Sydney Metro North West

Design and Construction of Surface and Viaduct Civil Works

Environmental Monitoring Data

Environment Protection Licence No. 20454

December 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	06/01/2016

1.0 Introduction

The Sydney Metro Northwest 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 Sydney Metro Northwest between Bella Vista and Cudgegong Road.

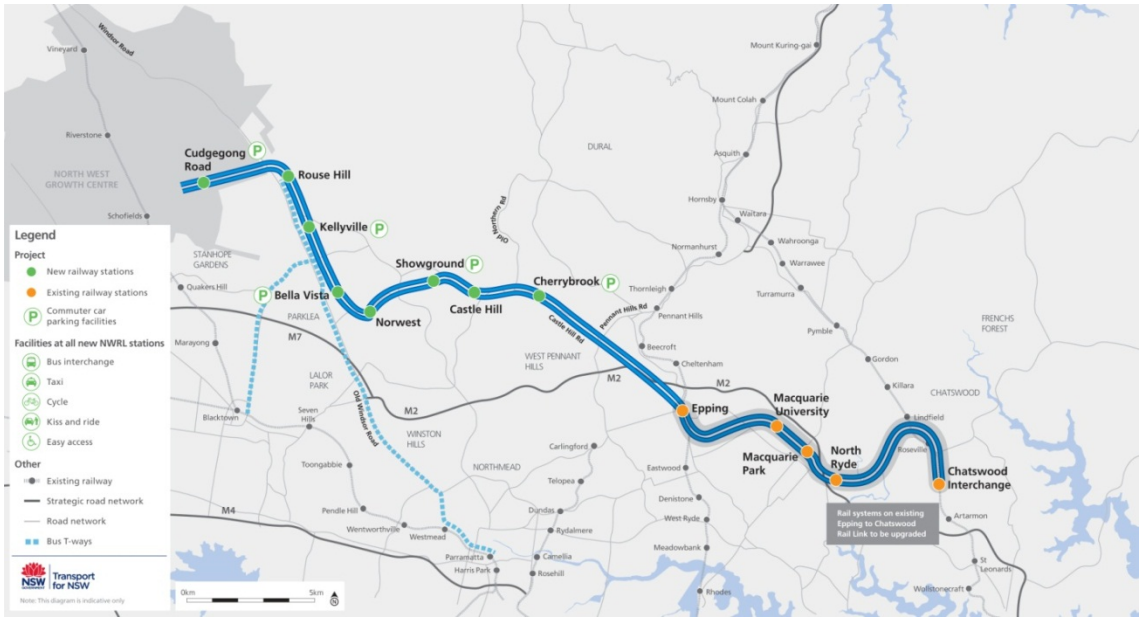

Figure 1: Project overview

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. All results were compliant with the Environment Protection Licence.

Table 1: Water Monitoring Data

Data for month :December 2015 Published on: 6 Jan 2016

Date of Discharge	EPL Basin ID	Approx. Chainage	TSS (mg/L)	*NTU	pH (unit)	Oil and Grease (visibility)	Compliant (Yes/No)
17/12/15	SB10	46300	NT	39.7	8.40	Not Visible	Yes
17/12/15	SB13	46385	NT	25.1	8.39	Not Visible	Yes
18/12/15	SB1	42340	NT	31.7	8.10	Not Visible	Yes
23/12/15	SB3	46220	NT	23.4	8.05	Not Visible	Yes
23/12/15	SB7	44810	NT	39.2	8.49	Not Visible	Yes
23/12/15	SB9	44470	NT	32.3	7.98	Not Visible	Yes
23/12/15	SB10	46300	NT	20.7	8.32	Not Visible	Yes
24/12/15	SB13	46385	NT	9.7	8.10	Not Visible	Yes
24/12/15	SB14	46435	NT	17.4	7.93	Not Visible	Yes
24/12/15	SB16	44225	NT	8.1	7.98	Not Visible	Yes
29/12/15	SB1	42340	NT	35.5	8.45	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

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.