes
27/8/15	SB9	44470	NT	14.9	7.6	Not Visible	Yes
27/8/15	SB14	46435	NT	32	8.2	Not Visible	Yes
27/8/15	SB16	44225	NT	30.2	7.8	Not Visible	Yes
28/8/15	SB2	42420	NT	11.7	7.6	Not Visible	Yes
28/8/15	SB5	41900	NT	14.2	7.8	Not Visible	Yes
28/8/15	SB6	41760	NT	6.2	7.7	Not Visible	Yes
28/8/15	SB9	44470	NT	13.2	7.8	Not Visible	Yes
28/8/15	SB16	44225	NT	28.1	7.8	Not Visible	Yes
31/8/15	SB1	42340	NT	4.3	8.4	Not Visible	Yes
31/8/15	SB7	44810	NT	4.8	6.9	Not Visible	Yes
31/8/15	SB10	46300	NT	7.7	8.1	Not Visible	Yes

KEY

Pollutant	TSS	*NTU	pH	Oil and grease
Concentration Limit	50 mg/L	42	6.5 – 8.5	Not visible
N/A = Not applicable NT = Not tested		mg/L = milligrams per litre TSS = Total Suspended Solids (mg/L) *NTU = Nephelometric Turbidity Units <i>A correlation graph between TSS and NTU has been established for the site. Using 50% safety factor, a NTU reading of 42 has been adopted to ensure samples have a TSS below 50mg/L.</i>		